

**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
10014 SCR 1213
Midland, TX 79706**



Analytical Report

Prepared for:

Jonathan Repman
Nova Safety & Environment
2057 Commerce
Midland, TX 79703

Project: SUG Trunk "O" 30 Inch
Project Number: [none]
Location: Lea County, New Mexico
Lab Order Number: 3C04001



NELAP/TCEQ # T104704156-12-1

Report Date: 03/07/13

Nova Safety & Environment
2057 Commerce
Midland TX, 79703

Project: SUG Trunk "O" 30 Inch
Project Number: [none]
Project Manager: Jonathan Repman

Fax: (432) 520-7701

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
RPE BH-1 @ 12'	3C04001-01	Soil	03/01/13 13:55	03-04-2013 11:12
RPE NSW-1 @ 11'	3C04001-02	Soil	03/01/13 14:00	03-04-2013 11:12

Nova Safety & Environment
2057 Commerce
Midland TX, 79703

Project: SUG Trunk "O" 30 Inch
Project Number: [none]
Project Manager: Jonathan Repman

Fax: (432) 520-7701

RPE BH-1 @ 12'

3C04001-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab

Organics by GC

Benzene	ND	0.00100	mg/kg dry	1	EC30702	03/06/13	03/06/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EC30702	03/06/13	03/06/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EC30702	03/06/13	03/06/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EC30702	03/06/13	03/06/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EC30702	03/06/13	03/06/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		117 %	75-125		EC30702	03/06/13	03/06/13	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		74.4 %	75-125		EC30702	03/06/13	03/06/13	EPA 8021B	S-GC

General Chemistry Parameters by EPA / Standard Methods

Chloride	33.2	1.22	mg/kg dry	1	EC30506	03/05/13	03/05/13	EPA 300.0	
% Moisture	18.0	0.1	%	1	EC30501	03/04/13	03/05/13	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	30.5	mg/kg dry	1	EC30508	03/05/13	03/05/13	8015M	
>C12-C28	ND	30.5	mg/kg dry	1	EC30508	03/05/13	03/05/13	8015M	
>C28-C35	ND	30.5	mg/kg dry	1	EC30508	03/05/13	03/05/13	8015M	
Surrogate: 1-Chlorooctane		114 %	70-130		EC30508	03/05/13	03/05/13	8015M	
Surrogate: o-Terphenyl		140 %	70-130		EC30508	03/05/13	03/05/13	8015M	S-GC
Total Hydrocarbon nC6-nC35	ND	30.5	mg/kg dry	1	[CALC]	03/05/13	03/05/13	8015M	

Permian Basin Environmental Lab

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

10014 SCR 1213 Midland, TX 79706 432-686-7235

Nova Safety & Environment
2057 Commerce
Midland TX, 79703

Project: SUG Trunk "O" 30 Inch
Project Number: [none]
Project Manager: Jonathan Repman

Fax: (432) 520-7701

RPE NSW-1 @ 11'
3C04001-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab									
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EC30702	03/06/13	03/06/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EC30702	03/06/13	03/06/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EC30702	03/06/13	03/06/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EC30702	03/06/13	03/06/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EC30702	03/06/13	03/06/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		118 %	75-125		EC30702	03/06/13	03/06/13	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		74.2 %	75-125		EC30702	03/06/13	03/06/13	EPA 8021B	S-GC
General Chemistry Parameters by EPA / Standard Methods									
Chloride	5.18	1.01	mg/kg dry	1	EC30506	03/05/13	03/05/13	EPA 300.0	
% Moisture	1.0	0.1	%	1	EC30501	03/04/13	03/05/13	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	EC30508	03/05/13	03/05/13	8015M	
>C12-C28	ND	25.3	mg/kg dry	1	EC30508	03/05/13	03/05/13	8015M	
>C28-C35	ND	25.3	mg/kg dry	1	EC30508	03/05/13	03/05/13	8015M	
Surrogate: 1-Chlorooctane		112 %	70-130		EC30508	03/05/13	03/05/13	8015M	
Surrogate: o-Terphenyl		137 %	70-130		EC30508	03/05/13	03/05/13	8015M	S-GC
Total Hydrocarbon nC6-nC35	ND	25.3	mg/kg dry	1	[CALC]	03/05/13	03/05/13	8015M	

Permian Basin Environmental Lab

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

10014 SCR 1213 Midland, TX 79706 432-686-7235

Page 4 of 9

Nova Safety & Environment
2057 Commerce
Midland TX, 79703

Project: SUG Trunk "O" 30 Inch
Project Number: [none]
Project Manager: Jonathan Repman

Fax: (432) 520-7701

Organics by GC - Quality Control
Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC30702 - General Preparation (GC)										
Blank (EC30702-BLK1)				Prepared & Analyzed: 03/06/13						
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	70.2		ug/kg	60.0		117	75-125			
Surrogate: 4-Bromofluorobenzene	41.4		"	60.0		69.1	75-125			S-GC
LCS (EC30702-BS1)				Prepared & Analyzed: 03/06/13						
Benzene	0.0814	0.00100	mg/kg wet	0.100		81.4	80-120			
Toluene	0.119	0.00200	"	0.100		119	80-120			
Ethylbenzene	0.116	0.00100	"	0.100		116	80-120			
Xylene (p/m)	0.235	0.00200	"	0.200		118	80-120			
Xylene (o)	0.118	0.00100	"	0.100		118	80-120			
Surrogate: 1,4-Difluorobenzene	66.4		ug/kg	60.0		111	75-125			
Surrogate: 4-Bromofluorobenzene	60.2		"	60.0		100	75-125			
LCS Dup (EC30702-BSD1)				Prepared & Analyzed: 03/06/13						
Benzene	0.0812	0.00100	mg/kg wet	0.100		81.2	80-120	0.246	20	
Toluene	0.118	0.00200	"	0.100		118	80-120	0.936	20	
Ethylbenzene	0.117	0.00100	"	0.100		117	80-120	1.03	20	
Xylene (p/m)	0.227	0.00200	"	0.200		114	80-120	3.46	20	
Xylene (o)	0.117	0.00100	"	0.100		117	80-120	0.255	20	
Surrogate: 1,4-Difluorobenzene	65.6		ug/kg	60.0		109	75-125			
Surrogate: 4-Bromofluorobenzene	59.9		"	60.0		99.8	75-125			
Matrix Spike (EC30702-MS1)				Source: 3C05001-04	Prepared & Analyzed: 03/06/13					
Benzene	0.0629	0.00100	mg/kg wet	0.100	ND	62.9	80-120			QM-05
Toluene	0.0837	0.00200	"	0.100	ND	83.7	80-120			
Ethylbenzene	0.0842	0.00100	"	0.100	ND	84.2	80-120			
Xylene (p/m)	0.165	0.00200	"	0.200	ND	82.4	80-120			
Xylene (o)	0.0831	0.00100	"	0.100	ND	83.1	80-120			
Surrogate: 1,4-Difluorobenzene	69.4		ug/kg	60.0		116	75-125			
Surrogate: 4-Bromofluorobenzene	57.8		"	60.0		96.4	75-125			

