

### **Report Description**

This report shows an AE Order Number in Barcode format for purposes of scanning. The Barcode format is Code 39.



App Number: pTO1434944632

1RP - 2695
SOUTHERN UNION EXPLORATION CO

### Leking, Geoffrey R, EMNRD

From: Joel Lowry <jwlowry@basinenv.com>

Sent: Monday, November 19, 2012 8:42 AM

To: Leking, Geoffrey R, EMNRD HOBBS OCD

Cc: Rose Slade

Subject: Trunk "O" Line (Meyers) - Permission to Backfill NOV 1 9 2012

Attachments: Trunk\_O\_Meyers(2695)\_Attachments.pdf

RECEIVED

Mr. Leking,

This email has been prepared in regards to Southern Union Gas's Trunk "O" Line (Meyers) (RP-2695) Historical release site. The release site is located on property owned by the Mr. Kelly Meyers; the depth to groundwater is approximately 130' bgs.

The release occurred on March 19, 2011 and was reported to the NMOCD March 23, 2011. The initial C-141 indicated approximately 10 bbls of fluid and 900 Mcf of natural gas was released, impacting an area measuring approximately 300' by 150'. A majority of the release was airborne, primarily impacting the surface.

On November 2, 2012, Basin Environmental responded to the release site and excavated the impacted medium. The top six inches (6") of soil was scraped up and stockpiled on-site pending final disposition. Chloride field tests were conducted on soil samples collected at two feet (2') below ground surface (bgs) from twenty-two (22) sample points evenly spaced within the excavated area. Chloride field test results indicated chloride concentrations were less than 120 mg/Kg for each of the field samples.

On November 5 and 6, 2012, Basin collected fifteen (15) confirmation soil samples from the excavated area and submitted them to the laboratory analysis of chloride concentrations. Chloride concentrations ranged from 9.24 mg/Kg for soil sample SP#17 @ 2' to 66.2 mg/Kg for soil sample SP#6 @ 2'. In addition nine (9) soil samples were also analyzed for concentrations of total petroleum hydrocarbons (TPH). TPH concentrations were less than the appropriate laboratory method detection limit for each of the submitted soil samples. One soil sample is currently being analyzed for benzene, toluene, ethylbenzene and xylene (BTEX) concentrations; the results of which will be provided to you upon receipt. Additional samples can be analyzed for BTEX concentrations on request.

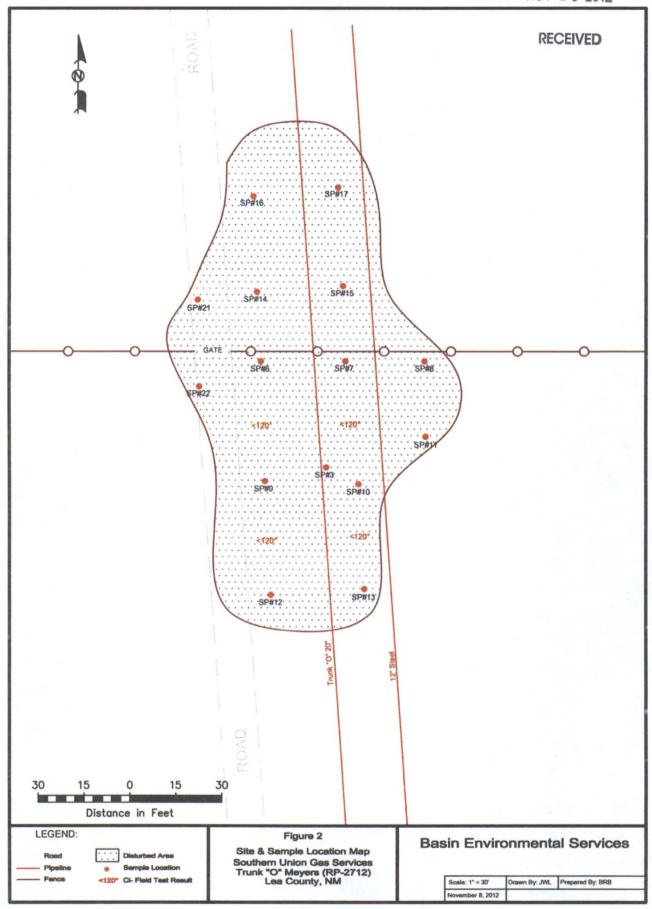
On November 7 and 8, 2012, approximately one hundred forty-four cubic yards (144 cu. yds) of impacted material was hauled to Sundance Services, Inc (NMOCD Permit # NM-01003) for disposal.

