Analytical Report 519877

for

Tetra Tech- Midland

Project Manager: Ike Tavarez

Globe Eunice Facility

212C-MD-00374

24-MAY-16

Collected By: Client

1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-15-19), Arizona (AZ0765), Florida (E871002), Louisiana (03054)
Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400)
Xenco-San Antonio: Texas (T104704534-15-1)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)
Texas (T104704477), Louisiana (04176), USDA (P330-07-00105)

Xenco-Lakeland: Florida (E84098)

24-MAY-16

Project Manager: **Ike Tavarez**
Tetra Tech- Midland
4000 N. Big Spring Suite 401
Midland, TX 79705

Reference: XENCO Report No(s): **519877**
Globe Eunice Facility
Project Address: Lea Co, NM

Ike Tavarez:

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) 519877. 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. 519877 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

Sample Cross Reference 519877

Tetra Tech- Midland, Midland, TX

Globe Eunice Facility

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
AH 1 (0-1')	S	11-19-15 00:00	0 - 1 ft	519877-001
AH 1 (1-1.5')	S	11-19-15 00:00	1 - 1.5 ft	519877-002
AH 1 (2-2.5')	S	11-19-15 00:00	2 - 2.5 ft	519877-003
AH 2 (0-1')	S	11-19-15 00:00	0 - 1 ft	519877-004
AH 2 (1-1.5')	S	11-19-15 00:00	1 - 1.5 ft	519877-005
AH 3 (0-1')	S	11-19-15 00:00	0 - 1 ft	519877-006
AH 4 (0-1')	S	11-19-15 00:00	0 - 1 ft	519877-007
AH 4 (1-1.5')	S	11-19-15 00:00	1 - 1.5 ft	519877-008
AH 4 (2-2.5')	S	11-19-15 00:00	2 - 2.5 ft	519877-009
AH 4 (2.5-3')	S	11-19-15 00:00	2.5 - 3 ft	519877-010
AH 5 (0-1')	S	11-19-15 00:00	0 - 1 ft	519877-011
AH 5 (1-1.5')	S	11-19-15 00:00	1 - 1.5 ft	519877-012
AH 5 (2-2.5')	S	11-19-15 00:00	2 - 2.5 ft	519877-013
AH 5 (2.5-3')	S	11-19-15 00:00	2.5 - 3 ft	519877-014
AH 6 (0-1')	S	11-19-15 00:00	0 - 1 ft	519877-015
AH 7 (0-1')	S	11-19-15 00:00	0 - 1 ft	519877-016
AH 8 (0-1')	S	11-19-15 00:00	0 - 1 ft	519877-017
AH 9 (0-1')	S	11-19-15 00:00	0 - 1 ft	519877-018
AH 9 (1-1.5')	S	11-19-15 00:00	1 - 1.5 ft	519877-019
AH 10 (0-1')	S	11-19-15 00:00	0 - 1 ft	519877-020
AH 11 (0-1')	S	11-19-15 00:00	0 - 1 ft	519877-021
AH 11 (1-1.5')	S	11-19-15 00:00	1 - 1.5 ft	519877-022
AH 12 (0-1')	S	11-19-15 00:00	0 - 1 ft	519877-023
AH 13 (0-1')	S	11-19-15 00:00	0 - 1 ft	519877-024
AH 14 (0-1')	S	11-19-15 00:00	0 - 1 ft	519877-025
AH 15 (0-6")	S	11-19-15 00:00	0 - 6 In	519877-026
AH 16 (0-1')	S	11-19-15 00:00	0 - 1 ft	519877-027
AH 16 (1-1.5')	S	11-19-15 00:00	1 - 1.5 ft	519877-028
AH 17 (0-1')	S	11-19-15 00:00	0 - 1 ft	519877-029
AH 18 (0-6")	S	11-19-15 00:00	0 - 6 In	519877-030
AH 19 (0-6")	S	11-19-15 00:00	0 - 6 In	519877-031
AH 20 (0-6")	S	11-19-15 00:00	0 - 6 In	519877-032
AH 21 (0-1')	S	11-19-15 00:00	0 - 1 ft	519877-033
AH 21 (1-1.5')	S	11-19-15 00:00	1 - 1.5 ft	519877-034
AH 22 (0-1')	S	11-19-15 00:00	0 - 1 ft	519877-035
AH 22 (1-1.5')	S	11-19-15 00:00	1 - 1.5 ft	519877-036
AH 23 (0-1')	S	11-19-15 00:00	0 - 1 ft	519877-037
AH 23 (1-1.5')	S	11-19-15 00:00	1 - 1.5 ft	519877-038
AH 23 (2-2.5')	S	11-19-15 00:00	2 - 2.5 ft	519877-039
AH 24 (0-1')	S	11-19-15 00:00	0 - 1 ft	519877-040

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-982346 BTEX by EPA 8021B

Lab Sample ID 519877-026 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 519877-001, -006, -007, -017, -026, -027, -033, -035.