Permian Basin Environmental Lab

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

10014 SCR 1213 Midland, TX 79706 432-686-7235

Page 5 of 9

Nova Safety & Environment
2057 Commerce
Midland TX, 79703

Project: SUG Trunk "O" 30 Inch
Project Number: [none]
Project Manager: Jonathan Repman

Fax: (432) 520-7701

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch EC30501 - *** DEFAULT PREP ***									
Blank (EC30501-BLK1)					Prepared: 03/04/13 Analyzed: 03/05/13				
% Moisture	ND	0.1	%						
Duplicate (EC30501-DUP1)					Source: 3C01005-01 Prepared: 03/04/13 Analyzed: 03/05/13				
% Moisture	2.0	0.1	%		3.0		40.0	20	R3
Batch EC30506 - *** DEFAULT PREP ***									
Blank (EC30506-BLK1)					Prepared & Analyzed: 03/05/13				
Chloride	ND	1.00	mg/kg wet						
LCS (EC30506-BS1)					Prepared & Analyzed: 03/05/13				
Chloride	9.42		mg/kg Wet	10.0		94.2	80-120		
LCS Dup (EC30506-BSD1)					Prepared & Analyzed: 03/05/13				
Chloride	9.31		mg/kg Wet	10.0		93.1	80-120	1.21	20
Duplicate (EC30506-DUP1)					Source: 3C04001-02 Prepared & Analyzed: 03/05/13				
Chloride	5.21	1.01	mg/kg dry		5.18		0.583	20	
Matrix Spike (EC30506-MS1)					Source: 3C04001-02 Prepared & Analyzed: 03/05/13				
Chloride	140	1.01	mg/kg dry	126	5.18	107	80-120		
Matrix Spike (EC30506-MS2)					Source: 3C03004-06 Prepared: 03/05/13 Analyzed: 03/06/13				
Chloride	610	1.05	mg/kg dry	132	499	84.5	80-120		

Permian Basin Environmental Lab

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

10014 SCR 1213 Midland, TX 79706 432-686-7235

Page 6 of 9

Nova Safety & Environment
2057 Commerce
Midland TX, 79703

Project: SUG Trunk "O" 30 Inch
Project Number: [none]
Project Manager: Jonathan Repman

Fax: (432) 520-7701

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC30508 - TX 1005										
Blank (EC30508-BLK1)				Prepared & Analyzed: 03/05/13						
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	124		"	100		124	70-130			
Surrogate: o-Terphenyl	72.6		"	50.0		145	70-130			S-GC
LCS (EC30508-BS1)				Prepared & Analyzed: 03/05/13						
C6-C12	1170	25.0	mg/kg wet	1000		117	75-125			
>C12-C28	1230	25.0	"	1000		123	75-125			
>C28-C35	ND	25.0	"	0.00			75-125			
Surrogate: 1-Chlorooctane	130		"	100		130	70-130			
Surrogate: o-Terphenyl	62.2		"	50.0		124	70-130			
LCS Dup (EC30508-BSD1)				Prepared & Analyzed: 03/05/13						
C6-C12	1090	25.0	mg/kg wet	1000		109	75-125	7.34	20	
>C12-C28	1100	25.0	"	1000		110	75-125	11.3	20	
>C28-C35	ND	25.0	"	0.00			75-125		20	
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	57.3		"	50.0		115	70-130			
Matrix Spike (EC30508-MS1)				Source: 3C01005-01	Prepared & Analyzed: 03/05/13					
C6-C12	1200	25.8	mg/kg dry	1030		117	75-125			QM-05
>C12-C28	1150	25.8	"	1030		112	75-125			QM-05
>C28-C35	ND	25.8	"	0.00			75-125			QM-05
Surrogate: 1-Chlorooctane	127		"	103		123	70-130			
Surrogate: o-Terphenyl	71.9		"	51.5		140	70-130			S-GC
Matrix Spike Dup (EC30508-MSD1)				Source: 3C01005-01	Prepared & Analyzed: 03/05/13					
C6-C12	1140	25.8	mg/kg dry	1030		111	75-125	5.25	20	QM-05
>C12-C28	1060	25.8	"	1030		103	75-125	7.76	20	QM-05
>C28-C35	ND	25.8	"	0.00			75-125		20	QM-05
Surrogate: 1-Chlorooctane	127		"	103		123	70-130			
Surrogate: o-Terphenyl	56.4		"	51.5		109	70-130			

Permian Basin Environmental Lab

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

10014 SCR 1213 Midland, TX 79706 432-686-7235

Page 7 of 9

Nova Safety & Environment
2057 Commerce
Midland TX, 79703

Project: SUG Trunk "O" 30 Inch
Project Number: [none]
Project Manager: Jonathan Repman

Fax: (432) 520-7701

Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

R3 The RPD exceeded the acceptance limit due to sample matrix effects.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

3/7/2013

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

10014 SCR 1213 Midland, TX 79706 432-686-7235

**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
10014 SCR 1213
Midland, TX 79706**



Analytical Report

Prepared for:

Jonathan Repman
Nova Safety & Environment
2057 Commerce
Midland, TX 79703

Project: SUG Trunk "O" 30 Inch
Project Number: [none]
Location: Lea County, New Mexico
Lab Order Number: 3C05001



NELAP/TCEQ # T104704156-12-1

Report Date: 03/08/13

Nova Safety & Environment
2057 Commerce
Midland TX, 79703

Project: SUG Trunk "O" 30 Inch
Project Number: [none]
Project Manager: Jonathan Repman

Fax: (432) 520-7701

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ET BH-1 @ 13'	3C05001-01	Soil	03/04/13 12:00	03-05-2013 11:55
ETA BH-1 @ 6'	3C05001-02	Soil	03/04/13 12:15	03-05-2013 11:55
RPE SSW-1 @ 11'	3C05001-03	Soil	03/04/13 12:30	03-05-2013 11:55
ET ESW 1 @ 12'	3C05001-04	Soil	03/04/13 12:45	03-05-2013 11:55

Nova Safety & Environment
2057 Commerce
Midland TX, 79703

Project: SUG Trunk "O" 30 Inch
Project Number: [none]
Project Manager: Jonathan Repman

Fax: (432) 520-7701

ET BH-1 @ 13'
3C05001-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab									
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EC30702	03/06/13	03/06/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EC30702	03/06/13	03/06/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EC30702	03/06/13	03/06/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EC30702	03/06/13	03/06/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EC30702	03/06/13	03/06/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		117 %	75-125		EC30702	03/06/13	03/06/13	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		69.6 %	75-125		EC30702	03/06/13	03/06/13	EPA 8021B	S-GC
General Chemistry Parameters by EPA / Standard Methods									
Chloride	30.2	1.04	mg/kg dry	1	EC30804	03/08/13	03/08/13	EPA 300.0	
% Moisture	3.4	0.1	%	1	EC30801	03/07/13	03/08/13	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.9	mg/kg dry	1	EC30802	03/07/13	03/07/13	8015M	
>C12-C28	ND	25.9	mg/kg dry	1	EC30802	03/07/13	03/07/13	8015M	
>C28-C35	ND	25.9	mg/kg dry	1	EC30802	03/07/13	03/07/13	8015M	
Surrogate: 1-Chlorooctane		129 %	70-130		EC30802	03/07/13	03/07/13	8015M	
Surrogate: o-Terphenyl		154 %	70-130		EC30802	03/07/13	03/07/13	8015M	S-GC
Total Hydrocarbon nC6-nC35	ND	25.9	mg/kg dry	1	[CALC]	03/07/13	03/07/13	8015M	