With your permission, Southern Union would like to begin backfilling the excavation with non-impacted material purchased from the landowner. On completion, Southern Union will submit a "Remediation Summary & Site Closure Request" to the NMOCD and the landowner, documenting remediation activities and results from confirmation soil samples.

For your convenience, a site/sample location map, soil chemistry table and laboratory analytical results are attached.

Respectfully,

NOV 1 9 2012



CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

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SOUTHERN UNION GAS SERVICES
TRUNK "O" LINE (Meyers)
HISTORICAL RELEASE SITE
LEA COUNTY, NEW MEXICO
NMOCD REF# 1RP-2695

					METHOD: EP	METHOD: EPA SW 846-8021B, 5030	21B, 5030		MET	METHOD: 8015M	SM	TOTAL	METHOD: E300.0
SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE	SOIL	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>38</sub> (mg/Kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/Kg)	CHLORIDE (mg/Kg)
SP#3 @ Surface	Surface	11/5/2012	Excavated						<15.6	<15.6	<15.6	<15.6	
SP#6 @ 2'	2,	11/5/2012	In-Situ					,					66.2
SP#7 @ 2'	2'	11/5/2012	In-Situ										9.89
SP#8 @ 2'	2'	11/5/2012	In-Situ	1			,	-	<15.8	<15.8	<15.8	<15.8	21.5
SP#9 @ 2'	2'	11/5/2012	In-Situ		,			1					16.7
SP#10 @ 2'	2'	11/5/2012	In-Situ					1					14.1
SP#11 @ 2'	2'	11/5/2012	In-Situ	-		1	-	1					28.9
SP#12 @ 2'	2'	11/5/2012	In-Situ	,				-	<15.6	<15.6	<15.6	<15.6	18.3
SP#13 @ 2'	2'	11/5/2012	In-Situ						<15.9	<15.9	<15.9	<15.9	23.3
SP#14 @ 2'	2'	11/6/2012	In-Situ	1	1			1	<15.8	<15.8	<15.8	<15.8	30.3
SP#15 @ 2'	2'	11/6/2012	In-Situ	1			1	1	<15.9	<15.9	<15.9	<15.9	58.8
SP#15 @ 4'	4,	11/6/2012	In-Situ	•			•	1	-	-			11.7
SP#16 @ 2'	2'	11/6/2012	In-Situ		-			-	<15.6	<15.6	<15.6	<15.6	14.7
SP#17 @ 2'	2'	11/6/2012	In-Situ			r			<16.2	<16.2	<16.2	<16.2	9.24
SP#21 @ 2'	2'	11/6/2012	In-Situ	1		,		-	<15.8	<15.8	<15.8	<15.8	9.47
SP#22 @ 2'	2'	11/6/2012	In-Situ	-		-		1					11.4
NMOCD Standard				10				20				5,000	1,000

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

<sup>\*</sup> Denotes results by EPA Method 325.3

### **Analytical Report 452203**

### for Southern Union Gas Services- Monahans

**Project Manager: Joel Lowry** 

Trunk "O" Myers

HOBBS OCD

(RP-2695)

NOV 1 9 2012

16-NOV-12

Collected By: Client

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

Xenco-Houston (EPA Lab code: TX00122):

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

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

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

Xenco-Lakeland: Florida (E84098)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

