

### **REMEDIATION SUMMARY & SOIL CLOSURE REQUEST**

Property:

REGENCY FIELD SERVICES LLC. L-5 TO MF Historical Release Site Lea County, New Mexico Unit Letter "O", Section 15, Township 21 South, Range 37 East Latitude 32.472081, Longitude -103.151236 NMOCD Reference # 1RP-2185

> October 2014 Apex Project No. 7030714G023

> > Prepared for:

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

Prepared by:

1/2

Thomas Franklin Project Manager

Tim Reed

Tim Reed Senior Technical Review



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Initial and Final C-141



### **CLOSURE REQUEST**

### REGENCY FIELD SERVICES LLC. L-5 TO MF Historical Release Site Lea County, New Mexico Unit Letter "O", Section 15, Township 21 South, Range 37 East Latitude 32.472081, Longitude -103.151236 NMOCD Reference # 1RP-2185

### Apex Project No. 7030714G023

### 1.0 INTRODUCTION

### 1.1 Site Description & Background

Apex TITAN, Inc. (Apex) has prepared this Closure Request for the Regency Field Services, LLC (Regency) L-5 Pipeline as the result of a crude oil release (referred to hereinafter as the "Site" or "subject Site"). Remedial actions were reportedly conducted in accordance with New Mexico Energy, Minerals, and Natural Resources Department (EMNRD), Oil Conservation Division (NMOCD) rules (*NMAC 19.15.29 Release Notification*) and the NMOCD *Guidelines for Remediation of Leaks, Spills and Releases* as guidance.

The L-5 to MF is located off County Road (CR) 38, also referred to as Jones City Road, north of Eunice, New Mexico (GPS 32.472081, -103.151236). On January 7, 2009, a leak of greater than fifty (>50) million cubic feet (Mcf) of natural gas and greater than five (>5) barrels of oil was discovered. According to documentation, the release was reported by the operator at the time, Southern Union Gas, to the New Mexico Oil Conservation Division (NMOCD) on March 3, 2009. The NMOCD C-141 form indicated the release affected approximately one thousand, three hundred and forty square feet (1,340 ft<sup>2</sup>). Regency Field Services, LLC. has subsequently acquired this pipeline.

The previous remedial activities were reportedly conducted by an unknown environmental consultant and by Basin Environmental Service Technologies, LLC. (Basin). This Closure Request is solely based upon the interpretation of the data provided.

### 1.2 **Project Objective**

The objective of the Closure Report is to present documentation of the activities that were performed to date and to request closure of the site.

### 1.3 Standard of Care

Apex's services will be performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period.

Apex makes no warranties, express or implied, as to the services performed hereunder. Additionally, Apex does not warrant the work of third parties supplying information used in the report (e.g. laboratories, regulatory agencies, or other third parties). This scope of services will be performed in accordance with the scope of work agreed with the client.

## 1.4 Reliance

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

## 2.0 SITE RANKING & PROPOSED REMEDIAL ACTION GOALS

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

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

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

Based on Apex's evaluation of the scoring criteria, the Site would have a Total Ranking Score of 20. This ranking is based on the following:

• The depth to the initial groundwater-bearing zone is <50 feet at the Site.

- The impacted area is greater than 200 feet from a private domestic water source.
- Distance to the nearest surface water body is greater than 1,000 ft.

Based on a Total Ranking Score of 20, cleanup goals for soils remaining in place include: 10 milligrams per kilogram (mg/Kg) for benzene, 50 mg/Kg for total benzene, toluene, ethlybenzene and xylene (BTEX), 100 mg/Kg for Total Petroleum Hydrocarbons (TPH).

### 3.0 INITIAL RESPONSE, EXCAVATION & TREATMENT ACTIVITIES

### 3.1 Initial Response

According to the initial C-141, Southern Union Gas responded to the leaking pipeline. The leak area was excavated and three (3) clamps were installed on the pipeline, no free standing fluids were discovered at that time. There were two areas of impact noted, one area measured approximately ten (10) feet by eighteen (18) feet and the second area measured approximately forty (40) feet by twenty (20) feet. The impacted soils were identified through surface staining in an area approximately one thousand, three hundred and forty square feet (1,340 ft<sup>2</sup>) as shown on Figure 3, Appendix A. The supplied figure was created by Basin Environmental Services.

### 3.2 Excavation

Reportedly, in 2009, approximately 2,904 cubic yards (yd<sup>3</sup>) of impacted soil was excavated from the release site by Basin and transported to the Southern Union Landfarm (Permit # NM-02-0019) for treatment. Copies of the Basin prepared Manifests are included in Appendix D. The final dimensions of the excavation were approximately 120 feet in width, 80 feet in length and 26 feet in depth near the center. Further excavation was determined to be unsafe and impracticable given the risks associated with the depth of the excavation and the proximity of the floor of the excavation to groundwater.

### 3.3 Excavation Confirmation Soil Sampling Program

Based on the information provided, confirmation soil samples of the excavation were collected by Basin and analyzed for BTEX and TPH. The only exceedance of the NMOCD *Guidelines for Remediation of Leaks, Spills and Releases* (Section VI A. Contaminated Soils, a) were two (2) TPH results of 158 milligrams per kilogram (mg/Kg) and 1,230 mg/kg, in unknown locations.

### 3.4 Groundwater Investigation and Sampling Program

Subsequently, Basin supervised the installation of one monitor well (MW-1) in February, 2013, reportedly in an effort to gain closure on the soil portion of the release site. During the installation of the monitor well, soil samples were collected for BTEX, TPH and chloride. Chloride concentrations above 250 mg/kg were documented at five (5) and ten (10) feet below ground surface (bgs) at 392 mg/kg and 500 mg/kg, respectively, but declined to <250 mg/Kg with depth.

On February 28, 2013, May 9, 2013, September 3, 2013, January 9, 2014 and February 28, 2014, the monitor well was sampled and groundwater samples were submitted to

Xenco Laboratories, Inc., of Odessa, Texas, for analysis of BTEX, total dissolved solids (TDS) and chloride concentrations. Laboratory analytical results indicated BTEX concentrations were less than the laboratory method detection limit (MDL) for each of the submitted groundwater samples, with the exception of benzene at 0.0258 mg/L for the January 9, 2014 sampling event. All of the other sampling events including the February 28, 2014, sampling did not show benzene concentrations above the laboratory MDL. Chloride concentrations ranged from 102 mg/L for the sample collected in February 2013, to 123 mg/L for the sample collected in May 2013.

Currently, there is one (1) groundwater monitoring well (MW-1) on-Site.

### CHEMCIALS OF CONCERN (COCS)

Groundwater samples collected from the monitoring well have historically been analyzed for chloride and BTEX by EPA Methods E300 and SW846-8021B, respectively. To date no phase-separated hydrocarbons (PSH) have been identified in the monitoring well and none of the results have shown chloride impact to groundwater. With the exception of one sampling event on January 9, 2014, no BTEX concentrations have exceeded the New Mexico Water Quality Control Commission (WQCC) standards. The WQCC standard for BTEX and chloride is benzene at 0.01 mg/L, toluene at 0.75 mg/L, ethylbenzene at 0.75 mg/L, total xylenes at 0.62 mg/L and chloride at 250 mg/L, respectively. Copies of tables provided by Basin, inclusive of the previously reported sampling is included in Appendix B.

## 4.0 LABORATORY ANALYTICAL METHODS

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

### 5.0 SITE RESTORATION / CLOSURE REQUEST

Based upon the data provided, the site was subsequently backfilled and restored. MW-1 was installed to confirm that there was not a chloride or BTEX impact to the groundwater at this site. Laboratory analytical results for five (5) sampling events confirmed that there was not a chloride impact to groundwater. The laboratory analytical results indicated that BTEX concentrations were less than the laboratory MDL for each of the submitted groundwater samples, with the exception of benzene at 0.0258 mg/L for the January 9, 2014 sampling event. Based upon the data presented and the work performed at this site, Regency respectfully requests closure of this site. Upon approval from the NMOCD, the monitor well will be properly plugged by a licensed water well driller. Copies of the Initial and Final C-141 are provided in Appendix E.



APPENDIX A

Figures





Southern Union Gas services L-5 to MF NMOCD Ref RP-2184 Lea County, New Mexico



Apex TITAN, Inc. 505 N. Big Springs Street, Suite 301A Midland, Texas 79701 Phone: (432) 695-6016 www.apexcos.com A Subsidiary of Apex Companies, LLC FIGURE 2 Site Vicinity Map 2014 Aerial Photograph Source: Google Earth





APPENDIX B

Soil Analytical Results Groundwater Analytical Results

#### TABLE 1

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

#### SOUTHERN UNION GAS SERVICES L-5 TO MF HISTORICAL RELEASE SITE LEA COUNTY, NEW MEXICO NMOCD REF# 1RP-2185

					METHOD: EF	PA SW 846-80	21B, 5030		ME	THOD: 801	5M	TOTAL	METHOD: E300.0
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 C <sub>6</sub> -C <sub>28</sub> (mg/Kg)	CHLORIDE (mg/Kg)
B.S	N/A	3/30/2009	N/A	-	-	-	-	-	-	-	-	-	<16
PR @ 19'	19'	3/30/2009	N/A	<0.050	<0.050	<0.050	<0.030	<0.050	-	-	-	-	-
PR @ 26'	26'	4/22/2009	N/A	<0.050	<0.050	<0.050	<0.030	<0.050	<10.0	158	-	158	
WW-Comp.	N/A	4/29/2009	N/A	-	-	-	-	-	<10.0	65.6	-	65.6	-
SW-Comp.	N/A	4/29/2009	N/A	-	-	-	-	-	<10.0	15.6	-	15.6	
EW-Comp.	N/A	4/29/2009	N/A	-	-	-	-	-	<10.0	79.9	-	79.9	
NW-Comp.	N/A	5/4/2009	N/A						<10.0	1,230	-	1,230	-
2-EW-Comp.	N/A	5/4/2009	N/A	-	-	-	-	-	<10.0	80.0	-	80.0	-
2-WW-Comp.	N/A	5/4/2009	N/A	-	-	-	-	-	<10.0	<10.0	-	<10.0	-
NW-Comp.	N/A	5/12/2009	N/A	-	-	-	-	-	<10.0	12.2	-	12.2	
MW-1 @ 5'	5'	2/26/2013	In-Situ	<0.00105	<0.00209	<0.00105	<0.00105	<0.00209	<15.7	53.9	<15.7	53.9	392
MW-1 @ 10'	10'	2/26/2013	In-Situ	-	-	-	-	-	<16.2	19.8	<16.2	19.8	500
MW-1 @ 15'	15'	2/26/2013	In-Situ	-	-	-	-	-	<16.6	<16.6	<16.6	<16.6	133
MW-1 @ 20'	20'	2/26/2013	In-Situ	<0.00110	<0.00220	<0.00110	<0.00110	<0.00110	<16.6	<16.6	<16.6	<16.6	53.4
MW-1 @ 25'	25'	2/26/2013	In-Situ	-	-	-	-	-	<16.1	<16.1	<16.1	<16.1	15.1
MW-1 @ 30'	30'	2/26/2013	In-Situ	-	-	-	-	-	<15.9	<15.9	<15.9	<15.9	20.1
MW-1 @ 35'	35'	2/26/2013	In-Situ	<0.00107	<0.00213	<0.00107	<0.00107	<0.00107	<16.0	<16.0	<16.0	<16.0	17.6
NMOCD Standard				10				50				100	250

- = Not analyzed.

#### TABLE 2

## CONCENTRATIONS OF BENZENE, BTEX, CHLORIDE & TDS IN GROUNDWATER

#### SOUTHERN UNION GAS SERVICES L-5 to MF HISTORICAL RELEASE SITE LEA COUNTY, NEW MEXICO NMOCD REF # 1RP-2185

				METHO	DDS: EPA S	W 846-8021B			SM2540C	EPA 300
SAMPLE LOCATION	SAMPLE DATE	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL- BENZENE (mg/L)	M,P- XYLENES (mg/L)	O-XYLENES (mg/L)	TOTAL XYLENE (mg/L)	TOTAL BTEX (mg/L)	TDS (mg/L)	CHLORIDE (mg/L)
MW-1	02/28/13	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100	675	102
MW-1	05/09/13	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100	-	123
MW-1	09/03/13	< 0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100	-	96.4
MW-1	01/09/14	0.0258	<0.00200	0.00344	0.00444	<0.00100	0.00444	0.0337	-	103.0
MW-1	02/28/14	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100		117.0
NMOCD CRITERIA		0.01	0.75	0.75	TOT	AL XYLENES	0.62			250



APPENDIX C

Laboratory Data Reports & Chain-of-Custody Documents

# Analytical Report 458517

# for Southern Union Gas Services- Monahans

**Project Manager: Joel Lowry** 

## L-5 to MF

## 03-MAR-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)



03-MAR-13

TNI PACCREDUE

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

Reference: XENCO Report No(s): **458517** L-5 to MF Project Address: Lea County, NM

### Joel Lowry:

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) 458517. 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. 458517 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully

Nicholas Straccione Project Manager

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## Sample Cross Reference 458517



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

L-5 to MF

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-1	W	02-28-13 11:00		458517-001



CASE NARRATIVE

Client Name: Southern Union Gas Services- Monahans Project Name: L-5 to MF



Project ID: Work Order Number(s): 458517 Report Date: 03-MAR-13 Date Received: 02/28/2013

Sample receipt non conformances and comments: None

Sample receipt non conformances and comments per sample:

None



**Project Id:** 

## Certificate of Analysis Summary 458517

Southern Union Gas Services- Monahans, Monahans, TX

Project Name: L-5 to MF



Date Received in Lab: Thu Feb-28-13 02:22 pm Report Date: 03-MAR-13

**Contact:** Joel Lowry Project Location: Lea County, NM Project Manager: Nicholas Straccione Lab Id: 458517-001 Field Id: MW-1 Analysis Requested

Analysis Kequestea	Depth:				
	Matrix:	WATER			
	Sampled:	Feb-28-13 11:00			
BTEX by EPA 8021B	Extracted:	Mar-01-13 10:30			
	Analyzed:	Mar-01-13 11:04			
	Units/RL:	mg/L RL			
Benzene		ND 0.00100	)		
Toluene		ND 0.00200	)		
Ethylbenzene		ND 0.00100	)		
m_p-Xylenes		ND 0.00200	)		
o-Xylene		ND 0.00100	)		
Total Xylenes		ND 0.00100	)		
Total BTEX		ND 0.00100	)		
Inorganic Anions by EPA 300/300.1	Extracted:				
	Analyzed:	Mar-01-13 15:19			
	Units/RL:	mg/L RL			
Chloride		102 20.0			
TDS by SM2540C	Extracted:				
	Analyzed:	Mar-01-13 12:00			
	Units/RL:	mg/L RL			
Total dissolved solids		675 25.0			

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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Ch. Nul

Nicholas Straccione Project Manager



# **Flagging Criteria**

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

MDL Method Detection Limit	<b>SDL</b> 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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(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	

Final 1.000



# Form 2 - Surrogate Recoveries

Project Name: L-5 to MF

7 <b>ork Orders :</b> 458517 Lab Batch #: 908039	7, Sample: 458517-001 / SMP	Batcl	Project II h: <sup>1</sup> Matrix							
Units: mg/L	Date Analyzed: 03/01/13 11:04		RROGATE RI		STUDY					
-	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags				
	Analytes			[D]						
1,4-Difluorobenzene		0.0289	0.0300	96	80-120					
4-Bromofluorobenzene		0.0317	0.0300	106	80-120					
Lab Batch #: 908039	Sample: 634479-1-BLK / BI			-						
Units: mg/L	Date Analyzed: 03/01/13 09:10	SURROGATE RECOVERY STUDY								
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags				
1.4-Difluorobenzene		0.0314	0.0300	105	80-120					
4-Bromofluorobenzene		0.0294	0.0300	98	80-120					
Lab Batch #: 908039	Sample: 634479-1-BKS / BI	KS Batcl	h: <sup>1</sup> Matrix	Water	11					
Units: mg/L	Date Analyzed: 03/01/13 08:38		RROGATE RI	ECOVERY S	STUDY					
BTE	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
1,4-Difluorobenzene	Analytes	0.0277	0.0300	92	80-120					
4-Bromofluorobenzene		0.0338	0.0300	113	80-120					
Lab Batch #: 908039	Sample: 634479-1-BSD / BS	SD Batcl	h: 1 Matrix	:Water	· ·					
Units: mg/L	Date Analyzed: 03/01/13 08:54	SU	RROGATE R	ECOVERY S	STUDY					
BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags				
14 D'fluench	Analytes	0.0250	0.0200		00.120					
1,4-Difluorobenzene 4-Bromofluorobenzene		0.0268	0.0300	89 109	80-120 80-120					
					80-120					
Lab Batch #: 908039	Sample: 458187-001 S / MS									
	r	OTT	DDOCATE D							
Units: mg/L	Date Analyzed: 03/01/13 10:15	SU	RROGATE RI	ECOVERYS						
-	X by EPA 8021B	SU Amount Found [A]	RROGATE RI True Amount [B]	Recovery %R [D]	Control Limits %R	Flags				
-	-	Amount Found	True Amount	Recovery %R	Control Limits	Flags				