Permian Basin Environmental Lab

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

10014 SCR 1213 Midland, TX 79706 432-686-7235

Page 3 of 11

Nova Safety & Environment
2057 Commerce
Midland TX, 79703

Project: SUG Trunk "O" 30 Inch
Project Number: [none]
Project Manager: Jonathan Repman

Fax: (432) 520-7701

ETA BH-1 @ 6'

3C05001-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab									
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EC30702	03/06/13	03/06/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EC30702	03/06/13	03/06/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EC30702	03/06/13	03/06/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EC30702	03/06/13	03/06/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EC30702	03/06/13	03/06/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		116 %	75-125		EC30702	03/06/13	03/06/13	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		73.0 %	75-125		EC30702	03/06/13	03/06/13	EPA 8021B	S-GC
General Chemistry Parameters by EPA / Standard Methods									
Chloride	56.3	1.09	mg/kg dry	1	EC30804	03/08/13	03/08/13	EPA 300.0	
% Moisture	8.0	0.1	%	1	EC30801	03/07/13	03/08/13	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	EC30802	03/07/13	03/07/13	8015M	
>C12-C28	ND	27.2	mg/kg dry	1	EC30802	03/07/13	03/07/13	8015M	
>C28-C35	ND	27.2	mg/kg dry	1	EC30802	03/07/13	03/07/13	8015M	
Surrogate: 1-Chlorooctane		68.7 %	70-130		EC30802	03/07/13	03/07/13	8015M	S-GC
Surrogate: o-Terphenyl		84.8 %	70-130		EC30802	03/07/13	03/07/13	8015M	
Total Hydrocarbon nC6-nC35	ND	27.2	mg/kg dry	1	[CALC]	03/07/13	03/07/13	8015M	

Nova Safety & Environment
2057 Commerce
Midland TX, 79703

Project: SUG Trunk "O" 30 Inch
Project Number: [none]
Project Manager: Jonathan Repman

Fax: (432) 520-7701

RPE SSW-1 @ 11'
3C05001-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab									
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EC30702	03/06/13	03/06/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EC30702	03/06/13	03/06/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EC30702	03/06/13	03/06/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EC30702	03/06/13	03/06/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EC30702	03/06/13	03/06/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		116 %	75-125		EC30702	03/06/13	03/06/13	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		66.1 %	75-125		EC30702	03/06/13	03/06/13	EPA 8021B	S-GC
General Chemistry Parameters by EPA / Standard Methods									
Chloride	15.5	1.01	mg/kg dry	1	EC30804	03/08/13	03/08/13	EPA 300.0	
% Moisture	1.0	0.1	%	1	EC30801	03/07/13	03/08/13	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	EC30802	03/07/13	03/07/13	8015M	
>C12-C28	ND	25.3	mg/kg dry	1	EC30802	03/07/13	03/07/13	8015M	
>C28-C35	ND	25.3	mg/kg dry	1	EC30802	03/07/13	03/07/13	8015M	
Surrogate: 1-Chlorooctane		126 %	70-130		EC30802	03/07/13	03/07/13	8015M	
Surrogate: o-Terphenyl		149 %	70-130		EC30802	03/07/13	03/07/13	8015M	S-GC
Total Hydrocarbon nC6-nC35	ND	25.3	mg/kg dry	1	[CALC]	03/07/13	03/07/13	8015M	

Permian Basin Environmental Lab

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

10014 SCR 1213 Midland, TX 79706 432-686-7235

Page 5 of 11

Nova Safety & Environment
2057 Commerce
Midland TX, 79703

Project: SUG Trunk "O" 30 Inch
Project Number: [none]
Project Manager: Jonathan Repman

Fax: (432) 520-7701

ET ESW 1 @ 12'
3C05001-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab

Organics by GC

Benzene	ND	0.00100	mg/kg dry	1	EC30702	03/06/13	03/06/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EC30702	03/06/13	03/06/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EC30702	03/06/13	03/06/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EC30702	03/06/13	03/06/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EC30702	03/06/13	03/06/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		118 %	75-125		EC30702	03/06/13	03/06/13	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		48.4 %	75-125		EC30702	03/06/13	03/06/13	EPA 8021B	S-GC

General Chemistry Parameters by EPA / Standard Methods

Chloride	26.8	1.01	mg/kg dry	1	EC30804	03/08/13	03/08/13	EPA 300.0	
% Moisture	1.0	0.1	%	1	EC30801	03/07/13	03/08/13	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	EC30802	03/07/13	03/07/13	8015M	
>C12-C28	ND	25.3	mg/kg dry	1	EC30802	03/07/13	03/07/13	8015M	
>C28-C35	ND	25.3	mg/kg dry	1	EC30802	03/07/13	03/07/13	8015M	
Surrogate: 1-Chlorooctane		70.8 %	70-130		EC30802	03/07/13	03/07/13	8015M	
Surrogate: o-Terphenyl		84.1 %	70-130		EC30802	03/07/13	03/07/13	8015M	
Total Hydrocarbon nC6-nC35	ND	25.3	mg/kg dry	1	[CALC]	03/07/13	03/07/13	8015M	

Nova Safety & Environment
2057 Commerce
Midland TX, 79703

Project: SUG Trunk "O" 30 Inch
Project Number: [none]
Project Manager: Jonathan Repman

Fax: (432) 520-7701

Organics by GC - Quality Control
Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC30702 - General Preparation (GC)										
Blank (EC30702-BLK1)										
Prepared & Analyzed: 03/06/13										
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	70.2		ug/kg	60.0		117	75-125			
Surrogate: 4-Bromofluorobenzene	41.4		"	60.0		69.1	75-125			S-GC
LCS (EC30702-BS1)										
Prepared & Analyzed: 03/06/13										
Benzene	0.0814	0.00100	mg/kg wet	0.100		81.4	80-120			
Toluene	0.119	0.00200	"	0.100		119	80-120			
Ethylbenzene	0.116	0.00100	"	0.100		116	80-120			
Xylene (p/m)	0.235	0.00200	"	0.200		118	80-120			
Xylene (o)	0.118	0.00100	"	0.100		118	80-120			
Surrogate: 1,4-Difluorobenzene	66.4		ug/kg	60.0		111	75-125			
Surrogate: 4-Bromofluorobenzene	60.2		"	60.0		100	75-125			
LCS Dup (EC30702-BSD1)										
Prepared & Analyzed: 03/06/13										
Benzene	0.0812	0.00100	mg/kg wet	0.100		81.2	80-120	0.246	20	
Toluene	0.118	0.00200	"	0.100		118	80-120	0.936	20	
Ethylbenzene	0.117	0.00100	"	0.100		117	80-120	1.03	20	
Xylene (p/m)	0.227	0.00200	"	0.200		114	80-120	3.46	20	
Xylene (o)	0.117	0.00100	"	0.100		117	80-120	0.255	20	
Surrogate: 1,4-Difluorobenzene	65.6		ug/kg	60.0		109	75-125			
Surrogate: 4-Bromofluorobenzene	59.9		"	60.0		99.8	75-125			
Matrix Spike (EC30702-MS1)										
Source: 3C05001-04 Prepared & Analyzed: 03/06/13										
Benzene	0.0635	0.00100	mg/kg dry	0.101	ND	62.9	80-120			QM-05
Toluene	0.0846	0.00200	"	0.101	ND	83.7	80-120			
Ethylbenzene	0.0851	0.00100	"	0.101	ND	84.2	80-120			
Xylene (p/m)	0.166	0.00200	"	0.202	ND	82.4	80-120			
Xylene (o)	0.0839	0.00100	"	0.101	ND	83.1	80-120			
Surrogate: 1,4-Difluorobenzene	69.4		ug/kg	60.0		116	75-125			
Surrogate: 4-Bromofluorobenzene	57.8		"	60.0		96.4	75-125			