The Laboratory Control Sample for Toluene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

Ethylbenzene Relative Percent Difference (RPD) between matrix spike and duplicate was above quality control limits.

Samples in the analytical batch are: 519877-001, -006, -007, -017, -026, -027, -033, -035

Certificate of Analysis Summary 519877

Tetra Tech- Midland, Midland, TX

Project Name: Globe Eunice Facility

Project Id: 212C-MD-00374
Contact: Ike Tavarez
Project Location: Lea Co, NM

Date Received in Lab: Fri Nov-20-15 11:18 am
Report Date: 24-MAY-16
Project Manager: Kelsey Brooks

Analysis Requested													
	Lab Id:	519877-001		519877-002		519877-003		519877-004		519877-005		519877-006	
	Field Id:	AH 1 (0-1')		AH 1 (1-1.5')		AH 1 (2-2.5')		AH 2 (0-1')		AH 2 (1-1.5')		AH 3 (0-1')	
	Depth:	0-1 ft		1-1.5 ft		2-2.5 ft		0-1 ft		1-1.5 ft		0-1 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Nov-19-15 00:00		Nov-19-15 00:00		Nov-19-15 00:00		Nov-19-15 00:00		Nov-19-15 00:00		Nov-19-15 00:00	
BTEX by EPA 8021B	***Extracted:***	Nov-25-15 13:00										Nov-25-15 13:00	
	Analyzed:	Nov-25-15 16:38										Nov-30-15 11:30	
	Units/RL:	mg/kg	RL									mg/kg	RL
Benzene		ND	0.00101									ND	0.00166
Toluene		ND	0.00202									ND	0.00332
Ethylbenzene		ND	0.00101									ND	0.00166
m,p-Xylenes		ND	0.00202									ND	0.00332
o-Xylene		ND	0.00101									ND	0.00166
Total Xylenes		ND	0.00101									ND	0.00166
Total BTEX		ND	0.00101									ND	0.00166
Inorganic Anions by EPA 300/300.1	***Extracted:***	Nov-24-15 15:00		Nov-24-15 15:00		Nov-24-15 15:00		Nov-24-15 15:00		Nov-24-15 15:00		Nov-24-15 15:00	
	Analyzed:	Nov-24-15 16:06		Nov-24-15 16:52		Nov-24-15 18:00		Nov-30-15 11:44		Nov-30-15 12:07		Nov-24-15 19:08	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		320	20.0	1020	100	4590	400	3080	200	2800	200	625	40.0
TPH By SW8015 Mod	***Extracted:***	Nov-23-15 18:00		Nov-25-15 16:00				Nov-23-15 18:00				Nov-23-15 18:00	
	Analyzed:	Nov-24-15 23:32		Nov-25-15 16:41				Nov-24-15 03:53				Nov-24-15 04:19	
	Units/RL:	mg/kg	RL	mg/kg	RL			mg/kg	RL			mg/kg	RL
C6-C10 Gasoline Range Hydrocarbons		ND	15.0	16.6	15.0			ND	14.9			ND	15.0
C10-C28 Diesel Range Hydrocarbons		350	15.0	ND	15.0			ND	14.9			826	15.0
Total TPH		350	15.0	16.6	15.0			ND	14.9			826	15.0

Kelsey Brooks
Project Manager

Certificate of Analysis Summary 519877

Tetra Tech- Midland, Midland, TX

Project Name: Globe Eunice Facility

Project Id: 212C-MD-00374
Contact: Ike Tavarez
Project Location: Lea Co, NM

Date Received in Lab: Fri Nov-20-15 11:18 am
Report Date: 24-MAY-16
Project Manager: Kelsey Brooks