\* Surrogate outside of Laboratory QC limits

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

\*\*\* Poor recoveries due to dilution

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



# Form 2 - Surrogate Recoveries

Project Name: L-5 to MF

Work Orders: 458517	, ,	Project ID:								
Lab Batch #: 908039	Sample: 458187-001 SD / M	Sample: 458187-001 SD / MSD Batch: 1 Matrix: Water								
Units: mg/L	Date Analyzed: 03/01/13 10:31	SURROGATE RECOVERY STUDY								
BTEX by EPA 8021B Analytes		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags				
1,4-Difluorobenzene	0.0332	0.0300	111	80-120						
4-Bromofluorobenzene		0.0305	0.0300	102	80-120					

\* Surrogate outside of Laboratory QC limits

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

\*\*\* Poor recoveries due to dilution

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





## Project Name: L-5 to MF

Work Order #: 458517	Project ID:										
Analyst: KEB	Da	ate Prepar	ed: 03/01/201	3			Date Ar	nalyzed: 0	3/01/2013		
Lab Batch ID: 908039 Sample: 634479-1-E	BKS			Matrix: V	Vater						
Units: mg/L		BLAN	K /BLANK S	SPIKE / E	BLANK S	SPIKE DUPI	LICATE 1	RECOVE	ERY STUD	Y	
BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00100	0.100	0.0936	94	0.100	0.0997	100	6	70-125	25	
Toluene	<0.00200	0.100	0.0925	93	0.100	0.0973	97	5	70-125	25	
Ethylbenzene	<0.00100	0.100	0.0943	94	0.100	0.0962	96	2	71-129	25	
m_p-Xylenes	< 0.00200	0.200	0.187	94	0.200	0.194	97	4	70-131	25	
o-Xylene	<0.00100	0.100	0.0936	94	0.100	0.0967	97	3	71-133	25	
Analyst: AMB		-	ed: 03/01/201	3				-	3/01/2013		
Lab Batch ID:         908083         Sample:         908083-1-E	BKS	Batc	h #: 1					Matrix: V	Vater		
Units: mg/L		BLAN	K/BLANK S	SPIKE / E	BLANK S	SPIKE DUPI	LICATE I	RECOVE	ERY STUD	Y	
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	<1.00	25.0	24.3	97	25.0	24.7	99	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





## Project Name: L-5 to MF

Work Order #: 458517 Analyst: MTK	<b>Date Prepared:</b> 03/01/2013				Project ID: Date Analyzed: 03/01/2013							
Lab Batch ID: 908093	KS	Batch #: 1 Matrix: Water						Vater				
Units: mg/L		BLAN	K /BLANK S	PIKE / I	BLANK S	PIKE DUPI	ICATE	RECOVE	ERY STUD	Y		
TDS by SM25	540C	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>B</b> ]	[C]	[D]	[E]	Result [F]	[G]				
Total dissolved solids		<25.0	1000	994	99	1000	1040	104	5	80-120	30	

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: L-5 to MF

Work Order #: 458517 Lab Batch #: 908083 Date Analyzed: 03/01/2013 Date	<b>te Prepared:</b> 03/01/2	2013		oject ID: Analyst: Al		
QC- Sample ID: 458508-001 S	Batch #: 1	V /NAA		Matrix: W		
Reporting Units: mg/L	Parent	A / MA.	<b>FRIX SPIKE</b> Spiked Sample		Control	DY
Inorganic Anions by EPA 300 Analytes	Sample Result [A]	Spike Added [B]	Result [C]	%R [D]	Limits %R	Flag
Chloride	1600	2500	4230	105	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: L-5 to MF



Work Order #: 458517						Project II	):				
Lab Batch ID: 908039 Date Analyzed: 03/01/2013	QC- Sample ID: Date Prepared:	03/01/2	013	An	•	KEB	<b>k:</b> Water				
Reporting Units: mg/L		Μ	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA'	TE REC	OVERY	STUDY		
BTEX by EPA 8021B	Parent Sample	Spike	Spiked Sample Result	Sample	Spike	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	
Benzene	< 0.00100	0.100	0.107	107	0.100	0.106	106	1	70-125	25	
Toluene	<0.00200	0.100	0.109	109	0.100	0.102	102	7	70-125	25	
Ethylbenzene	< 0.00100	0.100	0.109	109	0.100	0.108	108	1	71-129	25	
m_p-Xylenes	< 0.00200	0.200	0.205	103	0.200	0.208	104	1	70-131	25	
o-Xylene	< 0.00100	0.100	0.102	102	0.100	0.104	104	2	71-133	25	

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

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



Sample Duplicate Recovery



Project Name: L-5 to MF

Work Order #: 458517

Lab Batch #: 908093				Project I	D:	
Date Analyzed: 03/01/2013 12:00	Date Prepar	red: 03/01/2013	3 Anal	lyst:MTK		
<b>QC- Sample ID:</b> 458508-001 D	Batch	a #: 1	Mat	rix: Water		
Reporting Units: mg/L		SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
TDS by SM2540C		Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte			[ <b>B</b> ]			
Total dissolved solids		3440	3860	12	30	

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

AB Order ID #	45851
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Company Name:	Basin Environm	ental Service Tecl	hnolog	ies, Ll	LC	Phone	#:			(57	5)3	96-23	78	····				~!			LYS					<u></u>					·
Address:		P.O. Box 301 vington, NM 8820				Fax #:						6-142				-	))   -  -  -  -  -  -  -  -  -  -  -  -  -	51r0		or :	spe		y M	leti 	nod	l No	<b>).)</b> [	1	-		111
Contact Person:	Soec LOWRY Rose Slade	pm@basiner	10.10			E-mail		) basin i.inske	env.c	om ro	se.s		@sug.co	m																	
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LAB ID ( LAB USE ONLY )	SAMF	PLE ID	(G)RAB or (C)OMP	# CONTAINERS	WATER	SOIL AIR	SLUDGE	HCL	HNO <sub>3</sub> H <sub>3</sub> SO,	laOH	Ю	NONE	DATE	TIME	Chloride	TDS BTEY 8021B														Around	Hold
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ubmittal of sample	es constitutes agreement	and the second	ORIG		CO	PY		: :							Carr	ier #					10										

Final 1.000



## **XENCO** Laboratories



## Prelogin/Nonconformance Report- Sample Log-In

Client: Southern Union Gas Services- MonahanAcceptable Temperature Range: 0 - 6 degCDate/ Time Received: 02/28/2013 02:22:00 PMAir and Metal samples Acceptable Range: AmbientWork Order #: 458517Temperature Measuring device used :

	Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?		-1	
#2 *Shipping container in good condition?		Yes	
#3 *Samples received on ice?		Yes	
#4 *Custody Seals intact on shipping conta	niner/ cooler?	Yes	
#5 Custody Seals intact on sample bottles	?	Yes	
#6 *Custody Seals Signed and dated?		Yes	
<pre>#7 *Chain of Custody present?</pre>		Yes	
#8 Sample instructions complete on Chain	of Custody?	Yes	
#9 Any missing/extra samples?		No	
#10 Chain of Custody signed when relinqu	ished/ received?	Yes	
#11 Chain of Custody agrees with sample	label(s)?	Yes	
#12 Container label(s) legible and intact?		Yes	
#13 Sample matrix/ properties agree with 0	Chain of Custody?	Yes	
#14 Samples in proper container/ bottle?		Yes	
#15 Samples properly preserved?		Yes	
#16 Sample container(s) intact?		Yes	
#17 Sufficient sample amount for indicated	test(s)?	Yes	
#18 All samples received within hold time?		Yes	
#19 Subcontract of sample(s)?		Yes	
#20 VOC samples have zero headspace (I	ess than 1/4 inch bubble)?	Yes	
#21 <2 for all samples preserved with HNC	03,HCL, H2SO4?	Yes	
#22 >10 for all samples preserved with Na.	AsO2+NaOH, ZnAc+NaOH?	Yes	

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

Analyst:

PH Device/Lot#:

Checklist completed by:

Date:

Checklist reviewed by:

Date: \_\_\_\_\_

# Analytical Report 458453

# for Southern Union Gas Services- Monahans

**Project Manager: Joel Lowry** 

L-5 to MF

(1RP-2184)

11-MAR-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)



11-MAR-13

TNI HAGRATORI

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

Reference: XENCO Report No(s): **458453** L-5 to MF Project Address: Lea County, NM

### Joel Lowry:

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) 458453. 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. 458453 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully

Nicholas Straccione Project Manager

> 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

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# Sample Cross Reference 458453



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

L-5 to MF

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-1 @ 5'	S	02-26-13 09:30	5 ft	458453-001
MW-1 @ 10'	S	02-26-13 09:40	10 ft	458453-002
MW-1 @ 15'	S	02-26-13 09:50	15 ft	458453-003
MW-1 @ 20'	S	02-26-13 10:00	20 ft	458453-004
MW-1 @ 25'	S	02-26-13 10:10	25 ft	458453-005
MW-1 @ 30'	S	02-26-13 10:20	30 ft	458453-006
MW-1 @ 35'	S	02-26-13 10:30	35 ft	458453-007



## CASE NARRATIVE

Client Name: Southern Union Gas Services- Monahans Project Name: L-5 to MF



Project ID: (1RP-2184) Work Order Number(s): 458453 Report Date: *11-MAR-13* Date Received: *02/27/2013* 

**Sample receipt non conformances and comments:** None

Sample receipt non conformances and comments per sample:

None

**Analytical non conformances and comments:** Batch: LBA-908387 Inorganic Anions by EPA 300/300.1 E300

Batch 908387, Chloride recovered below QC limits in the Matrix Spike. Samples affected are: 458453-006, -007, -005. The Laboratory Control Sample for Chloride is within laboratory Control Limits

Batch: LBA-908636 BTEX by EPA 8021B SW8021BM

Batch 908636, Ethylbenzene, m\_p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike Duplicate.

Samples affected are: 458453-001, -004.

The Laboratory Control Sample for Ethylbenzene, m\_p-Xylenes  $% \mathcal{A}$  , o-Xylene is within laboratory Control Limits



## Certificate of Analysis Summary 458453

Southern Union Gas Services- Monahans, Monahans, TX

Project Name: L-5 to MF



Date Received in Lab: Wed Feb-27-13 10:20 am Report Date: 11-MAR-13

Contact: Joel Lowry Project Location: Lea County, NM

**Project Id:** (1RP-2184)

oject Location: Lea County, NM								Report	Dutt.	11 101111 15			
								Project Mai	nager:	Nicholas Strac	cione		
	Lab Id:	458453-0	001	458453-0	02	458453-0	03	458453-0	04	458453-0	05	458453-0	06
A so a lucia Do any catod	Field Id:	MW-1 @	5'	MW-1 @	10'	MW-1 @	15'	MW-1 @	20'	MW-1 @	25'	MW-1 @	30'
Analysis Requested	Depth:	5- ft		10- ft		15- ft		20- ft		25- ft		30- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Feb-26-13	09:30	Feb-26-13 0	9:40	Feb-26-13 0	9:50	Feb-26-13 1	10:00	Feb-26-13 1	0:10	Feb-26-13 1	0:20
BTEX by EPA 8021B	Extracted:	Mar-08-13	13:10					Mar-08-13	13:10				
	Analyzed:	Mar-08-13	19:11					Mar-08-13	19:28				
	Units/RL:	mg/kg	RL					mg/kg	RL				
Benzene		ND	0.00105					ND	0.00110				
Toluene		ND	0.00209					ND	0.00220				
Ethylbenzene		ND	0.00105					ND	0.00110				
m_p-Xylenes		ND	0.00209					ND	0.00220				
o-Xylene		ND	0.00105					ND	0.00110				
Total Xylenes		ND	0.00105					ND	0.00110				
Total BTEX		ND	0.00105					ND	0.00110				
Inorganic Anions by EPA 300/300.1	Extracted:												
SUB: TX104704215	Analyzed:	Mar-06-13	09:02	Mar-06-13 (	9:24	Mar-06-13 (	09:45	Mar-06-13	10:07	Mar-06-13	12:46	Mar-06-13 1	3:30
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		392	10.0	500	10.0	133	20.0	53.4	10.0	15.1	4.00	20.1	4.00
Percent Moisture	Extracted:												
	Analyzed:	Mar-01-13	13:45	Mar-01-13 1	3:45	Mar-01-13 1	13:45	Mar-01-13	13:45	Mar-04-13	13:00	Mar-04-13 1	3:00
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		4.71	1.00	7.89	1.00	9.69	1.00	9.55	1.00	6.77	1.00	5.88	1.00
TPH By SW8015 Mod	Extracted:	Mar-01-13	16:00	Mar-01-13 1	6:00	Mar-01-13 1	16:00	Mar-01-13	16:00	Mar-01-13	16:00	Mar-01-13 1	6:00
	Analyzed:	Mar-02-13	02:01	Mar-02-13 (	2:25	Mar-02-13 (	02:49	Mar-02-13 (	03:14	Mar-02-13 (	03:38	Mar-02-13 0	04:02
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		ND	15.7	ND	16.2	ND	16.6	ND	16.6	ND	16.1	ND	15.9
C12-C28 Diesel Range Hydrocarbons		53.9	15.7	19.8	16.2	ND	16.6	ND	16.6	ND	16.1	ND	15.9
28-C35 Oil Range Hydrocarbons ND 15.7		ND	16.2	ND	16.6	ND	16.6	ND	16.1	ND	15.9		
Total TPH		53.9	15.7	19.8	16.2	ND	16.6	ND	16.6	ND	16.1	ND	15.9

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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Nicholas Straccione Project Manager

Page 5 of 20



**Project Id:** (1RP-2184)

Project Location: Lea County, NM

**Contact:** Joel Lowry

## Certificate of Analysis Summary 458453

Southern Union Gas Services- Monahans, Monahans, TX

Project Name: L-5 to MF



Date Received in Lab: Wed Feb-27-13 10:20 am Report Date: 11-MAR-13

Project Manager: Nicholas Straccione

	Lab Id:	458453-007			
An alunia Domonato I	Field Id:	MW-1 @ 35'			
Analysis Requested	Depth:	35- ft			
	Matrix:	SOIL			
	Sampled:	Feb-26-13 10:30			
BTEX by EPA 8021B	Extracted:	Mar-04-13 08:10			
	Analyzed:	Mar-04-13 09:51			
	Units/RL:	mg/kg RI	_		
Benzene		ND 0.0010	17		
Toluene		ND 0.0021	3		
Ethylbenzene		ND 0.0010	17		
m_p-Xylenes		ND 0.0021	3		
o-Xylene		ND 0.0010	17		
Total Xylenes		ND 0.0010	17		
Total BTEX		ND 0.0010	17		
Inorganic Anions by EPA 300/300.1	Extracted:				
SUB: TX104704215	Analyzed:	Mar-06-13 13:51			
	Units/RL:	mg/kg RI	_		
Chloride		17.6 4.0	0		
Percent Moisture	Extracted:				
	Analyzed:	Mar-04-13 13:00			
	Units/RL:	% RI	_		
Percent Moisture		6.79 1.0	0		
TPH By SW8015 Mod	Extracted:	Mar-01-13 16:00			
	Analyzed:	Mar-02-13 04:26			
	Units/RL:	mg/kg RI	_		
C6-C12 Gasoline Range Hydrocarbons		ND 16.	0		
C12-C28 Diesel Range Hydrocarbons		ND 16.	0		
C28-C35 Oil Range Hydrocarbons		ND 16.	0		
Total TPH		ND 16.	0		