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





16-NOV-12

Project Manager: Joel Lowry

**Southern Union Gas Services- Monahans** 

801 South Loop 464 Monahans, TX 79756

Reference: XENCO Report No: 452203

Trunk "O" Myers

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 452203. 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. 452203 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 452203**



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

Trunk "O" Myers

Sample Id	Matrix	<b>Date Collected</b>	Sample Depth	Lab Sample Id
SP#3 @ Surface	S	11-05-12 10:00	In	452203-001
SP#6 @ 2'	S	11-05-12 11:30		452203-002
SP#7 @ 2'	S	11-05-12 12:00		452203-003
SP#8 @ 2'	S	11-05-12 12:30		452203-004
SP#9 @ 2'	S	11-05-12 13:00		452203-005
SP#10 @ 6'	S	11-05-12 13:30		452203-006
SP#11 @ 2'	S	11-05-12 14:00		452203-007
SP#12 @ 2'	S	11-05-12 14:30		452203-008
SP#13 @ 2'	S	11-05-12 15:00		452203-009
SP#14 @ 2'	S	11-06-12 09:00		452203-010
SP#15 @ 2'	S	11-06-12 09:30		452203-011
SP#15 @ 4'	S	11-06-12 09:45		452203-012
SP#16 @ 2'	S	11-06-12 10:00		452203-013
SP#17@ 2'	S	11-06-12 10:30		452203-014
SP#21 @ 2'	S	11-06-12 12:30		452203-015
SP#22 @ 2'	S	11-06-12 13:00		452203-016





Client Name: Southern Union Gas Services- Monahans

Project Name: Trunk "O" Myers



Project ID: (RP-2695) Work Order Number: 452203 Report Date: 16-NOV-12 Date Received: 11/09/2012

Sample receipt non conformances and comments:

hold for BTEX

Sample receipt non conformances and comments per sample:

None



Project Location: Lea County, NM Contact: Joel Lowry Project Id: (RP-2695)

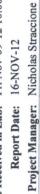
# Certificate of Analysis Summary 452203

Southern Union Gas Services- Monahans, Monahans, TX

Project Name: Trunk "O" Myers

Date Received in Lab: Fri Nov-09-12 10:00 pm

Report Date: 16-NOV-12



	Lab Id:	452203-001	452203-002	452203-003	452203-004	452203-005	452203-006
Annhisis Ronnostod	Field Id:	SP#3 @ Surface	SP#6 @ 2'	SP#7 @ 2'	SP#8 @ 2'	SP#9 @ 2'	SP#10 @ 6'
naicanhair ciclinair	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Nov-05-12 10:00	Nov-05-12 11:30	Nov-05-12 12:00	Nov-05-12 12:30	Nov-05-12 13:00	Nov-05-12 13:30
Inorganic Anions by EPA 300/300.1	Extracted:		Nov-12-12 13:21	Nov-12-12 13:53	Nov-12-12 14:09	Nov-12-12 14:25	Nov-12-12 14:41
SUB: TX104704215	Analyzed:		Nov-12-12 13:21	Nov-12-12 13:53	Nov-12-12 14:09	Nov-12-12 14:25	Nov-12-12 14:41
	Units/RL:		mg/kg RL				
Chloride			66.2 1.15	9.89 1.07	21.5 1.04	16.7 0.974	14.1 1.18
Percent Moisture	Extracted:						
	Analyzed:	Nov-12-12 15:40	Nov-16-12 13:00	Nov-16-12 13:00	Nov-12-12 15:40	Nov-16-12 13:00	Nov-16-12 13:00
	Units/RL:	% RL					
Percent Moisture		3.67 1.00	6.01 1.00	6.71 1.00	5.39 1.00	4.05 1.00	5.92 1.00
TPH By SW8015 Mod	Extracted:	Nov-15-12 08:30			Nov-15-12 08:30		
	Analyzed:	Nov-15-12 12:13			Nov-15-12 12:47		
	Units/RL:	mg/kg RL			mg/kg RL		
C6-C12 Gasoline Range Hydrocarbons		ND 15.6			ND 15.8		
C12-C28 Diesel Range Hydrocarbons		ND 15.6			ND 15.8		
C28-C35 Oil Range Hydrocarbons		ND 15.6			ND 15.8		
Total TPH		ND 15.6			ND 15.8		

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Nicholas Straccione Project Manager

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This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results experses 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.