Analysis Requested													
	Lab Id:	519877-007		519877-008		519877-009		519877-010		519877-011		519877-012	
	Field Id:	AH 4 (0-1')		AH 4 (1-1.5')		AH 4 (2-2.5')		AH 4 (2.5-3')		AH 5 (0-1')		AH 5 (1-1.5')	
	Depth:	0-1 ft		1-1.5 ft		2-2.5 ft		2.5-3 ft		0-1 ft		1-1.5 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Nov-19-15 00:00		Nov-19-15 00:00		Nov-19-15 00:00		Nov-19-15 00:00		Nov-19-15 00:00		Nov-19-15 00:00	
BTEX by EPA 8021B	***Extracted:***	Nov-25-15 13:00				Nov-30-15 15:00							
	Analyzed:	Nov-25-15 17:11				Nov-30-15 15:23							
	Units/RL:	mg/kg	RL			mg/kg	RL						
Benzene		ND	0.00101			ND	0.00101						
Toluene		ND	0.00202			ND	0.00202						
Ethylbenzene		ND	0.00101			ND	0.00101						
m,p-Xylenes		ND	0.00202			ND	0.00202						
o-Xylene		ND	0.00101			ND	0.00101						
Total Xylenes		ND	0.00101			ND	0.00101						
Total BTEX		ND	0.00101			ND	0.00101						
Inorganic Anions by EPA 300/300.1	***Extracted:***	Nov-24-15 15:00		Nov-24-15 15:00		Nov-24-15 15:00		Nov-24-15 15:00		Nov-24-15 15:00		Nov-24-15 15:00	
	Analyzed:	Nov-24-15 19:30		Nov-24-15 19:53		Nov-24-15 20:16		Nov-24-15 20:38		Nov-24-15 21:01		Nov-24-15 22:32	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		676	40.0	971	100	4080	200	5190	400	110	10.0	32.2	10.0
TPH By SW8015 Mod	***Extracted:***	Nov-23-15 18:00		Nov-25-15 16:00		Nov-25-15 16:00		Nov-25-15 17:00		Nov-23-15 18:00			
	Analyzed:	Nov-24-15 04:45		Nov-25-15 17:13		Nov-25-15 17:43		Nov-30-15 12:30		Nov-24-15 05:14			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
C6-C10 Gasoline Range Hydrocarbons		116	74.9	ND	15.0	ND	15.0	ND	15.0	ND	15.0		
C10-C28 Diesel Range Hydrocarbons		2690	74.9	183	15.0	223	15.0	133	15.0	ND	15.0		
Total TPH		2810	74.9	183	15.0	223	15.0	133	15.0	ND	15.0		

Kelsey Brooks
Project Manager

Certificate of Analysis Summary 519877

Tetra Tech- Midland, Midland, TX

Project Name: Globe Eunice Facility

Project Id: 212C-MD-00374
Contact: Ike Tavarez
Project Location: Lea Co, NM

Date Received in Lab: Fri Nov-20-15 11:18 am
Report Date: 24-MAY-16
Project Manager: Kelsey Brooks

Analysis Requested													
	Lab Id:	519877-013		519877-014		519877-015		519877-016		519877-017		519877-018	
	Field Id:	AH 5 (2-2.5')		AH 5 (2.5-3')		AH 6 (0-1')		AH 7 (0-1')		AH 8 (0-1')		AH 9 (0-1')	
	Depth:	2-2.5 ft		2.5-3 ft		0-1 ft		0-1 ft		0-1 ft		0-1 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Nov-19-15 00:00		Nov-19-15 00:00		Nov-19-15 00:00		Nov-19-15 00:00		Nov-19-15 00:00		Nov-19-15 00:00	
BTEX by EPA 8021B	***Extracted:***									Nov-25-15 13:00			
	Analyzed:									Nov-30-15 11:13			
	Units/RL:									mg/kg	RL		
Benzene										ND	0.00164		
Toluene										ND	0.00328		
Ethylbenzene										ND	0.00164		
m,p-Xylenes										ND	0.00328		
o-Xylene										ND	0.00164		
Total Xylenes										ND	0.00164		
Total BTEX										ND	0.00164		
Inorganic Anions by EPA 300/300.1	***Extracted:***	Nov-24-15 15:00		Nov-24-15 15:00		Nov-24-15 15:00		Nov-24-15 15:00		Nov-24-15 15:00		Nov-24-15 15:00	
	Analyzed:	Nov-24-15 22:55		Nov-24-15 23:17		Nov-24-15 23:40		Nov-25-15 00:03		Nov-25-15 00:25		Nov-25-15 00:48	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		70.9	10.0	29.7	10.0	3050	200	588	40.0	44.1	10.0	1370	100
TPH By SW8015 Mod	***Extracted:***					Nov-23-15 18:00		Nov-23-15 18:00		Nov-23-15 18:00		Nov-23-15 18:00	
	Analyzed:					Nov-24-15 05:41		Nov-24-15 06:09		Nov-24-15 06:38		Nov-24-15 07:31	
	Units/RL:					mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C10 Gasoline Range Hydrocarbons						ND	15.0	ND	15.0	107	74.7	ND	15.0
C10-C28 Diesel Range Hydrocarbons						ND	15.0	ND	15.0	1260	74.7	ND	15.0
Total TPH						ND	15.0	ND	15.0	1370	74.7	ND	15.0