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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Nicholas Straccione Project Manager

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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
- **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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(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	

Final 1.000


Project Name: L-5 to MF

Vork Orders : 458453 Lab Batch #: 908102	3, Sample: 458453-001 / SMP	Batc	0	<b>D:</b> (1RP-2184	4)						
Units: mg/kg	Date Analyzed: 03/02/13 02:01		RROGATE R		STUDY						
	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags					
	Analytes			[D]							
1-Chlorooctane		101	99.5	102	70-135						
o-Terphenyl		52.5	49.8	105	70-135						
Lab Batch #: 908102	Sample: 458453-002 / SMP	Batc	-								
Units: mg/kg	Date Analyzed: 03/02/13 02:25	SU	RROGATE R	ECOVERY	VERY STUDY						
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
1-Chlorooctane		97.5	99.7	98	70-135						
o-Terphenyl		51.7	49.9	104	70-135						
Lab Batch #: 908102	Sample: 458453-003 / SMP	Batc	h: <sup>1</sup> Matrix	<b>x:</b> Soil	1						
Units: mg/kg	Date Analyzed: 03/02/13 02:49	SU	RROGATE R	ECOVERY	STUDY						
	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
1-Chlorooctane	Analytes	05.1	00.8		70.125						
o-Terphenyl		95.1 50.4	99.8	95	70-135 70-135						
					70-133						
Lab Batch #: 908102	Sample: 458453-004 / SMP	Bate	h: 1 Matrix	-	STUDY						
Units: mg/kg	Date Analyzed: 03/02/13 03:14	50	KKUGAIE K								
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
1-Chlorooctane		98.7	99.8	99	70-135						
o-Terphenyl		52.4	49.9	105	70-135						
Lab Batch #: 908102	Sample: 458453-005 / SMP	Batc	h: 1 Matrix	<b>x:</b> Soil							
Units: mg/kg	Date Analyzed: 03/02/13 03:38	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	<i>v</i>	100	100	100	70-135						
o-Terphenyl		53.1	-		70-135						

\* Surrogate outside of Laboratory QC limits

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

\*\*\* Poor recoveries due to dilution



Project Name: L-5 to MF

7 <b>ork Orders :</b> 458453 Lab Batch #: 908102	3, Sample: 458453-006 / SMP	Batch		<b>D:</b> (1RP-2184 :: Soil	4)										
Units: mg/kg	Date Analyzed: 03/02/13 04:02		RROGATE R		STUDY										
	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags									
	Analytes			[D]											
1-Chlorooctane		97.0	99.9	97	70-135										
o-Terphenyl		51.3 50.0 103 70-135													
Lab Batch #: 908102	Sample: 458453-007 / SMP														
Units: mg/kg	Date Analyzed: 03/02/13 04:26	SURROGATE RECOVERY STUDY													
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags									
1-Chlorooctane	Anarytes	98.7	99.7	99	70-135										
o-Terphenyl		52.0	49.9	104	70-135										
	G 1 459452 007 / SMD			-	10 155										
Lab Batch #: 908204	Sample: 458453-007 / SMP	Batch	h: <sup>1</sup> Matrix		STUDV										
Units: mg/kg	Date Analyzed: 03/04/13 09:51	501	KNUGATE K												
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags									
1,4-Difluorobenzene		0.0261	0.0300	87	80-120										
4-Bromofluorobenzene		0.0278	0.0300	93	80-120										
Lab Batch #: 908636	Sample: 458453-001 / SMP	Batch													
Units: mg/kg	Date Analyzed: 03/08/13 19:11		RROGATE R		STUDY										
	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags									
	Analytes			[D]											
1,4-Difluorobenzene		0.0320	0.0300	107	80-120										
4-Bromofluorobenzene		0.0317	0.0300	106	80-120										
Lab Batch #: 908636	Sample: 458453-004 / SMP	Batch													
Units: mg/kg	Date Analyzed: 03/08/13 19:28	SUI	RROGATE R	ECOVERY	STUDY										
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags									
	ranaly its														
1,4-Difluorobenzene		0.0252	0.0300	84	80-120										

\* Surrogate outside of Laboratory QC limits

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

\*\*\* Poor recoveries due to dilution



Project Name: L-5 to MF

<b>fork Orders :</b> 458453 Lab Batch #: <sup>908102</sup>	, Sample: 634524-1-BLK / B												
Units: mg/kg	Date Analyzed: 03/02/13 01:36	SU.	RROGATE R	ECOVERYS	STUDY								
TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags							
	Analytes			[D]									
1-Chlorooctane		98.9	99.8	99	70-135								
o-Terphenyl		52.7	49.9	106	70-135								
Lab Batch #: 908204	Sample: 634606-1-BLK / B	LK Batel	n: <sup>1</sup> Matrix	c:Solid									
Units: mg/kg	Date Analyzed: 03/04/13 09:35	SU.	RROGATE R	ECOVERYS	STUDY								
BTEX	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flage							
1.4-Difluorobenzene	Analy tes	0.0292	0.0300	97	80-120								
4-Bromofluorobenzene		0.0302	0.0300	101	80-120								
Lab Batch #: 908636	Sample: 634866-1-BLK / B	LK Batcl	n: <sup>1</sup> Matrix	:Solid	1 1								
<b>Units:</b> mg/kg	Date Analyzed: 03/08/13 15:06		RROGATE R		STUDY								
BTEX	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag							
1,4-Difluorobenzene		0.0305	0.0300	102	80-120								
4-Bromofluorobenzene		0.0287	0.0300	96	80-120								
Lab Batch #: 908102	Sample: 634524-1-BKS / B	KS Batcl	n: 1 Matrix	:Solid	1 1								
Units: mg/kg	Date Analyzed: 03/02/13 00:47		RROGATE R		STUDY								
TPH 1	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag							
1-Chlorooctane	Analy tes	89.3	99.7	90	70-135								
o-Terphenyl		51.5	49.9	103	70-135								
Lab Batch #: 908204	Sample: 634606-1-BKS / B	KS Batcl	n: <sup>1</sup> Matrix	:Solid	<u> </u>								
Units: mg/kg	Date Analyzed: 03/04/13 09:02		RROGATE R		STUDY								
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag							
1,4-Difluorobenzene	Analytes	0.0323	0.0300	108	80-120								
i, i Dinuoiooenzene		0.0525	0.0500	100	00-120								

\* Surrogate outside of Laboratory QC limits

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

\*\*\* Poor recoveries due to dilution



Project Name: L-5 to MF

<b>Vork Orders :</b> 458453		Project ID: (1RP-2184) S/BKS Batch: 1 Matrix: Solid											
Lab Batch #: 908636	Sample: 634866-1-BKS / BI Date Analyzed: 03/08/13 14:33		n: 1 Matrix		STUDY								
Units: mg/kg BTE2	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags							
	Analytes			[D]									
1,4-Difluorobenzene		0.0318	0.0300	106	80-120								
4-Bromofluorobenzene		0.0301	0.0300	100	80-120								
Lab Batch #: 908102	Sample: 634524-1-BSD / BS	SD Batch	n: <sup>1</sup> Matrix	:Solid									
Units: mg/kg	Date Analyzed: 03/02/13 01:12	SUI	RROGATE R	ECOVERY S	STUDY								
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flage							
1-Chlorooctane		94.9	99.9	95	70-135								
o-Terphenyl		55.0	50.0	110	70-135								
Lab Batch #: 908204	Sample: 634606-1-BSD / BS	SD Batch	n: 1 Matrix	Solid									
Units: mg/kg	Date Analyzed: 03/04/13 09:19	SUI	RROGATE R	ECOVERY S	STUDY								
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag							
1,4-Difluorobenzene	,,	0.0331	0.0300	110	80-120								
4-Bromofluorobenzene		0.0338	0.0300	113	80-120								
Lab Batch #: 908636	Sample: 634866-1-BSD / BS	SD Batch	n: 1 Matrix	:Solid	1 1								
Units: mg/kg	Date Analyzed: 03/08/13 14:49	SUI	RROGATE R	ECOVERY S	STUDY								
BTEZ	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag							
1.4-Difluorobenzene		0.0276	0.0300	92	80-120								
4-Bromofluorobenzene		0.0297	0.0300	99	80-120								
Lab Batch #: 908102	Sample: 458454-001 S / MS	Batch	n: 1 Matrix	:Soil	<u> </u>								
<b>Units:</b> mg/kg	Date Analyzed: 03/02/13 10:35		RROGATE R		STUDY								
TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag							
1-Chlorooctane	Analytes	02.7	00.7		70-135								
1-CHIOLOGCIANE		93.7	99.7	94	/0-133								

\* Surrogate outside of Laboratory QC limits

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

\*\*\* Poor recoveries due to dilution



Project Name: L-5 to MF

Vork Orders: 458453 Lab Batch #: 908204	3, Sample: 458453-007 S / MS	/ MS Batch: 1 Matrix: Soil													
Units: mg/kg	Date Analyzed: 03/04/13 12:02		RROGATE R		STUDY										
BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags									
	Analytes			[D]											
1,4-Difluorobenzene		0.0310	0.0300	103	80-120										
4-Bromofluorobenzene		0.0306 0.0300 102 80-120													
Lab Batch #: 908636	Sample: 458452-004 S / MS														
Units: mg/kg	Date Analyzed: 03/08/13 20:01	SURROGATE RECOVERY STUDY													
BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags									
1.4-Difluorobenzene	Analytes	0.0225	0.0200		80-120										
4-Bromofluorobenzene		0.0335	0.0300	112	80-120										
	a			-	00 120										
Lab Batch #: 908102	Sample: 458454-001 SD / N				STUDY										
Units: mg/kg	Date Analyzed: 03/02/13 11:01	SURROGATE RECOVERY STUDY													
TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags									
1.011	Analytes														
1-Chlorooctane		94.2	99.9	94	70-135										
o-Terphenyl		55.2	50.0	110	70-135										
Lab Batch #: 908204	Sample: 458453-007 SD / N														
Units: mg/kg	Date Analyzed: 03/04/13 12:19	SU.	RROGATE R	ECOVERY	STUDY										
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flage									
1,4-Difluorobenzene	~	0.0335	0.0300	112	80-120										
4-Bromofluorobenzene		0.0344	0.0300	115	80-120										
Lab Batch #: 908636	Sample: 458452-004 SD / N	ASD Batcl	h: 1 Matrix	:Soil											
Units: mg/kg	Date Analyzed: 03/08/13 20:17	SU	RROGATE R	ECOVERY S	STUDY										
BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flage									
	Analytas			D											
1.4-Difluorobenzene	Analytes	0.0315	0.0300	[ <b>D</b> ] 105	80-120										

\* Surrogate outside of Laboratory QC limits

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

\*\*\* Poor recoveries due to dilution





#### Project Name: L-5 to MF

Work Order #: 458453	<b>Project ID:</b> (1RP-2184)															
Analyst: KEB	Da	ate Prepar	red: 03/04/201	13			Date A	nalyzed: (	03/04/2013							
Lab Batch ID: 908204 Sample: 634606-1-	BKS	Batcl	<b>h #:</b> 1					Matrix: S	Solid							
Units: mg/kg		BLAN	K /BLANK S	SPIKE / F	BLANK S	NK SPIKE DUPLICATE RECOVERY STUDY										
BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag					
Benzene	< 0.00100	0.100	0.0892	89	0.0996	0.0950	95	6	70-130	35						
Toluene	< 0.00200	0.100	0.0864	86	0.0996	0.0937	94	8	70-130	35						
Ethylbenzene	< 0.00100	0.100	0.0880	88	0.0996	0.0969	97	10	71-129	35						
m_p-Xylenes	< 0.00200	0.200	0.170	85	0.199	0.190	95	11	70-135	35						
o-Xylene	< 0.00100	0.100	0.0888	89	0.0996	0.0924	93	4	71-133	35						
		0.12.0.0	0.0000			0.072.										
Analyst: KEB	Da		red: 03/08/201			0.0721		nalyzed: (	03/08/2013							
		ate Prepar					Date A	nalyzed: () Matrix: S								
Analyst: KEB		ate Prepar Batcl	red: 03/08/201	13		I	Date A	Matrix: S	Solid	Y						
Analyst: KEB Lab Batch ID: 908636 Sample: 634866-1-		ate Prepar Batcl	red: 03/08/201 h #: 1	13		I	Date A	Matrix: S	Solid	Control Limits %RPD	Flag					
Analyst: KEB Lab Batch ID: 908636 Sample: 634866-1- Units: <sup>mg/kg</sup> BTEX by EPA 8021B	BKS Blank Sample Result	ate Prepar Batcl BLAN Spike Added	ed: 03/08/201 h #: 1 K /BLANK S Blank Spike Result	13 SPIKE / E Blank Spike %R	BLANK S Spike Added	SPIKE DUPI Blank Spike Duplicate	Date An LICATE 1 Blk. Spk Dup. %R	Matrix: S RECOVE RPD	Solid ERY STUD Control Limits	Control Limits	Flag					
Analyst: KEB Lab Batch ID: 908636 Sample: 634866-1- Units: <sup>mg/kg</sup> BTEX by EPA 8021B Analytes	BKS Blank Sample Result [A]	nte Prepar Batcl BLAN Spike Added [B]	red: 03/08/201 h #: 1 K /BLANK S Blank Spike Result [C]	13 SPIKE / F Blank Spike %R [D]	BLANK S Spike Added [E]	BIKE DUPI Blank Spike Duplicate Result [F]	Date An LICATE 1 Blk. Spk Dup. %R [G]	Matrix: S RECOVE RPD %	Solid ERY STUD Control Limits %R	Control Limits %RPD	Flag					
Analyst: KEB Lab Batch ID: 908636 Sample: 634866-1- Units: <sup>mg/kg</sup> BTEX by EPA 8021B Analytes Benzene	BKS Blank Sample Result [A] <0.00100	nte Prepar Batcl BLAN Spike Added [B] 0.100	ed: 03/08/201 h #: 1 K /BLANK S Blank Spike Result [C] 0.0812	SPIKE / F Blank Spike %R [D] 81	Spike Added [E] 0.0998	Blank Spike Duplicate Result [F] 0.0812	Date An LICATE 1 Blk. Spk Dup. %R [G] 81	Matrix: S RECOVE RPD %	Solid ERY STUD Control Limits %R 70-130	Control Limits %RPD 35	Flag					
Analyst: KEB Lab Batch ID: 908636 Sample: 634866-1- Units: <sup>mg/kg</sup> BTEX by EPA 8021B Analytes Benzene Toluene	BKS Blank Sample Result [A] <0.00100 <0.00201	ate Prepar Batcl BLAN Spike Added [B] 0.100 0.100	red: 03/08/201 h #: 1 K /BLANK S Blank Spike Result [C] 0.0812 0.0807	I3 SPIKE / E Blank Spike %R [D] 81 81	<b>3LANK S</b> Spike Added [E] 0.0998 0.0998	Blank Spike Duplicate Result [F] 0.0812 0.0801	Date An LICATE 1 Blk. Spk Dup. %R [G] 81 80	Matrix: S RECOVE RPD %	Solid ERY STUD Control Limits %R 70-130 70-130	Control Limits %RPD 35 35	Flag					

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





#### Project Name: L-5 to MF

Work Order #: 458453		Project ID: (1RP-2184)           Date Prepared: 03/06/2013         Date Analyzed: 03/06/2013										
Analyst: AMB	<b>a</b>		-		3			Date A	·			
Lab Batch ID: 908358	Sample: 908358-1-F	3KS		h#: 1					Matrix: S			
Units: mg/kg			BLAN	K/BLANK S	SPIKE / I	BLANK S	SPIKE DUP	LICATE	RECOVI	ERY STUD	Y	
Inorganic Anions by Analytes	EPA 300/300.1	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]	Control Limits %RPD	Flag		
Chloride		<2.00	50.0	51.7	103	50.0	51.4	103	1	80-120	20	
Analyst: AMB		Date Prepared:         03/06/2013         Date Analyzed:         03/06/2013										
Lab Batch ID: 908387	Sample: 908387-1-F											
Units: mg/kg		BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Inorganic Anions by Analytes	EPA 300/300.1	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	51.6	103	50.0	51.7	103	0	80-120	20	
Analyst: KEB		Da	ate Prepar	ed: 03/01/201	3			Date A	nalyzed: (	)3/02/2013	<u></u>	
Lab Batch ID: 908102	Sample: 634524-1-H	3KS	Batcl	h#: 1					Matrix: S	Solid		
Units: mg/kg			BLAN	K /BLANK S	SPIKE / I	BLANK S	SPIKE DUP	LICATE	RECOVI	ERY STUD	γ	
TPH By SW80 Analytes	915 Mod	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 Hydroc	carbons	<15.0	997	1010	101	999	996	100	1	70-135	35	<u> </u>
C12-C28 Diesel Range Hydroca	rbons	<15.0         997         1040         104         999         1040         104         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: L-5 to MF** 