Permian Basin Environmental Lab

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

10014 SCR 1213 Midland, TX 79706 432-686-7235

Nova Safety & Environment
2057 Commerce
Midland TX, 79703

Project: SUG Trunk "O" 30 Inch
Project Number: [none]
Project Manager: Jonathan Repman

Fax: (432) 520-7701

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC30801 - *** DEFAULT PREP ***										
Blank (EC30801-BLK1)				Prepared: 03/07/13 Analyzed: 03/08/13						
% Moisture	ND	0.1	%							
Duplicate (EC30801-DUP1)				Source: 3C05001-01 Prepared: 03/07/13 Analyzed: 03/08/13						
% Moisture	3.6	0.1	%		3.4			5.71	20	
Batch EC30804 - *** DEFAULT PREP ***										
Blank (EC30804-BLK1)				Prepared & Analyzed: 03/08/13						
Chloride	ND	1.00	mg/kg wet							
LCS (EC30804-BS1)				Prepared & Analyzed: 03/08/13						
Chloride	9.68		mg/kg Wet	10.0		96.8	80-120			
LCS Dup (EC30804-BSD1)				Prepared & Analyzed: 03/08/13						
Chloride	9.70		mg/kg Wet	10.0		97.0	80-120	0.206	20	
Duplicate (EC30804-DUP1)				Source: 3C04002-01 Prepared & Analyzed: 03/08/13						
Chloride	16.5	1.01	mg/kg dry		16.1			2.11	20	
Matrix Spike (EC30804-MS1)				Source: 3C04002-01 Prepared & Analyzed: 03/08/13						
Chloride	134	1.01	mg/kg dry	126	16.1	93.7	80-120			
Matrix Spike (EC30804-MS2)				Source: 3C04003-07 Prepared & Analyzed: 03/08/13						
Chloride	137	1.02	mg/kg dry	128	3.74	105	80-120			

Nova Safety & Environment
2057 Commerce
Midland TX, 79703

Project: SUG Trunk "O" 30 Inch
Project Number: [none]
Project Manager: Jonathan Repman

Fax: (432) 520-7701

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC30802 - TX 1005										
Blank (EC30802-BLK1)				Prepared & Analyzed: 03/07/13						
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	116		"	100		116	70-130			
Surrogate: o-Terphenyl	62.6		"	50.0		125	70-130			
LCS (EC30802-BS1)				Prepared & Analyzed: 03/07/13						
C6-C12	1240	25.0	mg/kg wet	1500		82.6	75-125			
>C12-C28	1270	25.0	"	1500		84.4	75-125			
>C28-C35	ND	25.0	"	0.00			75-125			
Surrogate: 1-Chlorooctane	109		"	100		109	70-130			
Surrogate: o-Terphenyl	60.9		"	50.0		122	70-130			
LCS Dup (EC30802-BSD1)				Prepared & Analyzed: 03/07/13						
C6-C12	1290	25.0	mg/kg wet	1500		86.0	75-125	4.03	20	
>C12-C28	1370	25.0	"	1500		91.6	75-125	8.18	20	
>C28-C35	ND	25.0	"	0.00			75-125		20	
Surrogate: 1-Chlorooctane	128		"	100		128	70-130			
Surrogate: o-Terphenyl	65.0		"	50.0		130	70-130			
Matrix Spike (EC30802-MS1)				Source: 3C05001-04	Prepared & Analyzed: 03/07/13					
C6-C12	1360	25.3	mg/kg dry	1520	ND	89.8	75-125			
>C12-C28	1290	25.3	"	1520	ND	85.2	75-125			
>C28-C35	195	25.3	"	0.00	ND		75-125			
Surrogate: 1-Chlorooctane	156		"	202		77.2	70-130			
Surrogate: o-Terphenyl	77.1		"	101		76.3	70-130			
Matrix Spike Dup (EC30802-MSD1)				Source: 3C05001-04	Prepared & Analyzed: 03/07/13					
C6-C12	1430	25.3	mg/kg dry	1520	ND	94.1	75-125	4.70	20	
>C12-C28	1310	25.3	"	1520	ND	86.6	75-125	1.54	20	
>C28-C35	ND	25.3	"	0.00	ND		75-125		20	
Surrogate: 1-Chlorooctane	165		"	202		81.8	70-130			
Surrogate: o-Terphenyl	78.1		"	101		77.3	70-130			

Permian Basin Environmental Lab

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

10014 SCR 1213 Midland, TX 79706 432-686-7235

Page 9 of 11

Nova Safety & Environment
2057 Commerce
Midland TX, 79703

Project: SUG Trunk "O" 30 Inch
Project Number: [none]
Project Manager: Jonathan Repman

Fax: (432) 520-7701

Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

3/8/2013

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
10014 SCR 1213
Midland, TX 79706**



Analytical Report

Prepared for:

Camille Bryant
Nova Safety & Environment
2057 Commerce
Midland, TX 79703

Project: SUG Historical Trunk O IRP-2667

Project Number: IRP-2667

Location: Lea County, New Mexico

Lab Order Number: 3C20006



NELAP/TCEQ # T104704156-12-1

Report Date: 03/21/13

Nova Safety & Environment
2057 Commerce
Midland TX, 79703

Project: SUG Historical Trunk O IRP-2667
Project Number: IRP-2667
Project Manager: Camille Bryant

Fax: (432) 520-7701

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
RPE West S/W @ 11'	3C20006-01	Soil	03/19/13 14:50	03-20-2013 15:32
RPE East S/W @ 9'	3C20006-02	Soil	03/19/13 15:00	03-20-2013 15:32
Surface	3C20006-03	Soil	03/19/13 11:30	03-20-2013 15:32

Nova Safety & Environment
2057 Commerce.
Midland TX, 79703

Project: SUG Historical Trunk O IRP-2667
Project Number: IRP-2667
Project Manager: Camille Bryant

Fax: (432) 520-7701

RPE West S/W @ 11'
3C20006-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab

Organics by GC

Benzene	ND	0.00100	mg/kg dry	1	EC32105	03/20/13	03/20/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EC32105	03/20/13	03/20/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EC32105	03/20/13	03/20/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EC32105	03/20/13	03/20/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EC32105	03/20/13	03/20/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		119 %	75-125		EC32105	03/20/13	03/20/13	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		64.6 %	75-125		EC32105	03/20/13	03/20/13	EPA 8021B	S-GC

General Chemistry Parameters by EPA / Standard Methods

Chloride	9.24	1.02	mg/kg dry	1	EC32106	03/21/13	03/21/13	EPA 300.0	
% Moisture	2.0	0.1	%	1	EC32104	03/20/13	03/21/13	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	EC32103	03/20/13	03/20/13	8015M	
>C12-C28	ND	25.5	mg/kg dry	1	EC32103	03/20/13	03/20/13	8015M	
>C28-C35	ND	25.5	mg/kg dry	1	EC32103	03/20/13	03/20/13	8015M	
Surrogate: 1-Chlorooctane		125 %	70-130		EC32103	03/20/13	03/20/13	8015M	
Surrogate: o-Terphenyl		105 %	70-130		EC32103	03/20/13	03/20/13	8015M	
Total Hydrocarbon nC6-nC35	ND	25.5	mg/kg dry	1	[CALC]	03/20/13	03/20/13	8015M	

Permian Basin Environmental Lab

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

10014 SCR 1213 Midland, TX 79706 432-686-7235

Nova Safety & Environment
2057 Commerce
Midland TX, 79703

Project: SUG Historical Trunk O IRP-2667
Project Number: IRP-2667
Project Manager: Camille Bryant

Fax: (432) 520-7701

RPE East S/W @ 9'
3C20006-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab									
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EC32105	03/20/13	03/20/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EC32105	03/20/13	03/20/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EC32105	03/20/13	03/20/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EC32105	03/20/13	03/20/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EC32105	03/20/13	03/20/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		120 %	75-125		EC32105	03/20/13	03/20/13	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		74.0 %	75-125		EC32105	03/20/13	03/20/13	EPA 8021B	S-GC
General Chemistry Parameters by EPA / Standard Methods									
Chloride	2.15	1.00	mg/kg dry	1	EC32106	03/21/13	03/21/13	EPA 300.0	
% Moisture	ND	0.1	%	1	EC32104	03/20/13	03/21/13	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.0	mg/kg dry	1	EC32103	03/20/13	03/20/13	8015M	
>C12-C28	ND	25.0	mg/kg dry	1	EC32103	03/20/13	03/20/13	8015M	
>C28-C35	ND	25.0	mg/kg dry	1	EC32103	03/20/13	03/20/13	8015M	
Surrogate: 1-Chlorooctane		134 %	70-130		EC32103	03/20/13	03/20/13	8015M	S-GC
Surrogate: o-Terphenyl		112 %	70-130		EC32103	03/20/13	03/20/13	8015M	
Total Hydrocarbon nC6-nC35	ND	25.0	mg/kg dry	1	[CALC]	03/20/13	03/20/13	8015M	

Permian Basin Environmental Lab

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

10014 SCR 1213 Midland, TX 79706 432-686-7235

Nova Safety & Environment
2057 Commerce
Midland TX, 79703

Project: SUG Historical Trunk O IRP-2667
Project Number: 1RP-2667
Project Manager: Camille Bryant

Fax: (432) 520-7701

Surface
3C20006-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab

Organics by GC

Benzene	ND	0.00100	mg/kg dry	1	EC32105	03/20/13	03/20/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EC32105	03/20/13	03/20/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EC32105	03/20/13	03/20/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EC32105	03/20/13	03/20/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EC32105	03/20/13	03/20/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		121 %	75-125		EC32105	03/20/13	03/20/13	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		71.0 %	75-125		EC32105	03/20/13	03/20/13	EPA 8021B	S-GC

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.01	mg/kg dry	1	EC32106	03/21/13	03/21/13	EPA 300.0	
% Moisture	1.0	0.1	%	1	EC32104	03/20/13	03/21/13	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	EC32103	03/20/13	03/20/13	8015M	
>C12-C28	ND	25.3	mg/kg dry	1	EC32103	03/20/13	03/20/13	8015M	
>C28-C35	ND	25.3	mg/kg dry	1	EC32103	03/20/13	03/20/13	8015M	
Surrogate: 1-Chlorooctane		119 %	70-130		EC32103	03/20/13	03/20/13	8015M	
Surrogate: o-Terphenyl		98.2 %	70-130		EC32103	03/20/13	03/20/13	8015M	
Total Hydrocarbon nC6-nC35	ND	25.3	mg/kg dry	1	[CALC]	03/20/13	03/20/13	8015M	

Permian Basin Environmental Lab

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

10014 SCR 1213 Midland, TX 79706 432-686-7235

Nova Safety & Environment
2057 Commerce
Midland TX, 79703

Project: SUG Historical Trunk O IRP-2667
Project Number: IRP-2667
Project Manager: Camille Bryant

Fax: (432) 520-7701

Organics by GC - Quality Control
Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC32105 - General Preparation (GC)										
Blank (EC32105-BLK1)										
Prepared & Analyzed: 03/20/13										
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	72.6		ug/kg	60.0		121	75-125			
Surrogate: 4-Bromofluorobenzene	43.1		"	60.0		71.9	75-125			S-GC
LCS (EC32105-BS1)										
Prepared & Analyzed: 03/20/13										
Benzene	0.0834	0.00100	mg/kg wet	0.100		83.4	80-120			
Toluene	0.120	0.00200	"	0.100		120	80-120			
Ethylbenzene	0.118	0.00100	"	0.100		118	80-120			
Xylene (p/m)	0.235	0.00200	"	0.200		117	80-120			
Xylene (o)	0.113	0.00100	"	0.100		113	80-120			
Surrogate: 1,4-Difluorobenzene	68.2		ug/kg	60.0		114	75-125			
Surrogate: 4-Bromofluorobenzene	62.4		"	60.0		104	75-125			
LCS Dup (EC32105-BSD1)										
Prepared & Analyzed: 03/20/13										
Benzene	0.0844	0.00100	mg/kg wet	0.100		84.4	80-120	1.16	20	
Toluene	0.120	0.00200	"	0.100		120	80-120	0.613	20	
Ethylbenzene	0.119	0.00100	"	0.100		119	80-120	1.02	20	
Xylene (p/m)	0.234	0.00200	"	0.200		117	80-120	0.211	20	
Xylene (o)	0.114	0.00100	"	0.100		114	80-120	0.960	20	
Surrogate: 1,4-Difluorobenzene	69.2		ug/kg	60.0		115	75-125			
Surrogate: 4-Bromofluorobenzene	63.6		"	60.0		106	75-125			
Matrix Spike (EC32105-MS1)										
Source: 3C20006-01 Prepared & Analyzed: 03/20/13										
Benzene	0.0693	0.00100	mg/kg dry	0.102	ND	68.0	80-120			QM-05
Toluene	0.0972	0.00200	"	0.102	ND	95.2	80-120			
Ethylbenzene	0.0886	0.00100	"	0.102	ND	86.8	80-120			
Xylene (p/m)	0.176	0.00200	"	0.204	ND	86.0	80-120			
Xylene (o)	0.0857	0.00100	"	0.102	ND	84.0	80-120			
Surrogate: 1,4-Difluorobenzene	69.0		ug/kg	60.0		115	75-125			
Surrogate: 4-Bromofluorobenzene	51.1		"	60.0		85.1	75-125			