Project Id: (RP-2695)
Contact: Joel Lowry
Project Location: Lea County, NM

# Certificate of Analysis Summary 452203

Southern Union Gas Services- Monahans, Monahans, TX

Project Name: Trunk "O" Myers



Date Received in Lab: Fri Nov-09-12 10:00 pm Report Date: 16-NOV-12

olect Location: Lea County, INIM					Project Manager: Nicholas Straccione	Vicholas Straccione		
	Lab Id:	452203-007	452203-008	452203-009	452203-010	452203-011	452203-012	
Augheic Donnoctod	Field Id:	SP#11 @ 2'	SP#12 @ 2'	SP#13 @ 2'	SP#14 @ 2'	SP#15 @ 2'	SP#15 @ 4'	
naisanhay yednesien	Depth:							
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
	Sampled:	Nov-05-12 14:00	Nov-05-12 14:30	Nov-05-12 15:00	Nov-06-12 09:00	Nov-06-12 09:30	Nov-06-12 09:45	
Inorganic Anions by EPA 300/300.1	Extracted:	Nov-12-12 14:57	Nov-12-12 15:46	Nov-12-12 16:02	Nov-12-12 16:18	Nov-12-12 16:34	Nov-12-12 16:50	
SUB: TX104704215	Analyzed:	Nov-12-12 14:57	Nov-12-12 15:46	Nov-12-12 16:02	Nov-12-12 16:18	Nov-12-12 16:34	Nov-12-12 16:50	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Chloride		28.9 0.979	18.3 1.09	23.3 1.01	30.3 1.05	58.8 1.16	11.7 1.13	
Percent Moisture	Extracted:							
	Analyzed:	Nov-16-12 13:00	Nov-12-12 15:40	Nov-12-12 15:40	Nov-12-12 15:40	Nov-12-12 15:40	Nov-16-12 13:00	
	Units/RL:	% RL	% RL	% RL	% RL	% RL	% RL	
Percent Moisture		5.46 1.00	4.13 1.00	5.52 1.00	5.21 1.00	5.56 1.00	3.54 1.00	
TPH By SW8015 Mod	Extracted:		Nov-15-12 08:30	Nov-15-12 08:30	Nov-15-12 08:30	Nov-15-12 08:30		
	Analyzed:		Nov-15-12 13:16	Nov-15-12 13:51	Nov-15-12 14:20	Nov-15-12 14:53		
	Units/RL:		mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
C6-C12 Gasoline Range Hydrocarbons			ND 15.6	ND 15.9	ND 15.8	ND 15.9		
C12-C28 Diesel Range Hydrocarbons			ND 15.6	ND 15.9	ND 15.8	ND 15.9		
C28-C35 Oil Range Hydrocarbons			ND 15.6	ND 15.9	ND 15.8	ND 15.9		
Total TPH			ND 15.6	ND 15.9	ND 15.8	ND 15.9		
								y

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Nicholas Straccione Project Manager

Page □ of 18

Draft 1.000



Project Id: (RP-2695)