Lab Batch #: 908358				Pro	oject ID:	(1RP-2184	)					
Date Analyzed: 03/06/2013	Date P	repared: 03/0	6/2013	А	nalyst: A	MB						
QC- Sample ID: 458450-001 S		Batch #: 1		r	Matrix: S	oil						
Reporting Units: mg/kg		MATE	RIX / MA	TRIX SPIKE	RECO	VERY STU	JDY					
Inorganic Anions by EPA 300 Analytes		Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag					
Chloride		94.3	250	356	105	80-120						
Lab Batch #: 908358												
<b>Date Analyzed:</b> 03/06/2013	Date P	repared: 03/0	А	nalyst: A	MB							
QC- Sample ID: 458452-002 S		<b>Batch #:</b> 1		r	Matrix: S	oil						
Reporting Units: mg/kg		MATE	RIX / MA	TRIX SPIKE	RECO	VERY STU	DY					
Inorganic Anions by EPA 300 Analytes		Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag					
Chloride		35.7	250	282	99	80-120						
Lab Batch #: 908387						I	1					
<b>Date Analyzed:</b> 03/06/2013	Date P	repared: 03/0	6/2013	А	nalyst: A	MB						
<b>QC- Sample ID:</b> 458453-005 S		<b>Batch #:</b> 1		Т	Matrix: S	oil						
Reporting Units: mg/kg		MATE	RIX / MA	TRIX SPIKE	RECO	VERY STU	DY					
Inorganic Anions by EPA 300 Analytes		Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag					
Chloride		15.1	100	122	107	80-120						
Lab Batch #: 908387												
<b>Date Analyzed:</b> 03/06/2013	Date P	repared: 03/0	6/2013	Α	nalyst: A	MB						
<b>QC- Sample ID:</b> 458532-001 S		<b>Batch #:</b> 1		Γ	<b>Matrix:</b> S	oil						
Reporting Units: mg/kg		MATR	RIX / MA	TRIX SPIKE	RECO	VERY STU	DY					
		Parent Sample	Spike	Spiked Sample Result	%R	Control Limits	Flag					
Inorganic Anions by EPA 300 Analytes		Result [A]	Added [B]	[C]	[D]	%R						

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: L-5 to MF



Work Order #: 458453						Project II	<b>D:</b> (1RP-2	184)			
Lab Batch ID: 908204 Date Analyzed: 03/04/2013	QC- Sample ID: Date Prepared:				tch #: alyst:	1 Matrix KEB	<b>c:</b> Soil				
<b>Reporting Units:</b> mg/kg		Μ	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA'	TE REC	OVERY	STUDY		
BTEX by EPA 8021B	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Spiked Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes	[A]	[ <b>B</b> ]		[D]	[E]		[G]				
Benzene	<0.00107	0.107	0.0988	92	0.107	0.0921	86	7	70-130	35	
Toluene	<0.00214	0.107	0.0980	92	0.107	0.0912	85	7	70-130	35	
Ethylbenzene	<0.00107	0.107	0.0973	91	0.107	0.0849	79	14	71-129	35	
m_p-Xylenes	<0.00214	0.214	0.187	87	0.214	0.164	77	13	70-135	35	
o-Xylene	<0.00107	0.107	0.0939	88	0.107	0.0835	78	12	71-133	35	
Lab Batch ID: 908636	QC- Sample ID:	458452	-004 S	Ba	tch #:	1 Matrix	: Soil				
Date Analyzed: 03/08/2013	Date Prepared:	03/08/2	013	An	alyst:	KEB					
Reporting Units: mg/kg		Μ	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
BTEX by EPA 8021B 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
Benzene	<0.00110	0.110	0.0885	80	0.110	0.0866	79	2	70-130	35	
Toluene	<0.00221	0.110	0.0838	76	0.110	0.0782	71	7	70-130	35	
Ethylbenzene	<0.00110	0.110	0.0864	79	0.110	0.0764	69	12	71-129	35	X
m_p-Xylenes	<0.00221	0.221	0.155	70	0.220	0.140	64	10	70-135	35	X
o-Xylene	<0.00110	0.110	0.0789	72	0.110	0.0738	67	7	71-133	35	X

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

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



### Form 3 - MS / MSD Recoveries

#### Project Name: L-5 to MF



Work Order #: 458453 **Project ID: (1RP-2184)** Lab Batch ID: 908102 Matrix: Soil QC- Sample ID: 458454-001 S Batch #: 1 Date Prepared: 03/01/2013 Analyst: KEB Date Analyzed: 03/02/2013 Reporting Units: mg/kg MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY Parent Spiked Sample Spiked Duplicate Spiked Control Control TPH By SW8015 Mod Sample Result Spiked Sample RPD Limits Spike Sample Spike Dup. Limits Flag Result Added [C] %R Added Result [F] %R %R %RPD % Analytes [A] [B] [D] [E] [G] C6-C12 Gasoline Range Hydrocarbons <15.9 1060 1060 100 1060 1070 101 1 70-135 35 45.5 103 104 35 C12-C28 Diesel Range Hydrocarbons 1060 1140 1060 1150 1 70-135

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

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



# Sample Duplicate Recovery



### Project Name: L-5 to MF

Work Order #: 458453

Lab Batch #: 908071			Project I	<b>D:</b> (1RP-218	34)					
Date Analyzed: 03/01/2013 13:45	Date Prepared: 03/01/201	3 Anal	yst:WRU							
QC- Sample ID: 458450-001 D	<b>Batch #:</b> 1	Mat	Matrix: Soil							
Reporting Units: %	SAMPLE	SAMPLE / SAMPLE DUPLICATE RECOVE								
Percent Moisture	Result	Parent SampleSampleControlResultDuplicateRPDLimits[A]Result%RPD								
Analyte		[B]								
Percent Moisture	16.1	16.0	1	20						
Lab Batch #: 908175										
	Date Prepared: 03/04/201	3 Anal	yst:WRU							
	Date Prepared: 03/04/201 Batch #: 1		yst: WRU rix: Soil							
<b>Date Analyzed:</b> 03/04/2013 13:00	<b>Batch #:</b> 1		rix: Soil	ATE REC	OVERY					
Date Analyzed:         03/04/2013         13:00         I           QC- Sample ID:         458432-001 D         D	<b>Batch #:</b> 1	Mat	rix: Soil	ATE REC Control Limits %RPD	OVERY Flag					

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:	Joel Lowry						:		· ·				÷ .		P	rojec	t Na	me:	L-5	to N	IF	:							
	Company Name	Basin Environmental Se	rvice T	echnol	ogies, LLC									• • • • •			P	ojec	t #:	(1R	P-21	84)								
	Company Address:	P.O. Box 301															Proj	ect L	.oc:	Lea	Cour	nty, N	łM				-	• • • • •		
	City/State/Zip:	Lovington, NM 88260			· · · · · · · · · · · · · · · · · · ·													P	- )#:	Bili	Sout	iern	Unic	on G	ias			-		—
	Telephone No:	(575)396-2378				Fax No:		(57	5\ 20	96-14	420	-				Bana			1		Stand			.:	TRF					·
1.1	Sampler Signature:				÷	e-mail:					1.	v.cor	n. c\	/ndi.	insk	Repo eep@s						i .		_	IR	<u>۲</u>	<b>ــــــــــــــــــــــــــــــــــــ</b>		DES	
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(Xiuo esn			epth	-	eq	<u>9</u>		ainers								/ater S ater S	8015M		, Na, K)	SO4, Alkalinity)				30 or I			Sol		e-Sche	T 4 D
			ing D	Dept	Sampl	Sampl	ared	f Conta							Specify	ortinking Wa Groundwa	418.1	TX 1005	Ca, Mg	1, S04	P/CE		tiles	21B/50			SSOLV		AT (Pr	d TA
AB # (lab	· · · · · · · · · · · · · · · · · · ·		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Container	lce	HNO <sub>3</sub>	Ę	H <sub>2</sub> SO <sub>4</sub>	NacOn Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None	Other (		ΞŦ	ТРН: Т	Cations (Ca, Mg, Na,	Anions (Cl,	SAR / ESP / CEC Metals: As An Ba	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX		N.O.R.M.	CHLORIDES Total Dissolved Solids		RUSH TAT (Pre-Schedule)	Standard TAT 4 DAY
		_D CODE /-1 @ 5'	5		 2/26/2013	930	Ē	≓ 1	_ X	<u> </u>	÷			2		Soil		Ĕ	Ö	Ā	<u>ò ž</u>	Š	З	8	RCI		<u>5</u> X	+		<u>х</u>
02		-1 @ 10'	10		2/26/2013	940		1	x							Soil	X							: .			X			x
03	MW	-1 @ 15'	15		2/26/2013	950		1	X							Soil	X										x		$\Box$	X
04	MW	-1 @ 20'	20		2/26/2013	1000		1	X		_		-			Soil	X										x			X
05	MW	-1 @ 25'	25		2/26/2013	1010	11.	1	X				1			Soil	X							:			X			X
06	MW	-1 @ 30'	30		2/26/2013	1020	ļ	1	X							Soil	X										X			Х
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Final 1.000



### **XENCO** Laboratories



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

Client: Southern Union Gas Services- MonahanAcceptable Temperature Range: 0 - 6 degCDate/ Time Received: 02/27/2013 10:20:00 AMAir and Metal samples Acceptable Range: AmbientWork Order #: 458453Temperature Measuring device used :

Sample Receipt Checklist	Comment	s
#1 *Temperature of cooler(s)?	1.5	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?	Yes	
#6 *Custody Seals Signed and dated?	Yes	
#7 *Chain of Custody present?	Yes	
#8 Sample instructions complete on Chain of Custody?	Yes	
#9 Any missing/extra samples?	No	
#10 Chain of Custody signed when relinquished/ received?	Yes	
#11 Chain of Custody agrees with sample label(s)?	Yes	
#12 Container label(s) legible and intact?	Yes	
#13 Sample matrix/ properties agree with Chain of Custody?	Yes	
#14 Samples in proper container/ bottle?	Yes	
#15 Samples properly preserved?	Yes	
#16 Sample container(s) intact?	Yes	
#17 Sufficient sample amount for indicated test(s)?	Yes	
#18 All samples received within hold time?	Yes	
#19 Subcontract of sample(s)?	Yes	
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes	
#21 <2 for all samples preserved with HNO3,HCL, H2SO4?	Yes	
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	Yes	

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

Analyst:

PH Device/Lot#:

Checklist completed by:

Date:

Checklist reviewed by:

Date: \_\_\_\_\_

# Analytical Report 463105

# for Southern Union Gas Services- Monahans

**Project Manager: Joel Lowry** 

#### L-5 to MF

#### 20-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)



20-MAY-13



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

Reference: XENCO Report No(s): 463105 L-5 to MF Project Address: Lea County, NM

#### Joel Lowry:

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) 463105. 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. 463105 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

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# Sample Cross Reference 463105



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

L-5 to MF

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-1	W	05-09-13 12:00		463105-001



### CASE NARRATIVE



Client Name: Southern Union Gas Services- Monahans Project Name: L-5 to MF

Project ID: Work Order Number(s): 463105 Report Date: 20-MAY-13 Date Received: 05/13/2013

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Chloride

**Project Id:** 

**Contact:** Joel Lowry

Project Location: Lea County, NM

### Certificate of Analysis Summary 463105

Southern Union Gas Services- Monahans, Monahans, TX

Project Name: L-5 to MF



Date Received in Lab:Mon May-13-13 02:50 pmReport Date:20-MAY-13

				<b>Project Manager:</b>	Kelsey Brooks	
	Lab Id:	463105-001				
Anglusis Degregated	Field Id:	MW-1				
Analysis Requested	Depth:					
	Matrix:	WATER				
	Sampled:	May-09-13 12:00				
BTEX by EPA 8021B	Extracted:	May-15-13 14:00				
	Analyzed:	May-16-13 03:50				
	Units/RL:	mg/L RL				
Benzene		ND 0.00100				
Toluene		ND 0.00200				
Ethylbenzene		ND 0.00100				
m_p-Xylenes		ND 0.00200				
o-Xylene		ND 0.00100				
Total Xylenes		ND 0.00100				
Total BTEX		ND 0.00100				
Inorganic Anions by EPA 300/300.1	May-16-13 10:00					

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.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Analyzed:

Units/RL:

May-17-13 00:17

123

RL

5.00

mg/L

Huns Boah

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 quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

\* Surrogate recovered outside laboratory control limit.

- **BRL** Below Reporting Limit.
- RL Reporting Limit
- MDL Method Detection Limit
   SDL Sample Detection Limit
   LOD Limit of Detection
- PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation
- **DL** Method Detection Limit
- NC Non-Calculable
- + NELAC certification not offered for this compound.
- \* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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5332 Blackberry Drive, San Antonio TX 78238
2505 North Falkenburg Rd, Tampa, FL 33619
12600 West I-20 East, Odessa, TX 79765
6017 Financial Drive, Norcross, GA 30071
3725 E. Atlanta Ave, Phoenix, AZ 85040

Fax

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(214) 351-9139

(210) 509-3335

(813) 620-2033

(432) 563-1713

(770) 449-5477



Project Name: L-5 to MF

<b>Vork Orders :</b> 463105 Lab Batch #: 913832	5, 463105 Sample: 463105-001 / SMP	Batch	Project II									
Units: mg/L	Date Analyzed: 05/16/13 03:50		RROGATE RI		STUDY							
	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags						
	Analytes			[D]								
1,4-Difluorobenzene		0.0282	0.0300	94	80-120							
4-Bromofluorobenzene		0.0295	0.0300	98	80-120							
Lab Batch #: 913832	Sample: 638135-1-BLK / BI											
Units: mg/L	Date Analyzed: 05/15/13 23:44	SURROGATE RECOVERY STUDY										
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags						
1,4-Difluorobenzene		0.0263	0.0300	88	80-120							
4-Bromofluorobenzene		0.0289	0.0300	96	80-120							
Lab Batch #: 913832	Sample: 638135-1-BKS / Bk	S Batch	n: <sup>1</sup> Matrix	Water	1 1							
Units: mg/L	Date Analyzed: 05/15/13 23:11		RROGATE RI	ECOVERY S	STUDY							
BTEZ	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags						
1,4-Difluorobenzene	-	0.0335	0.0300	112	80-120							
4-Bromofluorobenzene		0.0311	0.0300	104	80-120							
Lab Batch #: 913832	Sample: 638135-1-BSD / BS	D Batch	n: 1 Matrix	Water								
Units: mg/L	Date Analyzed: 05/16/13 09:45	SU	RROGATE RI	ECOVERY S	STUDY							
BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags						
1.4-Difluorobenzene	Analytes	0.0260	0.0200		80.120							
4-Bromofluorobenzene	1	0.0260	0.0300	87	80-120 80-120							
					00-120							
Lab Batch #: 913832	Sample: 462995-001 S / MS	Batch			TINY							
Units: mg/L	Date Analyzed: 05/16/13 00:00	501	RROGATE RI									
BTEX	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags						
1,4-Difluorobenzene		0.0250	0.0300	83	80-120							
,		0.0200	0.0000	1 33	00120							

\* Surrogate outside of Laboratory QC limits

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

\*\*\* Poor recoveries due to dilution



Project Name: L-5 to MF

Work Orders : 463105 Lab Batch #: 913832	5, 463105 Sample: 462995-001 SD / M	MSD Bate								
Units: mg/L	Date Analyzed: 05/16/13 00:16	SURROGATE RECOVERY STUDY								
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags				
1,4-Difluorobenzene		0.0282	0.0300	94	80-120					
4-Bromofluorobenzene		0.0254	0.0300	85	80-120					