Permian Basin Environmental Lab

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

10014 SCR 1213 Midland, TX 79706 432-686-7235

Page 6 of 11

Nova Safety & Environment
2057 Commerce
Midland TX, 79703

Project: SUG Historical Trunk O IRP-2667
Project Number: IRP-2667
Project Manager: Camille Bryant

Fax: (432) 520-7701

Organics by GC - Quality Control
Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC32105 - General Preparation (GC)										
Matrix Spike Dup (EC32105-MSD1)		Source: 3C20006-01			Prepared & Analyzed: 03/20/13					
Benzene	0.0696	0.00100	mg/kg dry	0.102	ND	68.2	80-120	0.426	20	QM-05
Toluene	0.0995	0.00200	"	0.102	ND	97.5	80-120	2.32	20	
Ethylbenzene	0.0980	0.00100	"	0.102	ND	96.1	80-120	10.1	20	
Xylene (p/m)	0.200	0.00200	"	0.204	ND	98.2	80-120	13.2	20	
Xylene (o)	0.0949	0.00100	"	0.102	ND	93.0	80-120	10.2	20	
Surrogate: 1,4-Difluorobenzene	70.1		ug/kg	60.0		117	75-125			
Surrogate: 4-Bromofluorobenzene	63.6		"	60.0		106	75-125			

Nova Safety & Environment
2057 Commerce
Midland TX, 79703

Project: SUG Historical Trunk O IRP-2667
Project Number: 1RP-2667
Project Manager: Camille Bryant

Fax: (432) 520-7701

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC32104 - *** DEFAULT PREP ***										
Blank (EC32104-BLK1)					Prepared: 03/20/13 Analyzed: 03/21/13					
% Moisture	ND	0.1	%							
Duplicate (EC32104-DUP1)					Source: 3C20004-01 Prepared: 03/20/13 Analyzed: 03/21/13					
% Moisture	1.2	0.1	%		1.6			28.6	20	R2
Batch EC32106 - *** DEFAULT PREP ***										
Blank (EC32106-BLK1)					Prepared & Analyzed: 03/21/13					
Chloride	ND	1.00	mg/kg wet							
LCS (EC32106-BS1)					Prepared & Analyzed: 03/21/13					
Chloride	11.2		mg/kg Wet	10.0		112	80-120			
LCS Dup (EC32106-BSD1)					Prepared & Analyzed: 03/21/13					
Chloride	11.0		mg/kg Wet	10.0		110	80-120	1.49	20	
Duplicate (EC32106-DUP1)					Source: 3C20006-01 Prepared & Analyzed: 03/21/13					
Chloride	9.19	1.02	mg/kg dry		9.24			0.553	20	
Matrix Spike (EC32106-MS1)					Source: 3C20006-01 Prepared & Analyzed: 03/21/13					
Chloride	105	1.02	mg/kg dry	89.3	9.24	108	80-120			

Permian Basin Environmental Lab

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

10014 SCR 1213 Midland, TX 79706 432-686-7235

Nova Safety & Environment
2057 Commerce
Midland TX, 79703

Project: SUG Historical Trunk O IRP-2667
Project Number: 1RP-2667
Project Manager: Camille Bryant

Fax: (432) 520-7701

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC32103 - 8015M										
Blank (EC32103-BLK1)				Prepared & Analyzed: 03/20/13						
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	71.6		"	100		71.6	70-130			
Surrogate: o-Terphenyl	26.4		"	50.0		52.8	70-130			S-GC
LCS (EC32103-BS1)				Prepared & Analyzed: 03/20/13						
C6-C12	961	25.0	mg/kg wet	1000		96.1	75-125			
>C12-C28	956	25.0	"	1000		95.6	75-125			
>C28-C35	26.9	25.0	"	0.00			75-125			
Surrogate: 1-Chlorooctane	57.5		"	50.0		115	70-130			
Surrogate: o-Terphenyl	21.3		"	25.0		85.1	70-130			
LCS Dup (EC32103-BSD1)				Prepared & Analyzed: 03/20/13						
C6-C12	940	25.0	mg/kg wet	1000		94.0	75-125	2.19	20	
>C12-C28	1020	25.0	"	1000		102	75-125	6.79	20	
>C28-C35	29.4	25.0	"	0.00			75-125		20	
Surrogate: 1-Chlorooctane	69.8		"	50.0		140	70-130			S-GC
Surrogate: o-Terphenyl	20.7		"	25.0		82.8	70-130			
Matrix Spike (EC32103-MS1)				Source: 3C20006-01 Prepared & Analyzed: 03/20/13						
C6-C12	922	25.5	mg/kg dry	1020	ND	90.4	75-125			
>C12-C28	941	25.5	"	1020	ND	92.2	75-125			
>C28-C35	80.6	25.5	"	0.00	ND		75-125			
Surrogate: 1-Chlorooctane	64.2		"	51.0		126	70-130			
Surrogate: o-Terphenyl	22.0		"	25.5		86.1	70-130			
Matrix Spike Dup (EC32103-MSD1)				Source: 3C20006-01 Prepared: 03/20/13 Analyzed: 03/21/13						
C6-C12	932	25.5	mg/kg dry	1020	ND	91.4	75-125	1.08	20	
>C12-C28	958	25.5	"	1020	ND	93.9	75-125	1.78	20	
>C28-C35	36.2	25.5	"	0.00	ND		75-125		20	
Surrogate: 1-Chlorooctane	66.6		"	51.0		131	70-130			S-GC
Surrogate: o-Terphenyl	22.9		"	25.5		89.8	70-130			

Permian Basin Environmental Lab

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

10014 SCR 1213 Midland, TX 79706 432-686-7235

Nova Safety & Environment
2057 Commerce
Midland TX, 79703

Project: SUG Historical Trunk O IRP-2667
Project Number: 1RP-2667
Project Manager: Camille Bryant

Fax: (432) 520-7701

Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

R2 The RPD exceeded the acceptance limit.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

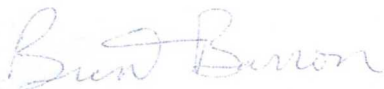
RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By: _____



Date: 3/21/2013

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

10014 SCR 1213 Midland, TX 79706 432-686-7235

Page 10 of 11

Project Manager: Camille Bryant

Company Name NOVA Safety and Environmental

Company Address: 2057 Commerce

City/State/Zip: Midland, Texas 79703

Telephone No: 432.520.7720

Sampler Signature: Samuel D. Bortnick

Fax No: 432.520.7701
e-mail: cbryant@novatraininq.cc

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Project Loc: Lea County New Mexico
PO #: _____