Contact: Joel Lowry
Project Location: Lea County, NM

# Certificate of Analysis Summary 452203

Southern Union Gas Services- Monahans, Monahans, TX

Project Name: Trunk "O" Myers



ft

Date Received in Lab: Fri Nov-09-12 10:00 pm

Report Date: 16-NOV-12
Project Manager: Nicholas Straccione

	Lab Id:	452203-013	452203-014	452203-015	452203-016	
Aunthois Donnocted	Field Id:	SP#16 @ 2'	SP#17@ 2'	SP#21 @ 2'	SP#22 @ 2'	
naisan kadanaya	Depth:					
	Matrix:	SOIL	SOIL	SOIL	SOIL	
	Sampled:	Nov-06-12 10:00	Nov-06-12 10:30	Nov-06-12 12:30	Nov-06-12 13:00	
Inorganic Anions by EPA 300/300.1	Extracted:	Nov-12-12 17:22	Nov-12-12 17:38	Nov-12-12 17:54	Nov-12-12 18:11	
SUB: TX104704215	Analyzed:	Nov-12-12 17:22	Nov-12-12 17:38	Nov-12-12 17:54	Nov-12-12 18:11	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Chloride		14.7 1.04	9.24 1.16	9.47 1.03	11.4 1.04	
Percent Moisture	Extracted:					
	Analyzed:	Nov-12-12 15:40	Nov-12-12 15:40	Nov-12-12 15:40	Nov-16-12 13:00	
	Units/RL:	% RL	% RL	% RL	% RL	
Percent Moisture		4.33 1.00	7.95 1.00	5.47 1.00	3.11 1.00	
TPH By SW8015 Mod	Extracted:	Nov-15-12 08:30	Nov-15-12 08:30	Nov-15-12 08:30		
	Analyzed:	Nov-15-12 15:24	Nov-15-12 15:52	Nov-15-12 16:25		
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL		
C6-C12 Gasoline Range Hydrocarbons		ND 15.6	ND 16.2	ND 15.8		
C12-C28 Diesel Range Hydrocarbons		ND 15.6	ND 16.2	ND 15.8		
C28-C35 Oil Range Hydrocarbons		ND 15.6	ND 16.2	ND 15.8		
Total TPH		ND 15.6	ND 16.2	ND 15.8		

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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

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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2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
6017 Financial Drive, Norcross, GA 30071	(770) 449-8800	(770) 449-5477
3725 E. Atlanta Ave, Phoenix, AZ 85040	(602) 437-0330	



### Form 2 - Surrogate Recoveries

Project Name: Trunk "O" Myers

Work Orders: 452203,

Project ID: (RP-2695)

Lab Batch #: 901022

Sample: 452203-001 / SMP

Matrix: Soil Batch: 1

Units: mg/kg Date Analyzed: 11/15/12 12:13	SU	RROGATE R	ECOVERY	STUDY	
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes	[1.5]	[2]	[D]	/610	
1-Chlorooctane	88.2	100	88	70-135	
o-Terphenyl	43.3	50.0	87	70-135	

Lab Batch #: 901022

Sample: 452203-004 / SMP

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 11/15/12 12:47	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	85.0	99.9	85	70-135	
o-Terphenyl	41.7	50.0	83	70-135	

Lab Batch #: 901022

Sample: 452203-008 / SMP

Batch:

Matrix: Soil

Units: mg/kg	SU	RROGATE RI	ECOVERY	STUDY	
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	87.5	100	88	70-135	-
o-Terphenyl	43.7	50.0	87	70-135	

Lab Batch #: 901022

Sample: 452203-009 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 11/15/12 13:51	SU	RROGATE R	ECOVERY	STUDY	4 1 %
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes 1-Chlorooctane	84.3	100	84	70-135	
o-Terphenyl	41.6	50.0	83	70-135	

Lab Batch #: 901022

Sample: 452203-010 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 11/15/12 14:20	SU	RROGATE R	ECOVERY	STUDY	
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	89.7	100	90	70-135	
o-Terphenyl	44.2	50.1	88	70-135	

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

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

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

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



### Form 2 - Surrogate Recoveries

Project Name: Trunk "O" Myers

Work Orders: 452203,

Project ID: (RP-2695)

Lab Batch #: 901022

Sample: 452203-011 / SMP

Matrix: Soil Batch:

Units: mg/kg Date Analyzed: 11/15/12 14:53	SU	RROGATE R	ECOVERY	STUDY	
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	83.4	99.9	83	70-135	
o-Terphenyl	41.3	50.0	83	70-135	