\* Surrogate outside of Laboratory QC limits

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

\*\*\* Poor recoveries due to dilution





#### Project Name: L-5 to MF

<b>Work Order #:</b> 463105, 463105	Project ID:													
Analyst: DYV	Da	ate Prepar	ed: 05/15/201	3			Date A	nalyzed: (	05/15/2013					
Lab Batch ID: 913832         Sample: 638135-1-B	SKS	Batcl	h#: 1			Matrix: Water								
Units: mg/L	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY													
BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag			
Benzene	<0.00100	0.100	0.102	102	0.100	0.0860	86	17	70-125	25				
Toluene	<0.00200	0.100	0.106	106	0.100	0.0962	96	10	70-125	25				
Ethylbenzene	<0.00100	0.100	0.106	106	0.100	0.110	110	4	71-129	25				
m_p-Xylenes	<0.00200	0.200	0.195	98	0.200	0.204	102	5	70-131	25				
o-Xylene	<0.00100	0.100	0.102	102	0.100	0.0981	98	4	71-133	25				
Analyst: AMB	Da	ate Prepar	ed: 05/16/201	3			Date A	nalyzed: ()	05/16/2013					
Lab Batch ID: 914057         Sample: 638301-1-B	SKS	Batcl	<b>h #:</b> 1					Matrix: V	Water					
Units: mg/L		BLAN	K /BLANK S	SPIKE / B	BLANK S	SPIKE DUPI	JCATE 1	RECOVE	ERY STUD	Y				
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	<1.00	25.0	25.5	102	25.0	25.4	102	0	90-110	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



## Form 3 - MS Recoveries

Project Name: L-5 to MF



Work Order #: 463105 Lab Batch #: 914057		Project ID	:								
Date Analyzed: 05/17/2013	Date Prepared: 05/16/2013	Analyst: A	nalyst: AMB								
QC- Sample ID: 463105-001 S	<b>Batch #:</b> 1	Batch #: 1 Matrix: Water									
Reporting Units: mg/L	MATRIX / MATRIX SPIKE RECOVERY STUDY										
Inorganic Anions by EPA 300	Parent Sample Spike Result Addec		Control Limits %R	Flag							
Analytes	[A] [B]										
Chloride	123 125	243 96	80-120								

Matrix Spike Percent Recovery [D] = 100\*(C-A)/BRelative 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: L-5 to MF**



Work Order # :	463105						Project ID	):								
Lab Batch ID:	913832	QC- Sample ID:	462995	-001 S	Ba	tch #:	1 Matrix	: Water								
Date Analyzed:	05/16/2013	Date Prepared:	05/15/2	013	An	alyst: I	DYV									
<b>Reporting Units:</b>	mg/L	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY														
E	BTEX by EPA 8021B	Parent Sample	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample	-	RPD	Control Limits	Control Limits	Flag				
	Analytes	Result Add [A] [I		[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD					
Benzene		< 0.00100	0.100	0.0899	90	0.100	0.0882	88	2	70-125	25					
Toluene		< 0.00200	0.100	0.0897	90	0.100	0.0817	82	9	70-125	25					
Ethylbenzene		< 0.00100	0.100	0.0992	99	0.100	0.0924	92	7	71-129	25					
m_p-Xylenes		< 0.00200	0.200	0.185	93	0.200	0.168	84	10	70-131	25					
o-Xylene		<0.00100	0.100	0.0930	93	0.100	0.0893	89	4	71-133	25					

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

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

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-
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4
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3
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12600 West I-20 East	CHAIN OF CUSTODY R
Phone: 432-563-1800	RECORD AND ANALYSIS REQUEST

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

Belinquished by	Relinqui	Relinqui	specia		1.15					1000			L	AB # (lab use only)	ORDE	(lab use only)								
shed by:"	DUN SMALL	linquished by:	Special Instructions:									MW-1		FIFI D CODE	ORDER # 425100	only)		Sampler Signature: Nr. d.		City/State/Zip: Lovington, NM 88260	Company Address: P.O. Box 301	Company Name Basin Environmental Service Technologies, LLC	Project Manager: Joel Lowry	
Date	S/13/1	Date 5/13/13										4		4		(	P	la		A 88260		imental Se		
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X	- Cor											-		Field Filtered										
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emp	am am	usto	OC	abo	+	+	-				-+		_	Cations (Ca, Mg, Na, K)	_			1, cy		#  B		#	e.	
berat	by Sampler/Client Rep. ?	Labels on container(s) Custody seals on container(s) Custody seals on cooler(s)	Sample Containers Intact? VOCs Free of Headspace?	Laboratory Comments:	+	-					1	_	-	Anions (CI, SO4, Alkalinity) SAR / ESP / CEC	-	TOTAL:		ndi.i	×	PO #: Bill Southern Union Gas	Lea County, NM		0	1
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Final 1.000



### **XENCO Laboratories**



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

Client: Southern Union Gas Services- Monahan Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 05/13/2013 02:50:00 PM **Temperature Measuring device used :** Work Order #: 463105

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

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

Analyst:

PH Device/Lot#:

Checklist completed by: Mmg Moah Kelsey Brooks Checklist reviewed by: Mmg Moah Kelsey Brooks

Date: 05/14/2013

Date: 05/14/2013

# **Analytical Report 469766**

for Regency Gas

**Project Manager: Joel Lowry** 

#### L-5 to MF Historical

#### 09-SEP-13

Collected By: Client





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

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-13-14-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-SEP-13



Project Manager: **Joel Lowry Regency Gas** 801 South Loop 464 Monahans, TX 79756

Reference: XENCO Report No(s): **469766 L-5 to MF Historical** Project Address: Lea County, New Mexico

#### Joel Lowry:

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) 469766. 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. 469766 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

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



Sample Id

MW-1

### Sample Cross Reference 469766



### Regency Gas, Monahans, TX

L-5 to MF Historical

Μ	atrix	Date Collected	Sample Depth	Lab Sample Id
	W	09-03-13 14:30		469766-001





Client Name: Regency Gas Project Name: L-5 to MF Historical

Project ID: Work Order Number(s): 469766 Report Date: 09-SEP-13 Date Received: 09/04/2013

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



**Project Id:** 

Contact: Joel Lowry

Project Location: Lea County, New Mexico

### Certificate of Analysis Summary 469766

Regency Gas, Monahans, TX

Project Name: L-5 to MF Historical

Draft



Date Received in Lab:Wed Sep-04-13 08:52 amReport Date:09-SEP-13Derived MerceivedK laboration

			 	Project Manager:	Kelsey Brooks	
	Lab Id:	469766-001				
Analysis Requested	Field Id:	MW-1				
Analysis Kequestea	Depth:					
	Matrix:	WATER				
	Sampled:	Sep-03-13 14:30				
BTEX by SW 8260B	Extracted:	Sep-07-13 14:38				
SUB: TX104704215	Analyzed:	Sep-07-13 18:41				
	Units/RL:	mg/L RL				
Benzene		ND 0.00100				
Toluene		ND 0.00100				
Ethylbenzene		ND 0.00100				
m,p-Xylenes		ND 0.00200				
o-Xylene		ND 0.00100				
Total Xylenes		ND 0.00100				
Total BTEX		ND 0.00100				
Inorganic Anions by EPA 300/300.1	Extracted:	Sep-06-13 12:00				
SUB: TX104704215	Analyzed:	Sep-07-13 03:57				
	Units/RL:	mg/L RL				
Chloride		96.4 10.0				

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.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Huns Boah

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 quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

LOD Limit of Detection

Phone

(281) 240-4200

(214) 902 0300

(210) 509-3334

(813) 620-2000

(432) 563-1800

(770) 449-8800

(602) 437-0330

- \*\* Surrogate recovered outside laboratory control limit.
- **BRL** Below Reporting Limit.
- RL Reporting Limit
- MDL Method Detection Limit SDL Sample Detection Limit
- 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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9701 Harry Hines Blvd , Dallas, TX 75220
5332 Blackberry Drive, San Antonio TX 78238
2505 North Falkenburg Rd, Tampa, FL 33619
12600 West I-20 East, Odessa, TX 79765
6017 Financial Drive, Norcross, GA 30071
3725 E. Atlanta Ave, Phoenix, AZ 85040

Page 6 of 12	
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Fax

(281) 240-4280

(214) 351-9139

(210) 509-3335

(813) 620-2033

(432) 563-1713

(770) 449-5477



## Project Name: L-5 to MF Historical

Lab Batch #: 922281	Sample: 469766-001 / SMP	Batc	Project I h: <sup>1</sup> Matrix			
Units: mg/L	Date Analyzed: 09/07/13 18:41	SU	RROGATE R	ECOVERY S	STUDY	
BTE	X by SW 8260B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flag
	Analytes			[D]		
Dibromofluoromethane		0.0523	0.0500	105	75-131	
1,2-Dichloroethane-D4		0.0523	0.0500	105	63-144	
Toluene-D8		0.0522	0.0500	104	80-117	
4-Bromofluorobenzene		0.0483	0.0500	97	74-124	
Lab Batch #: 922281	Sample: 643565-1-BLK / BI	.K Batc	h: 1 Matrix	:Water		
Units: mg/L	Date Analyzed: 09/07/13 14:50	SU	RROGATE R	ECOVERY S	STUDY	
BTE	X by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag
Dibromofluoromethane	Analytes	0.0475	0.0500	95	75-131	
1.2-Dichloroethane-D4		0.0503	0.0500	101	63-144	
Toluene-D8		0.0493	0.0500	99	80-117	
4-Bromofluorobenzene		0.0521	0.0500	104	74-124	
				-	,	
Lab Batch #: 922281	Sample: 643565-1-BKS / BF Date Analyzed: 09/07/13 13:58		h: 1 Matrix RROGATE R		STUDY	
Units: mg/L	-		1			
BTE	X by SW 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag
	Analytes	0.051.6	0.0700		77.101	
Dibromofluoromethane		0.0516	0.0500	103	75-131	
1,2-Dichloroethane-D4		0.0521	0.0500	104	63-144	
Toluene-D8 4-Bromofluorobenzene	1	0.0499	0.0500	100	80-117	
		0.0508	0.0500	102	74-124	
Lab Batch #: 922281	Sample: 469599-001 S / MS		h: 1 Matrix			
Units: mg/L	Date Analyzed: 09/07/13 15:43	50	KRUGATE K			
BTE	X by SW 8260B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flag
	Analytes			[D]		
Dibromofluoromethane		0.0482	0.0500	96	75-131	
1,2-Dichloroethane-D4		0.0485	0.0500	97	63-144	
Toluene-D8		0.0514	0.0500	103	80-117	
			1	1		

\* Surrogate outside of Laboratory QC limits

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

\*\*\* Poor recoveries due to dilution



### Project Name: L-5 to MF Historical

Vork Orders : 469766 Lab Batch #: 922281 Units: mg/L	5, Sample: 469599-001 SD / 1 Date Analyzed: 09/07/13 16:09		Project II h: <sup>1</sup> Matrix: RROGATE RI	Water	STUDY	
ВТЕ	X by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane		0.0508	0.0500	102	75-131	
1,2-Dichloroethane-D4		0.0510	0.0500	102	63-144	
Toluene-D8		0.0514	0.0500	103	80-117	
4-Bromofluorobenzene		0.0493	0.0500	99	74-124	

\* Surrogate outside of Laboratory QC limits

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

\*\*\* Poor recoveries due to dilution





### **Project Name: L-5 to MF Historical**

Work Order #: 469766	Project ID:							
Lab Batch #: 922281	Sample: 643565	-1-BKS	Matrix	Water				
<b>Date Analyzed:</b> 09/07/2013	Date Prepared: 09/07/2	013	Analyst: SAD					
<b>Reporting Units:</b> mg/L	<b>Batch #:</b> 1	BLANK /	BLANK SPI	KE REC	COVERY S	STUDY		
BTEX by SW 8260B	Blank Result [A]	Spike Added [B]	Blank Spike Result	Blank Spike %R	Control Limits %R	Flags		
Analytes			[C]	[D]				
Benzene	<0.00100	0.100	0.0944	94	66-142			
Toluene	<0.00100	0.100	0.0933	93	59-139			
Ethylbenzene	<0.00100	0.100	0.101	101	75-125			
m,p-Xylenes	<0.00200	0.200	0.204	102	75-125			
o-Xylene	<0.00100	0.100	0.0969	97	75-125			
Lab Batch #: 922267	Sample: 643517-	-1-BKS	Matrix	Water				
<b>Date Analyzed:</b> 09/06/2013	Date Prepared: 09/06/2		Analyst	: RKO				
Reporting Units: mg/L	<b>Batch #:</b> 1	BLANK /	BLANK SPI	KE REC	COVERY S	STUDY		
Inorganic Anions by EPA 300/300	Result	Spike Added	Blank Spike	Blank Spike	Control Limits	Flags		
Analytes	[A]	[B]	Result [C]	%R [D]	%R			
Chloride	<1.00	100	96.4	96	90-110			

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



### Form 3 - MS / MSD Recoveries

#### **Project Name: L-5 to MF Historical**



<b>Work Order # :</b> 469766						Project II	):				
Lab Batch ID: 922281	QC- Sample ID:	469599	-001 S	Ba	tch #:	1 Matrix	<b>x:</b> Water				
<b>Date Analyzed:</b> 09/07/2013	Date Prepared:	09/07/2	013	An	alyst: S	SAD					
Reporting Units: mg/L		Μ	ATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
BTEX by SW 8260B	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Spiked Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes	[A]	[ <b>B</b> ]		[D]	[E]		[G]				
Benzene	<0.00100	0.100	0.0930	93	0.100	0.101	101	8	66-142	20	
Toluene	<0.00100	0.100	0.0892	89	0.100	0.0989	99	10	59-139	20	
Ethylbenzene	<0.00100	0.100	0.0977	98	0.100	0.108	108	10	75-125	20	
m,p-Xylenes	<0.00200	0.200	0.199	100	0.200	0.215	108	8	75-125	20	
o-Xylene	<0.00100	0.100	0.0969	97	0.100	0.110	110	13	75-125	20	
Lab Batch ID: 922267	QC- Sample ID:	469750	-001 S	Ba	tch #:	1 Matrix	x: Water				
<b>Date Analyzed:</b> 09/06/2013	Date Prepared:	09/06/2	013	An	alyst: H	RKO					
Date Analyzed:09/06/2013Reporting Units:mg/L	Date Prepared:				-	RKO <b>KE DUPLICA</b>	TE REC	OVERY	STUDY		
2 ave many 20av	Parent Sample	M Spike	ATRIX SPIK Spiked Sample Result	E / MAT Spiked Sample	RIX SPI	KE DUPLICA Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Reporting Units: mg/L	Parent	Μ	ATRIX SPIK	E / MAT Spiked	RIX SPI	KE DUPLICA Duplicate	Spiked		Control		Flag
Reporting Units: mg/L Inorganic Anions by EPA 300/300.1	Parent Sample Result	M Spike Added	ATRIX SPIK Spiked Sample Result	E / MAT Spiked Sample %R	RIX SPI Spike Added	KE DUPLICA Duplicate Spiked Sample	Spiked Dup. %R	RPD	Control Limits	Limits	Flag
Reporting Units: mg/L Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	M Spike Added [B] 1000	ATRIX SPIK Spiked Sample Result [C] 1070	E / MAT Spiked Sample %R [D] 97	RIX SPI Spike Added [E]	KE DUPLICA Duplicate Spiked Sample Result [F] 1080	Spiked Dup. %R [G]	RPD %	Control Limits %R	Limits %RPD	Flag
Reporting Units: mg/L Inorganic Anions by EPA 300/300.1 Analytes Chloride	Parent Sample Result [A] 101	M Spike Added [B] 1000 469763	ATRIX SPIK Spiked Sample Result [C] 1070	E / MAT Spiked Sample %R [D] 97 Ba	RIX SPI Spike Added [E] 1000	KE DUPLICA Duplicate Spiked Sample Result [F] 1080 1 Matrix	Spiked Dup. %R [G] 98	RPD %	Control Limits %R	Limits %RPD	Flag
Reporting Units:     mg/L       Inorganic Anions by EPA 300/300.1       Analytes       Chloride       Lab Batch ID:     922267	Parent Sample Result [A] 101 QC- Sample ID:	M Spike Added [B] 1000 469763 09/06/2	ATRIX SPIK Spiked Sample Result [C] 1070 -003 S 013	E / MAT Spiked Sample %R [D] 97 Ba An	RIX SPI Spike Added [E] 1000 tch #: nalyst: H	KE DUPLICA Duplicate Spiked Sample Result [F] 1080 1 Matrix	Spiked Dup. %R [G] 98 x: Water	<b>RPD</b> %	Control Limits %R 80-120	Limits %RPD	Flag
Reporting Units:       mg/L         Inorganic Anions by EPA 300/300.1         Analytes         Chloride         Lab Batch ID:       922267         Date Analyzed:       09/07/2013	Parent Sample Result [A] 101 QC- Sample ID:	M Spike Added [B] 1000 469763 09/06/2 M Spike	ATRIX SPIK Spiked Sample Result [C] 1070 -003 S 013 ATRIX SPIK Spiked Sample Result	E / MAT Spiked Sample %R [D] 97 Ba An E / MAT Spiked Sample	RIX SPI Spike Added [E] 1000 tch #: nalyst: F RIX SPI Spike	KE DUPLICA Duplicate Spiked Sample Result [F] 1080 1 Matrix KO KE DUPLICA Duplicate Spiked Sample	Spiked Dup. %R [G] 98 x: Water TE REC Spiked Dup.	<b>RPD</b> %	Control Limits %R 80-120	Limits %RPD 20 Control Limits	Flag
Reporting Units:     mg/L       Inorganic Anions by EPA 300/300.1       Analytes       Chloride       Lab Batch ID:     922267       Date Analyzed:     09/07/2013       Reporting Units:     mg/L	Parent Sample Result [A] 101 QC- Sample ID: Date Prepared: Parent Sample	M Spike Added [B] 1000 469763 09/06/2 M	ATRIX SPIK Spiked Sample Result [C] 1070 -003 S 013 ATRIX SPIK Spiked Sample	E / MAT Spiked Sample %R [D] 97 Ba An E / MAT Spiked	RIX SPI Spike Added [E] 1000 tch #: aalyst: H RIX SPI	KE DUPLICA Duplicate Spiked Sample Result [F] 1080 1 Matrix KO KE DUPLICA Duplicate	Spiked Dup. %R [G] 98 x: Water TE REC Spiked	RPD % 1 OVERY	Control Limits %R 80-120 STUDY Control Limits	Limits %RPD 20 Control	