Project Name: SUG Historical Trunk O 1RP-2667

Project #:

Page 11 of 11

[illegible]

**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
10014 SCR 1213
Midland, TX 79706**



Analytical Report

Prepared for:

Camille Bryant
Nova Safety & Environment
2057 Commerce
Midland, TX 79703

Project: SUG Historical Trunk O IRP-2667

Project Number: IRP-2667

Location: Lea County, New Mexico

Lab Order Number: 3C22001



NELAP/TCEQ # T104704156-12-1

Report Date: 03/22/13

Nova Safety & Environment
2057 Commerce
Midland TX, 79703

Project: SUG Historical Trunk O IRP-2667
Project Number: 1RP-2667
Project Manager: Camille Bryant

Fax: (432) 520-7701

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP-1	3C22001-01	Soil	03/21/13 15:30	03-22-2013 09:25
SP-2	3C22001-02	Soil	03/21/13 15:32	03-22-2013 09:25

Nova Safety & Environment
2057 Commerce
Midland TX, 79703

Project: SUG Historical Trunk O IRP-2667
Project Number: IRP-2667
Project Manager: Camille Bryant

Fax: (432) 520-7701

SP-1
3C22001-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab

Organics by GC

Benzene	ND	0.00100	mg/kg dry	1	EC32208	03/22/13	03/22/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EC32208	03/22/13	03/22/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EC32208	03/22/13	03/22/13	EPA 8021B	
Xylene (p/m)	0.00410	0.00200	mg/kg dry	1	EC32208	03/22/13	03/22/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EC32208	03/22/13	03/22/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		114 %	75-125		EC32208	03/22/13	03/22/13	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		81.2 %	75-125		EC32208	03/22/13	03/22/13	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	26.3	1.02	mg/kg dry	1	EC32206	03/22/13	03/22/13	EPA 300.0	
% Moisture	2.0	0.1	%	1	EC32205	03/22/13	03/22/13	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	EC32207	03/22/13	03/22/13	8015M	
>C12-C28	ND	25.5	mg/kg dry	1	EC32207	03/22/13	03/22/13	8015M	
>C28-C35	ND	25.5	mg/kg dry	1	EC32207	03/22/13	03/22/13	8015M	
Surrogate: 1-Chlorooctane		104 %	70-130		EC32207	03/22/13	03/22/13	8015M	
Surrogate: o-Terphenyl		81.0 %	70-130		EC32207	03/22/13	03/22/13	8015M	
Total Hydrocarbon nC6-nC35	ND	25.5	mg/kg dry	1	[CALC]	03/22/13	03/22/13	8015M	

Permian Basin Environmental Lab

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

10014 SCR 1213 Midland, TX 79706 432-686-7235

Page 3 of 10

Nova Safety & Environment
2057 Commerce
Midland TX, 79703

Project: SUG Historical Trunk O IRP-2667
Project Number: IRP-2667
Project Manager: Camille Bryant

Fax: (432) 520-7701

SP-2
3C22001-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab

Organics by GC

Benzene	ND	0.00100	mg/kg dry	1	EC32208	03/22/13	03/22/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EC32208	03/22/13	03/22/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EC32208	03/22/13	03/22/13	EPA 8021B	
Xylene (p/m)	0.0159	0.00200	mg/kg dry	1	EC32208	03/22/13	03/22/13	EPA 8021B	
Xylene (o)	0.00626	0.00100	mg/kg dry	1	EC32208	03/22/13	03/22/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		110 %	75-125		EC32208	03/22/13	03/22/13	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		112 %	75-125		EC32208	03/22/13	03/22/13	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	17.4	1.03	mg/kg dry	1	EC32206	03/22/13	03/22/13	EPA 300.0	
% Moisture	3.0	0.1	%	1	EC32205	03/22/13	03/22/13	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	EC32207	03/22/13	03/22/13	8015M	
>C12-C28	ND	25.8	mg/kg dry	1	EC32207	03/22/13	03/22/13	8015M	
>C28-C35	ND	25.8	mg/kg dry	1	EC32207	03/22/13	03/22/13	8015M	
Surrogate: 1-Chlorooctane		112 %	70-130		EC32207	03/22/13	03/22/13	8015M	
Surrogate: o-Terphenyl		86.0 %	70-130		EC32207	03/22/13	03/22/13	8015M	
Total Hydrocarbon nC6-nC35	ND	25.8	mg/kg dry	1	[CALC]	03/22/13	03/22/13	8015M	

Permian Basin Environmental Lab

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

10014 SCR 1213 Midland, TX 79706 432-686-7235

Nova Safety & Environment
2057 Commerce
Midland TX, 79703

Project: SUG Historical Trunk O IRP-2667
Project Number: IRP-2667
Project Manager: Camille Bryant

Fax: (432) 520-7701

Organics by GC - Quality Control
Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC32208 - General Preparation (GC)										
Blank (EC32208-BLK1)										
Prepared & Analyzed: 03/22/13										
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	70.4		ug/kg	60.0		117	75-125			
Surrogate: 4-Bromofluorobenzene	43.8		"	60.0		73.0	75-125			S-GC
LCS (EC32208-BS1)										
Prepared & Analyzed: 03/22/13										
Benzene	0.0750	0.00100	mg/kg wet	0.100		75.0	70-120			
Toluene	0.106	0.00200	"	0.100		106	70-120			
Ethylbenzene	0.107	0.00100	"	0.100		107	70-120			
Xylene (p/m)	0.219	0.00200	"	0.200		110	70-120			
Xylene (o)	0.103	0.00100	"	0.100		103	70-120			
Surrogate: 1,4-Difluorobenzene	70.4		ug/kg	60.0		117	75-125			
Surrogate: 4-Bromofluorobenzene	63.2		"	60.0		105	75-125			
LCS Dup (EC32208-BSD1)										
Prepared & Analyzed: 03/22/13										
Benzene	0.0728	0.00100	mg/kg wet	0.100		72.8	70-120	3.03	20	
Toluene	0.104	0.00200	"	0.100		104	70-120	1.89	20	
Ethylbenzene	0.105	0.00100	"	0.100		105	70-120	2.17	20	
Xylene (p/m)	0.214	0.00200	"	0.200		107	70-120	2.31	20	
Xylene (o)	0.101	0.00100	"	0.100		101	70-120	1.70	20	
Surrogate: 1,4-Difluorobenzene	70.6		ug/kg	60.0		118	75-125			
Surrogate: 4-Bromofluorobenzene	63.6		"	60.0		106	75-125			
Matrix Spike (EC32208-MS1)										
Source: 3C22001-01 Prepared & Analyzed: 03/22/13										
Benzene	0.0450	0.00100	mg/kg dry	0.102	ND	44.1	70-120			QM-07
Toluene	0.0608	0.00200	"	0.102	ND	59.6	70-120			QM-07
Ethylbenzene	0.0590	0.00100	"	0.102	ND	57.8	70-120			QM-07
Xylene (p/m)	0.120	0.00200	"	0.204	0.00410	56.9	70-120			QM-07
Xylene (o)	0.0715	0.00100	"	0.102	ND	70.1	70-120			
Surrogate: 1,4-Difluorobenzene	69.8		ug/kg	60.0		116	75-125			
Surrogate: 4-Bromofluorobenzene	75.5		"	60.0		126	75-125			S-GC