Lab Batch #: 901022

Sample: 452203-013 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 11/15/12 15:24	SUI	RROGATE R	ECOVERY	STUDY	
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	86.1	99.8	86	70-135	
o-Terphenyl	42.1	49.9	84	70-135	

Lab Batch #: 901022

Sample: 452203-014 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 11/15/12 15:5	52 <b>SU</b>	RROGATE R	ECOVERY	STUDY	
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	89.5	99.7	90	70-135	
o-Terphenyl	44.9	49.9	90	70-135	

Lab Batch #: 901022

Sample: 452203-015 / SMP

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 11/15/12 16:25	SU	RROGATE RI	ECOVERY	STUDY	
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes		-	[D]		
1-Chlorooctane	78.0	99.8	78	70-135	
o-Terphenyl	38.5	49.9	77	70-135	

Lab Batch #: 901022

Sample: 630020-1-BLK / BLK

Batch: 1

Matrix: Solid

Units: mg/kg Date Analyzed: 11/15/12 11:44	SU	RROGATE RI	ECOVERY	STUDY	
TPH By SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.0	99.8	91	70-135	
o-Terphenyl	44.8	49.9	90	70-135	

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

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

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

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



### Form 2 - Surrogate Recoveries

Project Name: Trunk "O" Myers

Work Orders: 452203,

Project ID: (RP-2695)

Lab Batch #: 901022

Sample: 630020-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 11/15/12 10:42	SU	RROGATE RI	ECOVERY	STUDY	
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	89.9	99.9	90	70-135	
o-Terphenyl	54.5	50.0	109	70-135	

Lab Batch #: 901022

**Sample:** 630020-1-BSD / BSD

Matrix: Solid Batch:

Units: mg/kg Date Analyzed: 11/15/12 11:10	SU	RROGATE R	ECOVERY	STUDY	
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery	Control Limits %R	Flags
Analytes	(-1	(-)	[D]		
1-Chlorooctane	93.0	99.8	93	70-135	
o-Terphenyl	56.0	49.9	112	70-135	

Lab Batch #: 901022

Sample: 452203-001 S / MS

Batch: Matrix: Soil

<b>Units:</b> mg/kg <b>Date Analyzed:</b> 11/15/12 17:23	SU	RROGATE R	ECOVERY	STUDY	
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	92.3	99.7	93	70-135	1
o-Terphenyl	54.3	49.9	109	70-135	-

Lab Batch #: 901022

Sample: 452203-001 SD / MSD

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 11/15/12 17:53	SU	RROGATE RI	ECOVERY S	STUDY	1,14
TPH By SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.4	99.9	91	70-135	
o-Terphenyl	54.2	50.0	108	70-135	

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

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

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

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



### BS / BSD Recoveries



Project Name: Trunk "O" Myers

Work Order #: 452203

Analyst: TTE

Lab Batch ID: 900714

Sample: 629851-1-BKS

Date Prepared: 11/12/2012

Batch #: 1

Project ID: (RP-2695)
Date Analyzed: 11/12/2012

Date Analyzed: 11/12/ Matrix: Solid BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY Control Limits RPD % Blk. Spk Dup. %R [G] Blank Spike Duplicate Result [F] Spike Added  $\Xi$ Blank Spike %R [D] Blank Spike Result [C] Spike Added [B] Blank Sample Result [A] Inorganic Anions by EPA 300/300.1 Units: mg/kg Analytes

Flag

Control Limits %RPD

20

80-120

101

101

100

66

6.86

100

<1.00

Analyst: KEB
Lab Batch ID: 901022

Chloride

Sample: 630020-1-BKS

Date Prepared: 11/15/2012

Batch #: 1

Date Analyzed: 11/15/2012 Matrix: Solid

Units: mg/kg		BLAN	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE	PIKE / B	LANKS	PIKE DUPL	ICATE 1	RECOVE	RECOVERY STUDY	λ	
TPH By SW8015 Mod	Blank Sample Result	Spike Added	Blank Spike Result	Blank Spike	Spike Added	Blank Spike Dunlicate	Blk. Spk Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	E	[B]	[2]	[0]	<b>a</b>	Result [F]	<u>[5]</u>	:			
C6-C12 Gasoline Range Hydrocarbons	<15.0	666	935	94	866	946	95	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15.0	666	806	91	866	940	94	3	70-135	35	