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

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.
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20	(A) me	55:9	3	$\vdash$				-					15B		cyndi.inskeep@regencygas.com, phillip.little@sug.com	Report Format:		Project Loc: Lea County, NM	Pro	Project Name:	CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST t I-20 East t I-20 East Fax: 432-563-1800 Fax: 432-563-1713
	N (1		< 0 F	┢┼┤		+	$\left  \right $	+-	+	$  \cdot  $	-	TPH: TX 1005 TX 1006 Cations (Ca, Mg, Na, K)			phillip	nat:	PO #:	τLο	Project #:	Nam	RD
emp	by	usto	amp	$\vdash$		-			-		-	Anions (CI, SO4, Alkalinity)		-	).little	×	# B	<u>ال</u> ۲	.# 	e: L-5	ANL
Temperature Upon Receipt:	by Sampler/Client Rep. by Courier? UPS	Custody seals on container(s) Custody seals on container(s) Custody seals on cooler(s)	Laboratory Comments: Sample Containers Intact? VOCs Free of Headspace?	$\vdash$		1		+			-	SAR / ESP / CEC		TCLP: TOTAL:	Qsu		Bill Southern Union Gas	a Co		-5 tc	D AA
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Draft 1.000



## **XENCO** Laboratories



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

Client: Regency Gas	Acceptable Temperature Range: 0 - 6 degC						
Date/ Time Received: 09/04/2013 08:52:00 AM	Air and Metal samples Acceptable Range: Ambient						
Work Order #: 469766	Temperature Measuring device used :						
Sample Recei	pt Checklist Comments						
#1 *Temperature of cooler(s)?	12.2						
#2 *Shipping container in good condition?	Yes						
#3 *Samples received on ice?	Yes						
#4 *Custody Seals intact on shipping container/ cooler?	Yes						
#5 Custody Seals intact on sample bottles?	Yes						
#6 *Custody Seals Signed and dated?	Yes						
#7 *Chain of Custody present?	Yes						
#8 Sample instructions complete on Chain of Custody?	Yes						
#9 Any missing/extra samples?	Yes						
#10 Chain of Custody signed when relinquished/ received?	Yes						
#11 Chain of Custody agrees with sample label(s)?	Yes						
#12 Container label(s) legible and intact?	Yes						
#13 Sample matrix/ properties agree with Chain of Custody	? Yes						
#14 Samples in proper container/ bottle?	Yes						
#15 Samples properly preserved?	Yes						
#16 Sample container(s) intact?	Yes						
#17 Sufficient sample amount for indicated test(s)?	Yes						
#18 All samples received within hold time?	Yes						
#19 Subcontract of sample(s)?	Yes						
#20 VOC samples have zero headspace (less than 1/4 inch	bubble)? Yes						
#21 <2 for all samples preserved with HNO3,HCL, H2SO4?	Yes						
#22 >10 for all samples preserved with NaAsO2+NaOH, Zn	Ac+NaOH? N/A						

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

Analyst:

PH Device/Lot#:

 Checklist completed by:
 Candau fames
 Date: 09/05/2013

 Candace James
 Date: 09/05/2013

 Checklist reviewed by:
 Mawy Moath
 Date: 09/05/2013

 Kelsey Brooks
 Date: 09/05/2013

# Analytical Report 477213

for Regency Gas

**Project Manager: Rachel Johnson** 

L-5 to MF

### 15-JAN-14

Collected By: Client





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

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-13-15-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)



15-JAN-14

Project Manager: **Rachel Johnson Regency Gas** 801 South Loop 464 Monahans, TX 79756

Reference: XENCO Report No(s): 477213 L-5 to MF Project Address: NM

#### Rachel Johnson:

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) 477213. 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. 477213 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.

Kms Boah

 

 Kelsey Brooks

 Project Manager

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# Sample Cross Reference 477213



## Regency Gas, Monahans, TX

L-5 to MF

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-1	W	01-09-14 10:48		477213-001
MW-1	W	01-09-14 10:49		477213-002





Client Name: Regency Gas Project Name: L-5 to MF

Project ID: Work Order Number(s): 477213 
 Report Date:
 15-JAN-14

 Date Received:
 01/09/2014

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



**Project Id:** 

Project Location: NM

Contact: Rachel Johnson

## Certificate of Analysis Summary 477213

Regency Gas, Monahans, TX

Project Name: L-5 to MF



Date Received in Lab: Thu Jan-09-14 03:20 pm Report Date: 15-JAN-14 Project Manager: Kelsey Brooks

						Project Manager:	Kelsey Brooks	
	Lab Id:	477213-0	001	477213-00	)2			
Analysis Paguested	Field Id:	MW-1		MW-1				
Analysis Requested	Depth:							
	Matrix:	WATEI	R	WATER				
	Sampled:	Jan-09-14 1	10:48	Jan-09-14 10	):49			
BTEX by EPA 8021B	Extracted:	Jan-13-14 1	11:00					
	Analyzed:	Jan-13-14 1	17:13					
	Units/RL:	mg/L	RL					
Benzene		0.0258	0.00100					
Toluene		ND	0.00200					
Ethylbenzene		0.00344	0.00100					
m_p-Xylenes		0.00444	0.00200					
o-Xylene		ND	0.00100					
Total Xylenes		0.00444	0.00100					
Total BTEX		0.0337	0.00100					
Inorganic Anions by EPA 300/300.1	Extracted:			Jan-13-14 16	5:02			
	Analyzed:			Jan-13-14 16	5:02			
	Units/RL:			mg/L	RL			
Chloride				103	5.00			
TPH By SW8015 Mod	Extracted:	Jan-13-14 1	10:56					
SUB: TX104704215	Analyzed:	Jan-13-14 1	13:18					
	Units/RL:	mg/L	RL					
C6-C12 Gasoline Range Hydrocarbons		ND	1.37					
C12-C28 Diesel Range Hydrocarbons		ND	1.37					
C28-C35 Oil Range Hydrocarbons		ND	1.37					
Total TPH		ND	1.37					

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.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Huns Roah

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 quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- \*\* Surrogate recovered outside laboratory control limit.
- **BRL** Below Reporting Limit.
- RL Reporting Limit

MDL Method Detection Limit	SDL Sample Detection Limit	LOD Limit of Detection
PQL Practical Quantitation Limit	MQL Method Quantitation Limit	LOQ Limit of Quantitation

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

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5332 Blackberry Drive, San Antonio TX 78238
2505 North Falkenburg Rd, Tampa, FL 33619
12600 West I-20 East, Odessa, TX 79765
6017 Financial Drive, Norcross, GA 30071
3725 E. Atlanta Ave, Phoenix, AZ 85040

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(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	

Phone

Final 1.000



# Form 2 - Surrogate Recoveries

## Project Name: L-5 to MF

	rders: 47721 #: 931858	3, Sample: 477213-001 / SMP	Bate	Project ID h: 1 Matrix	: K: Water		
Units:	mg/L	<b>Date Analyzed:</b> 01/13/14 13:18	SU	RROGATE F	RECOVERY	STUDY	
	TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flage
		Analytes			[D]		
1-Chlorooct	ane		7.57	9.14	83	70-135	
o-Terpheny	1		5.21	4.57	114	70-135	
Lab Batch	<b>#:</b> 931889	Sample: 477213-001 / SMP	Batc	h: 1 Matrix	: Water		
Units:	mg/L	Date Analyzed: 01/13/14 17:13	SU	RROGATE F	RECOVERY	STUDY	
	BTEX	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluoro	benzene	Anarytes	0.0255	0.0300		80-120	
4-Bromoflu			0.0255	0.0300	85	80-120	
	#: 931858	Sample: 649637-1-BLK / BI			Water	80-120	
Lab Batch Units:	mg/L	<b>Date Analyzed:</b> 01/13/14 12:08					
Units:	ing/L	Date Analyzeu: 01/13/14 12.08	SU	RROGATE F	RECOVERY	STUDY	
	TPH ]	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooct	ane		8.09	10.0	81	70-135	
o-Terpheny	1		5.56	5.00	111	70-135	
Lab Batch	#: 931889	Sample: 649640-1-BLK / BI	LK Bate	h: 1 Matrix	K: Water	1	
Units:	mg/L	Date Analyzed: 01/13/14 16:57	SU	RROGATE F	RECOVERY	STUDY	
	BTEX	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluoro	obenzene		0.0256	0.0300	85	80-120	
4-Bromoflu			0.0257	0.0300	86	80-120	
Lab Batch	#: 931858	Sample: 649637-1-BKS / BI	KS Bate	h: 1 Matrix	: Water		
Units:	mg/L	Date Analyzed: 01/13/14 12:33	SU	RROGATE F	RECOVERYS	STUDY	
	TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooct	ane		9.39	10.0	94	70-135	
o-Terpheny	1		5.03	5.00	101	70-135	

\* Surrogate outside of Laboratory QC limits

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

\*\*\* Poor recoveries due to dilution

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

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



# Form 2 - Surrogate Recoveries

## Project Name: L-5 to MF

	r <b>ders :</b> 47721 #: 931889	3, Sample: 649640-1-BKS / B	KS Batcl	Project ID h: 1 Matrix	: Water		
Units:	mg/L	Date Analyzed: 01/13/14 15:37	SU	RROGATE R	ECOVERY	STUDY	
	BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		1
1,4-Difluor	obenzene		0.0299	0.0300	100	80-120	
4-Bromoflu	orobenzene		0.0303	0.0300	101	80-120	
Lab Batch	#: 931858	Sample: 649637-1-BSD / B	SD Batc	h: 1 Matrix	Water		
Units:	mg/L	Date Analyzed: 01/13/14 12:56	SU	RROGATE R	ECOVERY	STUDY	
	TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooc	tane	Analytes	9.58	10.0	96	70-135	
o-Terpheny	1		4.95	5.00	99	70-135	
	#: 931889	Sample: 477213-001 S / MS			: Water		
Units:	mg/L	Date Analyzed: 01/13/14 16:09	SU	RROGATE R	ECOVERY	STUDY	
	BTE	X by EPA 8021B	Amount Found	True Amount	Recovery	Control Limits	Flags
		Analytes	[A]	[B]	%R [D]	%R	1
1,4-Difluor	obenzene		0.0292	0.0300	97	80-120	·
4-Bromoflu	orobenzene		0.0294	0.0300	98	80-120	
Lab Batch	#: 931889	Sample: 477213-001 SD / N	ASD Batc	h: 1 Matrix	: Water		
Units:	mg/L	Date Analyzed: 01/13/14 16:25	SU	RROGATE R	ECOVERY	STUDY	
	BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluor	obenzene		0.0296	0.0300	99	80-120	
· ·	orobenzene		0.0290	0.0300	96	80-120	

\* Surrogate outside of Laboratory QC limits

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

\*\*\* Poor recoveries due to dilution

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

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



# **Blank Spike Recovery**



## **Project Name: L-5 to MF**

Work Order #:	477213				Project ID:	:		
Lab Batch #:	Sample: 649	9640-	1-BKS	Matrix:	Water			
Date Analyzed:	01/13/2014	Date Prepared: 01/	13/20	)14	Analyst:			
<b>Reporting Units:</b>	mg/L	Batch #:	1	BLANK /B	LANK SPII	KE REC	COVERY S	TUDY
	BTEX by EPA 8021B	Blank Result [A]		Spike Added [B]	Blank Spike Result	Blank Spike %R	Control Limits %R	Flags
	Analytes			[0]	[C]	[D]	701	
Benzene		<0.0010	0	0.100	0.0905	91	70-125	
Toluene		<0.0020	0	0.100	0.0882	88	70-125	
Ethylbenzene		<0.0010	0	0.100	0.0910	91	71-129	
m_p-Xylenes		<0.0020	0	0.200	0.188	94	70-131	
o-Xylene		<0.0010	0	0.100	0.0948	95	71-133	



## **BS / BSD Recoveries**



#### Project Name: L-5 to MF

Work Order #: 477213							Proj	ject ID:				
Analyst: AMB	D	ate Prepar	ed: 01/13/20	14		<b>Date Analyzed:</b> 01/13/2014						
Lab Batch ID: 931977 Sample: 649635-1-1	BKS	Batcl	<b>h #:</b> 1		Matrix: Water							
Units: mg/L		BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Inorganic Anions by EPA 300/300.1	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	
Analytes												
Chloride	<1.00	25.0	22.9	92	25.0	23.1	92	1	90-110	20		
Analyst: FOV			ed: 01/13/20	14		I	Date A	nalyzed: (	01/13/2014		ļ]	
Analyst:         FOV           Lab Batch ID:         931858         Sample:         649637-1-1	D		ed: 01/13/20	14		<u> </u>		nalyzed: ( Matrix: )		<u> </u>	<u> </u>	
	D	ate Prepar Batcl	ed: 01/13/20		BLANK	SPIKE DUP		Matrix:	Water	DY	I	
Lab Batch ID:         931858         Sample:         649637-1-1           Units:         mg/L           TPH By SW8015 Mod	D	ate Prepar Batcl	ed: 01/13/20		BLANK S Spike Added [E]	SPIKE DUP Blank Spike Duplicate Result [F]		Matrix:	Water	DY Control Limits %RPD	Flag	
Lab Batch ID:         931858         Sample:         649637-1-1           Units:         mg/L	D BKS Blank Sample Result	ate Prepar Batcl BLAN Spike Added	ed: 01/13/20 n #: 1 K /BLANK Blank Spike Result	SPIKE / ] Blank Spike %R	Spike Added	Blank Spike Duplicate	LICATE Blk. Spk Dup. %R	Matrix: RECOV	Water ERY STUI Control Limits	Control Limits	Flag	