Permian Basin Environmental Lab

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

10014 SCR 1213 Midland, TX 79706 432-686-7235

Page 5 of 10

Nova Safety & Environment
2057 Commerce
Midland TX, 79703

Project: SUG Historical Trunk O IRP-2667
Project Number: IRP-2667
Project Manager: Camille Bryant

Fax: (432) 520-7701

Organics by GC - Quality Control
Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch EC32208 - General Preparation (GC)

Matrix Spike Dup (EC32208-MSD1)

Source: 3C22001-01

Prepared & Analyzed: 03/22/13

Benzene	0.0553	0.00100	mg/kg dry	0.102	ND	54.2	70-120	20.6	20	QM-07
Toluene	0.0764	0.00200	"	0.102	ND	74.9	70-120	22.7	20	QM-07
Ethylbenzene	0.0743	0.00100	"	0.102	ND	72.8	70-120	23.0	20	QM-07
Xylene (p/m)	0.150	0.00200	"	0.204	0.00410	71.6	70-120	22.9	20	QM-07
Xylene (o)	0.0822	0.00100	"	0.102	ND	80.5	70-120	13.9	20	
Surrogate: 1,4-Difluorobenzene	69.8		ug/kg	60.0		116	75-125			
Surrogate: 4-Bromofluorobenzene	77.4		"	60.0		129	75-125			S-GC

Permian Basin Environmental Lab

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

10014 SCR 1213 Midland, TX 79706 432-686-7235

Nova Safety & Environment
2057 Commerce
Midland TX, 79703

Project: SUG Historical Trunk O IRP-2667
Project Number: IRP-2667
Project Manager: Camille Bryant

Fax: (432) 520-7701

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC32205 - *** DEFAULT PREP ***										
Blank (EC32205-BLK1)				Prepared & Analyzed: 03/22/13						
% Moisture	ND	0.1	%							
Duplicate (EC32205-DUP1)				Source: 3C21001-01		Prepared & Analyzed: 03/22/13				
% Moisture	4.3	0.1	%		3.8			12.3	20	
Batch EC32206 - *** DEFAULT PREP ***										
Blank (EC32206-BLK1)				Prepared & Analyzed: 03/22/13						
Chloride	ND	1.00	mg/kg wet							
LCS (EC32206-BS1)				Prepared & Analyzed: 03/22/13						
Chloride	10.4		mg/kg Wet	10.0		104	80-120			
LCS Dup (EC32206-BSD1)				Prepared & Analyzed: 03/22/13						
Chloride	10.4		mg/kg Wet	10.0		104	80-120	0.288	20	
Duplicate (EC32206-DUP1)				Source: 3C22001-01		Prepared & Analyzed: 03/22/13				
Chloride	26.1	1.02	mg/kg dry		26.3			0.623	20	
Matrix Spike (EC32206-MS1)				Source: 3C22001-01		Prepared & Analyzed: 03/22/13				
Chloride	140	1.02	mg/kg dry	89.3	26.3	128	80-120			M1

Nova Safety & Environment
2057 Commerce
Midland TX, 79703

Project: SUG Historical Trunk O IRP-2667
Project Number: 1RP-2667
Project Manager: Camille Bryant

Fax: (432) 520-7701

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC32207 - 8015M										
Blank (EC32207-BLK1)				Prepared & Analyzed: 03/22/13						
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	56.7		"	50.0		113	70-130			
Surrogate: o-Terphenyl	21.8		"	25.0		87.3	70-130			
LCS (EC32207-BS1)				Prepared & Analyzed: 03/22/13						
C6-C12	826	25.0	mg/kg wet	1000		82.6	75-125			
>C12-C28	791	25.0	"	1000		79.1	75-125			
>C28-C35	ND	25.0	"	0.00			75-125			
Surrogate: 1-Chlorooctane	66.7		"	50.0		133	70-130			S-GC
Surrogate: o-Terphenyl	20.9		"	25.0		83.7	70-130			
LCS Dup (EC32207-BSD1)				Prepared & Analyzed: 03/22/13						
C6-C12	816	25.0	mg/kg wet	1000		81.6	75-125	1.19	20	
>C12-C28	774	25.0	"	1000		77.4	75-125	2.13	20	
>C28-C35	ND	25.0	"	0.00			75-125		20	
Surrogate: 1-Chlorooctane	65.0		"	50.0		130	70-130			
Surrogate: o-Terphenyl	20.6		"	25.0		82.4	70-130			
Matrix Spike (EC32207-MS1)				Source: 3C22001-01		Prepared & Analyzed: 03/22/13				
C6-C12	784	25.5	mg/kg dry	1020	ND	76.8	75-125			
>C12-C28	729	25.5	"	1020	ND	71.4	75-125			QM-07
>C28-C35	32.6	25.5	"	0.00	ND		75-125			
Surrogate: 1-Chlorooctane	58.4		"	51.0		114	70-130			
Surrogate: o-Terphenyl	17.8		"	25.5		70.0	70-130			
Matrix Spike Dup (EC32207-MSD1)				Source: 3C22001-01		Prepared & Analyzed: 03/22/13				
C6-C12	848	25.5	mg/kg dry	1020	ND	83.1	75-125	7.92	20	
>C12-C28	825	25.5	"	1020	ND	80.9	75-125	12.4	20	
>C28-C35	26.5	25.5	"	0.00	ND		75-125		20	
Surrogate: 1-Chlorooctane	76.1		"	51.0		149	70-130			S-GC
Surrogate: o-Terphenyl	20.1		"	25.5		78.7	70-130			

Permian Basin Environmental Lab

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

10014 SCR 1213 Midland, TX 79706 432-686-7235

Nova Safety & Environment
2057 Commerce
Midland TX, 79703

Project: SUG Historical Trunk O IRP-2667
Project Number: 1RP-2667
Project Manager: Camille Bryant

Fax: (432) 520-7701

Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

M1 The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

3/22/2013

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

10014 SCR 1213 Midland, TX 79706 432-686-7235

Page 9 of 10

Client: Southern Union Gas Services

Prepared by: NOVA

Project Name:

Trunk "O" 12/6/2010 Historical Release Site
Trunk "O" 12/6/2012 30 Inch Release Site

Location: Lea County, New Mexico

Photograph No. 1

Direction:
Facing North

Description:
View of impacted surface area, prior to excavation activities. Repair of Trunk "O" 30 inch Pipeline in progress.



Photograph No. 2

Direction:
Facing South

Description:
Impacted area prior to commencing remediation activities.



Client: Southern Union Gas Services

Prepared by: NOVA

Project Name:

Trunk "O" 12/6/2010 Historical Release Site

Trunk "O" 12/6/2012 30 Inch Release Site

Location: Lea County, New Mexico

Photograph No. 3

Direction:

Facing North

Description:

View of excavation activities.



Photograph No. 4

Direction:

Facing North

Description:

View of excavation activities.