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



### Form 3 - MS Recoveries

Project Name: Trunk "O" Myers



Work Order #: 452203

Lab Batch #: 900714

**Date Prepared:** 11/12/2012

Project ID: (RP-2695)

**Date Analyzed:** 11/12/2012

Analyst: TTE

QC- Sample ID: 452203-002 S

Batch #:

Matrix: Soil

Reporting Units: mg/kg	MATE	CIX / MA	TRIX SPIKE	RECO	VERY STU	DY
Inorganic Anions by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes	[A]	[B]				
Chloride	66.2	115	172	92	80-120	

Lab Batch #: 900714

**Date Analyzed:** 11/12/2012

**Date Prepared:** 11/12/2012

Analyst: TTE

QC- Sample ID: 452203-012 S

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg	MATI	RIX / MA	TRIX SPIKE	RECO	VERY STU	DY
Inorganic Anions by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes	[A]	[B]				
Chloride	11.7	113	129	104	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



Work Order #: 452203 Lab Batch ID: 901022

## Form 3 - MS / MSD Recoveries

Project Name: Trunk "O" Myers

QC-Sample ID: 452203-001 S Date Prepared: 11/15/2012

Matrix: Soil Batch #:

Project ID: (RP-2695)

KEB Analyst:

Flag Control Limits %RPD 35 Control Limits 70-135 MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY RPD % 3 Spiked Dup. %R [G] 94 Duplicate Spiked Sample Result [F] 926 Spike Added 1040  $\Xi$ Spiked Sample %R [D] 92 Spiked Sample Result 950 [C]Spike Added 1030 [B] Parent Sample Result <15.5 [A] TPH By SW8015 Mod C6-C12 Gasoline Range Hydrocarbons Analytes Date Analyzed: 11/15/2012 Reporting Units: mg/kg

35

70-135

92

196

1040

93

954

1030

<15.5

C12-C28 Diesel Range Hydrocarbons

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

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

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



### **Sample Duplicate Recovery**



Project Name: Trunk "O" Myers

Work Order #: 452203

Lab Batch #: 900713

\_\_\_\_\_

Project ID: □□€2695□

**Date Analyzed:** 11/12/2012 12/40

**Date Prepared:** 11/12/2012

Analyst: □ □□

QC- Sample ID: 45225 □ 001 □

Batch #: 1

Matrix: Soil

Reporting Units:

SAMPLE / SAMPLE DUPLICATE RECOVERY

Reporting Units.	SAIVII LE /	SAIVII LE	DUILIC	AIL REC	OVERI
Percent Moisture	Parent Sample Result	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte	[A]	[B]		/eki b	
	6⊞3	6⊞2	0	20	

Lab Batch #: 901092

Date Analyzed: 11/16/2012 13:00

**Date Prepared:** 11/16/2012

Analyst: 🗆 🗆 🗆

QC- Sample ID: 452203-002

Batch #: 1

Matrix: Soil

Reporting Units:

SAMPLE / SAMPLE DUPLICATE RECOVERY

Percent Moisture  Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
OCILII oi CIIII	6101	6105	1	20	

### Xenco Laboratories

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East Odessa, Texas 79765

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## Xenco Laboratories

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East Odessa, Texas 79765

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### **XENCO Laboratories**



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

Date/ Time Received: 11000010101000000 PO

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

/ork Order #: 4000		Temperature Mea	asuring device used :
	Sample I	Receipt Checklist	Comments
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Must be completed fo	or after-hours delivery of sam	ples prior to placing in the	ne refrigerator
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Checklist	completed by:	D	ate 🗆
Checklist	reviewed by:		ate□