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

XENCO
Laboratories

# Form 3 - MS Recoveries

**Project Name: L-5 to MF** 



Work Order #: 477213									
Lab Batch #: 931977	Project ID:								
<b>Date Analyzed:</b> 01/13/2014	Date Prepared: 01/13/2014 Analyst: AMB								
<b>QC- Sample ID:</b> 477208-001 S	Batch #: 1 Matrix: Water								
Reporting Units: mg/L	MATR	IX / MA'	TRIX SPIKE	RECO	VERY STU	DY			
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag			
Analytes	[1+]	[D]							
Chloride	60.6	125	183	98	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: L-5 to MF**



Work Order # :	477213						Project II	):				
Lab Batch ID:	931889	<b>QC- Sample ID:</b> 477213-001 S			Ba	tch #:	1 Matrix	<b>:</b> Water				
Date Analyzed:	01/13/2014	<b>Date Prepared:</b> 01/13/2014			An	alyst: J	UM					
<b>Reporting Units:</b>	mg/L	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
1	BTEX by EPA 8021B	Parent Sample	Spike	Spiked Sample Result	Sample	Spike	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	
Benzene		0.0258	0.100	0.112	86	0.100	0.115	89	3	70-125	25	
Toluene		< 0.00200	0.100	0.0912	91	0.100	0.0925	93	1	70-125	25	
Ethylbenzene		0.00344	0.100	0.0989	95	0.100	0.0998	96	1	71-129	25	
m_p-Xylenes		0.00444	0.200	0.201	98	0.200	0.203	99	1	70-131	25	
o-Xylene		<0.00100	0.100	0.0991	99	0.100	0.0997	100	1	71-133	25	

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

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

1 Sigh	Delivered by:	Relinquished by:	N BYY	Sampler Relinquished:		DT	2	9	8	7	6	5	- 4	3	2 MW-1	477213 1 MW-1	LAB I.D.		EPI Sampler Name	Project Reference	Location	Facility Name	Client Company	EPI Phone#/Fax#	City, State, Zip	Mailing Address	EPI Project Manager	Company Name	2100 Avenue O, Eunice, NM 88231 (575) 394-3481   FAX: (575) 394-26	And in Online in the Lines
Ves No	つ. S Sampt	Tinges: 4 8	06 8.	1-0-14											V-1	V-1	SAMPLE I.D.		Kirby Bingham			L-5 to MF	Regency	575-394-3481 / 575-394-2601	Eunice New Mexico 88231	P.O. BOX 1558	r Daniel Dominguez	Environmental Plus, Inc.	Eunice, NM 88231 FAX: (575) 394-2601	and a read and
S	e Cool	Kece	1	Kece	1		T	1							G	G	(G)RAB OR (C)OM	P.	1					394-:	882			, Inc	P.C	
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:		(lab staff)	2				Т										WASTEWATER	]											155	
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				E-mail results to: ddominguezepi@gmail.com & rachel.johnson@regencygas.com											09-Jan-14	09-Jan-14	DATE	SAMPLING							rachel.johnson@regencygas.com	Attn: Rachel Johnson		70		
				yuezepi@gn											10:49	10:48	TIME	NG							m					
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				shel.			T										SULFATES (SO₄ <sup>⁼</sup> )											VAL	L/	
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Page 1 of 1



## **XENCO** Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: Regency Gas	Acceptable Temperature Range: 0 - 6 degC
Date/ Time Received: 01/09/2014 03:20:00 PM	Air and Metal samples Acceptable Range: Ambient
Work Order #: 477213	Temperature Measuring device used :
Sample Recei	pt Checklist Comments
#1 *Temperature of cooler(s)?	7.3
#2 *Shipping container in good condition?	N/A
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	Νο
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	Yes
#20 VOC samples have zero headspace (less than 1/4 inch l	bubble)? Yes
#21 <2 for all samples preserved with HNO3,HCL, H2SO4?	Yes
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnA	.c+NaOH? N/A

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

Analyst:

PH Device/Lot#:

Date: 01/10/2014

Checklist completed by: Mms Moah Kelsey Brooks Checklist reviewed by: Mms Moah Kelsey Brooks

Date: 01/10/2014

# Analytical Report 480359

for Regency Gas

Project Manager: Joel Lowry L5 to MF Historical SUG 0009

### 06-MAR-14

Collected By: Client





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

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

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

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





06-MAR-14 Project Manager: **Joel Lowry Regency Gas** 801 South Loop 464 Monahans, TX 79756

Reference: XENCO Report No(s): **480359 L5 to MF Historical SUG 0009** Project Address: Lea County, NM

#### Joel Lowry:

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) 480359. 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. 480359 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.

Ams Boah

 

 Kelsey Brooks

 Project Manager

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Sample Id

MW-1

# Sample Cross Reference 480359



## Regency Gas, Monahans, TX

L5 to MF Historical SUG 0009

Matrix	Date Collected	Sample Depth	Lab Sample Id
W	02-28-14 11:00		480359-001





Client Name: Regency Gas Project Name: L5 to MF Historical SUG 0009

Project ID: Work Order Number(s): 480359 
 Report Date:
 06-MAR-14

 Date Received:
 02/28/2014

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



#### Project Id: Contact: Joel Lowry Project Location: Lea County, NM

Regency Gas, Monahans, TX

Project Name: L5 to MF Historical SUG 0009



Date Received in Lab: Fri Feb-28-14 03:40 pm

Report Date: 06-MAR-14

Project Manager: Kelsey Brooks

	Lab Id:	480359-001			
Analysis Requested	Field Id:	MW-1			
Analysis Kequesiea	Depth:				
	Matrix:	WATER			
	Sampled:	Feb-28-14 11:00			
BTEX by EPA 8021B	Extracted:	Mar-03-14 15:00			
	Analyzed:	Mar-04-14 13:49			
	Units/RL:	mg/L RL			
Benzene		ND 0.00100			
Toluene		ND 0.00200			
Ethylbenzene		ND 0.00100			
m,p-Xylenes		ND 0.00200			
o-Xylene		ND 0.00100			
Total Xylenes		ND 0.00100			
Total BTEX		ND 0.00100			
Inorganic Anions by EPA 300/300.1	Extracted:	Mar-04-14 02:19			
	Analyzed:	Mar-04-14 02:19			
	Units/RL:	mg/L RL			
Chloride		117 10.0			

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.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Huns Boah

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 quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- \*\* Surrogate recovered outside laboratory control limit.
- BRL Below Reporting Limit.
- RL Reporting Limit

MDL Method Detection Limit	SDL Sample Detection Limit	LOD Limit of Detection
PQL Practical Quantitation Limit	MQL Method Quantitation Limit	LOQ Limit of Quantitation

- **DL** Method Detection Limit
- NC Non-Calculable
- + NELAC certification not offered for this compound.
- (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	



# Form 2 - Surrogate Recoveries Project Name: L5 to MF Historical SUG 0009

	<b>:ders :</b> 48035 #: 935419	59, Sample: 480359-001 / SMP	Batch	Project ID a: 1 Matrix	: x: Water		
Units:	mg/L	Date Analyzed: 03/04/14 13:49	SU	RROGATE R	RECOVERY S	STUDY	
	BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluor	obenzene		0.0274	0.0300	91	80-120	
4-Bromoflu	orobenzene		0.0268	0.0300	89	80-120	
Lab Batch	#: 935419	Sample: 651907-1-BLK / BL	K Batch	a: 1 Matrix	: Water		
Units:	mg/L	Date Analyzed: 03/04/14 08:44	SU.	RROGATE R	RECOVERY S	STUDY	
	BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluor	benzene	Analytes	0.0279	0.0300	93	80-120	
4-Bromoflu			0.0279	0.0300	93	80-120	
	#: 935419	Sample: 651907-1-BKS / BK			Water	80-120	
Units:	mg/L	<b>Date Analyzed:</b> 03/04/14 09:00					
Cints.	ing/L	Date Analyzeu. 03/04/14 02.00	<b>S</b> U.	RROGATE R	ECOVERY S	STUDY	
	BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluor	obenzene		0.0308	0.0300	103	80-120	
4-Bromoflu	orobenzene		0.0321	0.0300	107	80-120	
Lab Batch	#: 935419	Sample: 651907-1-BSD / BS	D Batch	n: 1 Matrix	Water		
Units:	mg/L	Date Analyzed: 03/04/14 09:16	SU	RROGATE R	RECOVERY	STUDY	
	BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
		Analytes					
1,4-Difluor			0.0301	0.0300	100	80-120	
4-Bromoflu		Q	0.0317	0.0300	106	80-120	
	#: 935419	Sample: 480361-002 S / MS	Batch		: Water		
Units:	mg/L	<b>Date Analyzed:</b> 03/04/14 09:32	SU	RROGATE R	RECOVERY S	STUDY	
	BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluor	hanzana	Anary tto	0.0201	0.0200		80.120	
			0.0301	0.0300	100	80-120	
4-Bromoflu	orobenzene		0.0320	0.0300	107	80-120	

\* Surrogate outside of Laboratory QC limits

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

\*\*\* Poor recoveries due to dilution

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

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



# Form 2 - Surrogate Recoveries Project Name: L5 to MF Historical SUG 0009

Work Ord Lab Batch #		59, Sample: 480361-002 SD / N	MSD Batch	Project ID: n: 1 Matrix:	Water		
Units:	mg/L	Date Analyzed: 03/04/14 09:48	SU	RROGATE RE	COVERY S	STUDY	
	BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorob	enzene		0.0301	0.0300	100	80-120	
4-Bromofluor	robenzene		0.0318	0.0300	106	80-120	

\* Surrogate outside of Laboratory QC limits

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

\*\*\* Poor recoveries due to dilution

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

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



## **BS / BSD Recoveries**



#### Project Name: L5 to MF Historical SUG 0009

Work Order	#: 480359							Proj	ect ID:			
Analyst:	ARM	D	ate Prepar	ed: 03/03/202	14			<b>Date Analyzed:</b> 03/04/2014				
Lab Batch ID:	<b>Sample:</b> 651907-1-	BKS	Batch	<b>ch #:</b> 1 <b>Matrix:</b> Water								
Units:	ts: mg/L BLANK /BLANK S						SPIKE DUP	LICATE	RECOV	ERY STUI	ΟY	
	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
Analy	tes		[B]	[C]	[D]	[E]	Result [F]	[G]				
Benzene		< 0.00100	0.100	0.103	103	0.100	0.0987	99	4	70-125	25	
Toluene		< 0.00200	0.100	0.101	101	0.100	0.0971	97	4	70-125	25	
Ethylbenze	ene	<0.00100	0.100	0.106	106	0.100	0.102	102	4	71-129	25	
m,p-Xylen	es	<0.00200	0.200	0.218	109	0.200	0.212	106	3	70-131	25	
o-Xylene		< 0.00100	0.100	0.111	111	0.100	0.108	108	3	71-133	25	
Analyst:	AMB	D	ate Prepar	ed: 03/03/202	14			Date A	nalyzed: (	03/03/2014	•	
Lab Batch ID:	<b>Sample:</b> 651848-1-	BKS	Batch	<b>n #:</b> 1					Matrix: V	Water		
Units:	mg/L		BLAN	K/BLANK	SPIKE / ]	BLANK S	SPIKE DUP	LICATE	RECOV	ERY STUI	DY	
Inorga Analy	anic Anions by EPA 300/300.1 tes	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		<1.00	25.0	26.3	105	25.0	25.7	103	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

XENCO Laboratories Projec	Form 3 - MS I t Name: L5 to MF H			9	SUP NCCA	OM
Work Order #: 480359         Lab Batch #:       935550         Date Analyzed:       03/03/2014         QC- Sample ID:       480355-001 S         Reporting Units:       mg/L	<b>Date Prepared:</b> 03/03/ <b>Batch #:</b> 1		A	ect ID: analyst: A Matrix: V	Vater	TDV/
Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride           Lab Batch #:         935550	1350	1250	2830	118	80-120	
Date Analyzed:         03/03/2014           QC- Sample ID:         480358-001 S           Reporting Units:         mg/L	Date Prepared: 03/03/ Batch #: 1 MATRI			Analyst: A Matrix: V RECO	Vater	DY
Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	1220	1250	2700	118	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: L5 to MF Historical SUG 0009

Work Order # :	480359						Project ID	):				
Lab Batch ID:	935419	QC- Sample ID:	480361	-002 S	Ba	tch #:	1 Matrix	: Water				
Date Analyzed:	03/04/2014	Date Prepared:	03/03/2	014	An	alyst: A	ARM					
<b>Reporting Units:</b>	mg/L		Μ	ATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	FE REC	OVERY	STUDY		
]	BTEX by EPA 8021B	Parent Sample	Spike	Spiked Sample Result	Sample	Spike	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	
Benzene		<0.00100	0.100	0.0938	94	0.100	0.0963	96	3	70-125	25	
Toluene		<0.00200	0.100	0.0925	93	0.100	0.0945	95	2	70-125	25	
Ethylbenzene		<0.00100	0.100	0.0976	98	0.100	0.0995	100	2	71-129	25	
m,p-Xylenes		<0.00200	0.200	0.202	101	0.200	0.206	103	2	70-131	25	
o-Xylene		<0.00100	0.100	0.102	102	0.100	0.105	105	3	71-133	25	

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

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Relinquished by: Relinquished by: Relinquished by:							1		LAB # (lab use only)	ORDER #:	(lab use only)		Sa	Tel	Cit	Co	Co	Prc		Xenc
y: V							1 20	A (a) - F	뀨		480359		Sampler Signature:	Telephone No:	City/State/Zip:	Company Address:	Company Name	Project Manager:		n Labo
2.									FIELD CODE	1 1	2 V	man	H. I. I. H.	(575)396-2378	Lovington, NM 88260	: P.O. Box 301	Basin Environmental Service Technologies, LLC	Joel Lowry		Xenco Laboratories
Date 28-141 2 Date									Basianian Darith		<u>Course</u>	0	X	þ	8260		ental Servic			
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Ę							Th	11	GW = Groundwater S=Soil/Soli	Matrix				Rep				_	וא טר כטטו עש העבערש איזע אואבריאא אבעטביו East Phone: 432-563-1800 Fax: 432-563-1713	5
Time							_	-	NP=Non-Potable Specify Othe TPH: 418.1 <b>8015M</b> 801		L			Report Format:		Pro	_	Proje		
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Sa Sa Sa								-+	Cations (Ca, Mg, Na, K)	-				at:	PO #:	Project Loc:	Project #:	Project Name:		5
Laboratory Comments: Sample Containers Intact? VOCs Free of Headspace? Labels on container(s) Custody seals on container(s) Custody seals on cooler(s) Sample Hand Delivered by Sampler/Client Rep. ?								1	Anions (CI, SO4, Alkalinity)		10			×	l.	Lea	l.	23	IND	5
Con Con con con con con con con con con con c								-	SAR / ESP / CEC		TCLP: TOTAL:			Star	R	Co	S	S	F	ANI
Con taine of He of He nutaii ontaii ontaii ontaii ontaii ontai ont				_	_				Metals: As Ag Ba Cd Cr Pb Hg S	Se		Ana		Standard	eg	County, NM	10	5	Phone: 432-563-1800 Fax: 432-563-1713	214
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							1	×	Standard TAT 4 DAY			-			1					

Final 1.000



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



Client: Regency Gas	Acceptable Temperature Range: 0 - 6 degC
Date/ Time Received: 02/28/2014 03:40:00 PM	Air and Metal samples Acceptable Range: Ambien
Work Order #: 480359	Temperature Measuring device used :
Sample Rece	ipt Checklist Comments
#1 *Temperature of cooler(s)?	4
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 Custody Seals intact on sample bottles?	Yes
#6 *Custody Seals Signed and dated?	Yes
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody	? Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	Νο
#20 VOC samples have zero headspace (less than 1/4 inch	bubble)? Yes
#21 <2 for all samples preserved with HNO3,HCL, H2SO4?	Yes
#22 >10 for all samples preserved with NaAsO2+NaOH, Zn.	Ac+NaOH? Yes

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

Analyst:

PH Device/Lot#:

Checklist completed by:

( July Charles Ruriko Konuma

Date: 03/03/2014

Checklist reviewed by:

ms Hoan Kelsey Brooks

Date: 03/03/2014



APPENDIX D

Manifests

5.4.6.5.
14R-16" X L-5 2008 mag
3-23-09
4-LOADS TO CELL * 6
DOUTILLO ENVIRONMENTAL, LLC
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COMPANY SU.C.S.
PROUNDER LAND FARM
ADDRESS ATE Pro-
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5.4.6.5.
MF-16" X L-5 2009-00 8
3-23-09
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4-Londs To CELL #6
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4-Londs TO CELL #6 (NOTILLO ENVIRONMENTAL. LLC BOURS WORKED
4-LOADS FOCELL#6 (NOTILLOENVIRONMENTALILLO TOURS WORKED/O/O TRUCKER/O/O/O/O
4-LOADS FOCELL#6 (NOTILLOENVIRONMENTALILLO TOURS WORKED/O/O TRUCKER/O/O/O/O
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4-LORDS FOCELL#6 (NOTILLOENVIRONMENTAL.LLC DOLRS WORKED/O TRICKERCOMBS2DOLMETRICEN*/108 DATE 3-23-09 ADDRESS COMPANYS4.6.5. PLOANER LAND FORMAL-DOL48 RATEA ADDRESSALEDSA
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4-LORDS FOCELL#6 (NOTILLOENVIRONMENTAL.LLC DOLRS WORKED/0
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TRUCKER <u>L. Co</u> ADDRESS COMPANY <u>54.6</u>	MF X L. 5, X-OVEN 2009-008 3-27-09 5- LOADS TO CELL #6 MOTILLOENVIRONMENTAL.ILC 9 PER HOUR # MB S 12YD DUMP TRUCK# DATE 3-27-09
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TRUCKER <u>L. Con</u> ADDRESS COMPANY <u>S4.6</u> PITOWNER <u>LAN d</u> FA ADDRESS	MF X L-5, X-0VEH         2009-008         3-27-09         5-608ds To CELE #6         IN OFFILIO ENVIRONMENTAL.ILC         9       PER HOUR #         Mbs       /2YD DUMP TRUCK#//08 DATE 3-27-09         5-5.         9       TOTAL YDS_60_RATE
TRUCKER <u>L. Con</u> ADDRESS COMPANY <u>S4.6</u> PITOWNER <u>LAND FR</u> ADDRESS <u>XV X X</u>	MF X L.5, X-0VEH         2009-008         3-27-09         5-608ds To CELE #6         IN OFFILIO ENVIRONMENTAL.ILC         9       PER HOUR #         9       PER HOUR #

DDRESS
RUCKER <u>C.L. CARVER</u> 12YD DUMP TRUCK <sup>*</sup> 1107 DATE <u>3-27-09</u> DDRESS FOMPANY S4.6.5.
COMPANY
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PITOWNER LAND FARM TOTAL YDS 60 RATE TOTAL
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S.4.6.5. MFXL-5. +-OVER
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MFXL-5 +-OVER 2009-068 3-30-09 6-LOBDS TO CELL # 6 NOTILLOENTRONMENTAL.ILC HOURS WORKED 10 PER HOUR \$ TRUCKER L-COMPS 12YD DUMP TRUCK 1/08 DATE 3-30-09 ADDRESS
MF XL-5, +-OVER 2009-068 3-30-09 6-LOADS TO CELL # 6 NOTILLOENVIRONMENTAL.ILC HOURS WORKED 10 PER HOUR \$ TRUCKER L-COMPS 12YD DUMP TRUCK 1/08 DATE 3-30-09 ADDRESS COMPANY \$4.6.5.
MF X L-S +-OVER 2009-068 3-30-09 6-LOBDS TO CELL # 6 NOTILLOENVIRONMENTAL.ILC HOURS WORKED 10 PER HOUR \$ TRUCKER L-COMPS 12YD DUMP TRUCK \$108 DATE 3-30-09 ADDRESS COMPANY SU.G.S. NTOWNER LAND FARM TOTAL YDS 72 RATE TOTAL
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MF X L-S +-OVER 2009-058 3-30-09 6-LOBDS TO CELL # 6 NOTILLO ENVIRONMENTAL.ILC HOURS WORKED 10 PER HOUR \$ TRUCKER <u>L-COMPS IZYD DUMP TRUCK 108 DATE 3-30-09</u> ADDRESS ADDRESS COMPANY <u>SU.G.S.</u> PIT OWNER <u>LAND FARM</u> TOTAL YDS 72 RATE TOTAL DATE PAID <u>CK NO</u> 0405 Y Y Y
MF XL-5 +-OVER 2009-068 3-30-09 6-408ds To CELL # 6

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	448 XL-5, +-048 2009-008-1 3-31-09 6-60805 TO CELL #	TAL. LLC		
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HOURS WORKED       JO       FER HOUR #         TRUCKER       L. Com bs       DYD DUMP TRUCK #       DATE 4-2-09         ADDRESS			
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6-40	54.6.3. M.FXL-5, + - OVER 2009-00'8 4-15-09 DAds To CELL# 9
	OTILIO ENVIRONMENTAL, LLS
HOURS WORKED 10	
TRUCKER _ C.L. CARI	PER HOUR \$ BR 12YD DUMP TRUCK #107 DATE 4-15-09
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COMPANY	
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HOURS WORKED <u>10</u> TRUCKER <u>E. DIXO</u> ADDRESS	MAFR X L-5, + -0489 2009-008 4-15-09 - LOADS TO CELL # 2 DER HOUR 2 M 12YD DUMP TRUCK 108- DATE 4-15-09
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A OTILI OFNATRONMENTAL, ILC
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COMPANY _ 54.6.5.	
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5-LOAds TO CELL # 7 NOTILIOFNIRONMENTALILL HOURS WORKED 10 PER HOUR \$ TRUCKER CL. CARVER 12YD DUMPTRUCK 107 DATE 4-29-09 ADDRESS	54.6.3. M-FXL-5. +-0VER (NORTH) 2009-008. 4-29-09
HOLDENTROMENTALIN         HOURS WORKED       10       PERHOUR #         TRUCKER       CL. CAANER       ISYD DUMP TRUCK <sup>#</sup> /102       DATE (4-22-02)         ADDRESS       SUI 6-S.         PIT OWNER       LAND FARM       TOTAL YDS 60 RATE       TOTAL         ADDRESS       DATE PAID       CK MD         XXXXXX       TOTAL YDS 60 RATE       TOTAL         XXXXX       TOTAL YDS 60 RATE       TOTAL         YXXXX       TOTAL YDS 60 RATE       TOTAL         YXXXXX       TOTAL YDS 60 RATE       TOTAL         YXXXX       TOTAL YDS 60 RATE       TOTAL         YXXXX       SH 6 S.       TOTAL YDS 60 RATE       TOTAL         YXXXXX       SH 6 S.       TOTAL YDS 60 RATE       TOTAL         YXXXXX       SH 6 S.       TOTAL YDS 60 RATE       TOTAL	
HOURS WORKED       10       PER HOUR #         TRUCKER       CL. CARVER       ISYD DUMP TRUCK <sup>#</sup> /102       DA TE 4-29-02         ADDRESS	
TRUCKER       CL. CARVER       I3YD DUMP TRUCK       DA TE 4-29-09         ADDRESS	
COMPANY <u>SUISS</u> COMPANY <u>SUISS</u> PITOWNER <u>Land</u> <u>FARM</u> <u>TOTAL YDS <u>SO</u> <u>RATE</u> <u>TOTAL</u> ADDRESS <u>DATE PAID</u> <u>CK NO</u> <u>XXXXX</u> <u>XXXXX</u> <u>XXXXX</u> <u>XXXXX</u> <u>XXXXX</u> <u>XXXXX</u> <u>XXXXX</u> <u>XXXXX</u> <u>XXXXX</u> <u>XXXXX</u> <u>XXXXX</u> <u>XXXXX</u> <u>XXXXX</u> <u>XXXXX</u> <u>XXXXX</u> <u>XXXXX</u> <u>XXXXX</u> <u>XXXXX</u> <u>XXXXX</u> <u>XXXXX</u> <u>XXXXX</u> <u>XXXXX</u> <u>XXXXX</u> <u>XXXXX</u> <u>XXXXX</u> <u>XXXXX</u> <u>XXXXX</u> <u>XXXXX</u> <u>XXXXX</u> <u>XXXXX</u> <u>XXXXX</u> <u>XXXXX</u> <u>XXXXX</u> <u>XXXXX</u> <u>XXXXX</u> <u>XXXXX</u> <u>XXXXX</u> <u>XXXXX</u> <u>XXXXX</u> <u>XXXXX</u> <u>XXXXX</u> <u>XXXXX</u> <u>XXXXX</u> <u>XXXXXX</u> <u>XXXXXX</u> <u>XXXXXX</u> <u>XXXXXX</u> <u>XXXXX</u> <u>XXXXX</u> <u>XXXXXX</u> <u>XXXXXX</u> <u>XXXXXX</u> <u>XXXXXX</u></u>	PER HOUR #
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IN OTILLOENVIRONMENTAL, LLC
HOURS WORKED
TRUCKER <u>L. Comps</u> 12YD DUMPTRUCK <sup>#</sup> 108 DATE 5-7-09
ADDRESS TATO DUMP TRUCK 1108 DATE 5-7-09
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APPENDIX E

Initial and Final C-141

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

## State of New Mexico Energy Minerals and Natural Resources

Form C-141 . Revised October 10, 2003

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 2009-008 Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

			Rel	ease Notifi	catio	n and C	orrective A	ction				
					•	<b>OPERA</b>			tial Report   Final Report			
Name of C	ompany	South	ern Unio	n Gas Services,	Ltd.	Contact			Tony Savoie			
Address				226 Jal, N.M. 8		and the second se	Toly Savole					
Facility Na	me			a County Field I			Telephone No.         505-395-2116           Facility Type         Natural Gas Gathering					
Surface Ov	vner: Milla	rd Deck		Mineral (	Owner:	: State		Lease				
				LOCA	ATIO	N OF RE	LEASE API		39231.00.00			
Unit Letter O	etter Section Township Range Feet from the Nor 15 21S 37E					h/South Line	Feet from the	East/West Line	Line County Lea			
				Latitude N32 NAT	2 28.32 TURE	of Longitud	le W103 9.077		1			
Type of Rele	ase : Crude	Oil, and Nata	ral Gas			Volume of	Release: Greater as Greater than 5	than Volume bbls	Recovered NONE			

	Volume of Release: Greater than 50 MCF gas Greater than 5 bbls crude oil	Volume Recovered NONE
Source of Release : 10" Natural Gas Pipeline	Date and Hour of Occurrence not known	Date and Hour of Discovery 1/7/09 9:07 a.m.
Was Immediate Notice Given?	If YES, To Whom?	
By Whom? Tony Savoie	Date and Hour:	
Was a Watercourse Reached?	If YES, Volume Impacting the Wat	ercourse.
Describe Cause of Problem and Remedial Action Taken.*		
The 10" Natural gas pipeline developed a leak prior to the disco leak clamps had been installed on the pipeline. There were no f during the discovery that were oil stained. One area measured a 40 ft. X 20 ft.	upproximately 10 ft. X 18 ft. and the or	covery. There were 2 areas noted ther measured approximately
Describe Area Affected and Cleanup Action Taken. Approximately 13	40 sq.ft. of pasture land was affected by the	the leak and temporary repair Final
Describe Area Affected and Cleanup Action Taken. Approximately 13 remediation will follow the NMOCD recommended guidelines for lead hereby certify that the information given above is true and complete t egulations all operators are required to report and/or file certain releas public health or the environment. The acceptance of a C-141 report by should their operations have failed to adequately investigate and remed or the environment. In addition, NMOCD acceptance of a C-141 report ederal, state, or local laws and/or regulations.	to the best of my knowledge and understand e notifications and perform corrective actions the NMOCD marked as "Final Report" d	id that pursuant to NMOCD rules and ons for releases which may endanger oes not relieve the operator of liability
hereby certify that the information given above is true and complete the egulations all operators are required to report and/or file certain release bublic health or the environment. The acceptance of a C-141 report by hould their operations have failed to adequately investigate and remeder the environment. In addition, NMOCD acceptance of a C-141 report ederal, state, or local laws and/or regulations.	to the best of my knowledge and understar o the best of my knowledge and understar e notifications and perform corrective acti the NMOCD marked as "Final Report" d liate contamination that pose a threat to gr t does not relieve the operator of responsi OIL CONSERV	id that pursuant to NMOCD rules and ons for releases which may endanger oes not relieve the operator of liability
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hereby certify that the information given above is true and complete the egulations all operators are required to report and/or file certain releas ublic health or the environment. The acceptance of a C-141 report by hould their operations have failed to adequately investigate and remed in the environment. In addition, NMOCD acceptance of a C-141 report oderal, state, or local laws and/or regulations.	Approval Date: 3.24.09	At that pursuant to NMOCD rules and ons for releases which may endanger oes not relieve the operator of liability ound water, surface water, human healt bility for compliance with any other ATION DIVISION

\* Attach Additional Sheets If Necessary

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State of New Mexico Energy Minerals and Natural Resources

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

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

1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505												
Release Notification and Corrective Action												
									Final Report			
Name of Company: Regency Field Services LLC.     Contact: Crystal Callaway												
Address: 301 Commerce Street, Suite 700, Fort Watth TX 76102 Telephone No.: (817) 302-9407												
Facility Name: L5 to MF   Facility Type: Natural Gas Gathering												
Surface Owner: Millard Deck Mineral Owner:									API No	.: 30025-3	9231-(	)0-00
LOCATION OF RELEASE												
Unit Letter O						South Line Feet from the East/West Lin			Vest Line	County Lea		
Latitude_32.472081_Longitude103.151236												
				NAT	URE	OF REL	EASE					
Type of Relea	ase: Crude	Oil and Natur	al Gas				Release: Greater as, Greater than 5		Volume R	lecovered: 1	None	
Source of Rel	ease: 10" 1	Natural Gas P	ipeline			Date and H Unknown	lour of Occurrenc	e:	Date and 9:07 am	Hour of Dis	covery:	01/07/2009
Was Immedia	ate Notice C		Yes 🛛	No 🗌 Not Re	quired	If YES, To	Whom?					
By Whom? 7	Tony Savoie	e		•		Date and H	lour					
Was a Watero	course Reac		Yes 🛛	No		If YES, Vo	lume Impacting t	he Wate	ercourse.			
If a Watercou	rse was Im	pacted, Descr	be Fully.*			I						
Describe Cau										3		
clamps had be	een installe	d on the pipel	ine. There	rior to the discove were no fluids st asured approxima	anding c	or gas leaking	upon discovery.	There y	were two (2	) area noted	) tempo during	orary leak the
Describe Area	a Affected a	and Cleanup A	Action Tak	en.*								
Reportedly, in 2009, approximately 2,904 cubic yards (yd <sup>3</sup> ) of impacted soil was excavate from the release site by Basin Environmental and transported to an approved Landfarm. Further excavation was determined to be unsafe and impracticable given the risks associated with the depth of the excavation and the proximity of the floor of the excavation to groundwater. Two (2) confirmation samples exceeded the NMOCD Guidelines and as a result one (1) monitor well was installed in order to confirm there was not an impact to groundwater. Five (5) sampling events confirmed that there was not a chloride impact and laboratory results indicated that BTEX concentrations were less than the laboratory MDL for each of the submitted groundwater samples, with the exception of benzene at 0.0258 mg/L for the January 9, 2014 sampling event.									avation and ne (1) a chloride mples, with			
regulations al public health should their o	l operators or the envir perations h ment. In a	are required to conment. The ave failed to a ddition, NMC	o report an acceptanc dequately CD accep	is true and compl d/or file certain re- e of a C-141 repo investigate and re- tance of a C-141 r	elease no rt by the emediate	tifications an NMOCD m contaminati	nd perform correc arked as "Final Re on that pose a thre e the operator of r	tive acti eport" d eat to gr responsi	ons for rele oes not reli ound water bility for co	eases which eve the oper , surface wa ompliance w	may en ator of ter, hun ith any	danger liability nan health
Signature:	Signature: OIL CONSERVATION DIVISION											
Printed Name: (VUSTA) CALLAUSIG Approved by Environmental Specialist:												
Title: 5(	~	. (		diation Spe		Approval Dat	e:	I	Expiration I	Date:		
E-mail Addre	ss: Crys	JAL.CALL	1-	Regencig NS.	Lorn	Conditions of	Approval:			Attached		
Date:	5114		Phone:	717-301-6	<u>141</u>							

\* Attach Additional Sheets If Necessary