Kelsey Brooks
Project Manager

Certificate of Analysis Summary 519877

Tetra Tech- Midland, Midland, TX

Project Name: Globe Eunice Facility

Project Id: 212C-MD-00374
Contact: Ike Tavarez
Project Location: Lea Co, NM

Date Received in Lab: Fri Nov-20-15 11:18 am
Report Date: 24-MAY-16
Project Manager: Kelsey Brooks

Analysis Requested													
	Lab Id:	519877-019		519877-020		519877-021		519877-022		519877-023		519877-024	
	Field Id:	AH 9 (1-1.5')		AH 10 (0-1')		AH 11 (0-1')		AH 11 (1-1.5')		AH 12 (0-1')		AH 13 (0-1')	
	Depth:	1-1.5 ft		0-1 ft		0-1 ft		1-1.5 ft		0-1 ft		0-1 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Nov-19-15 00:00		Nov-19-15 00:00		Nov-19-15 00:00		Nov-19-15 00:00		Nov-19-15 00:00		Nov-19-15 00:00	
Inorganic Anions by EPA 300/300.1	***Extracted:***	Nov-24-15 15:00		Nov-24-15 15:00		Nov-24-15 17:00		Nov-24-15 17:00		Nov-24-15 17:00		Nov-24-15 17:00	
	Analyzed:	Nov-25-15 01:11		Nov-25-15 01:33		Nov-25-15 03:50		Nov-25-15 04:35		Nov-25-15 04:58		Nov-25-15 05:21	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		32.6	10.0	215	200	64.4	2.00	69.3	2.00	1230	100	610	40.0
TPH By SW8015 Mod	***Extracted:***			Nov-23-15 18:00		Nov-23-15 18:00				Nov-23-15 18:00		Nov-23-15 18:00	
	Analyzed:			Nov-24-15 07:57		Nov-24-15 08:23				Nov-24-15 08:50		Nov-24-15 09:16	
	Units/RL:			mg/kg	RL	mg/kg	RL			mg/kg	RL	mg/kg	RL
C6-C10 Gasoline Range Hydrocarbons				ND	15.0	ND	15.0			ND	15.0	ND	14.9
C10-C28 Diesel Range Hydrocarbons				ND	15.0	ND	15.0			ND	15.0	ND	14.9
Total TPH				ND	15.0	ND	15.0			ND	15.0	ND	14.9

Kelsey Brooks
Project Manager

Certificate of Analysis Summary 519877

Tetra Tech- Midland, Midland, TX

Project Name: Globe Eunice Facility

Project Id: 212C-MD-00374
Contact: Ike Tavarez
Project Location: Lea Co, NM

Date Received in Lab: Fri Nov-20-15 11:18 am
Report Date: 24-MAY-16
Project Manager: Kelsey Brooks

Analysis Requested													
	Lab Id:	519877-025		519877-026		519877-027		519877-028		519877-029		519877-030	
	Field Id:	AH 14 (0-1')		AH 15 (0-6")		AH 16 (0-1')		AH 16 (1-1.5')		AH 17 (0-1')		AH 18 (0-6")	
	Depth:	0-1 ft		0-6 In		0-1 ft		1-1.5 ft		0-1 ft		0-6 In	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Nov-19-15 00:00		Nov-19-15 00:00		Nov-19-15 00:00		Nov-19-15 00:00		Nov-19-15 00:00		Nov-19-15 00:00	
BTEX by EPA 8021B	***Extracted:***			Nov-25-15 13:00		Nov-25-15 13:00							
	Analyzed:			Nov-25-15 14:40		Nov-25-15 14:59							
	Units/RL:			mg/kg	RL	mg/kg	RL						
Benzene				ND	0.000992	ND	0.00101						
Toluene				ND	0.00198	ND	0.00201						
Ethylbenzene				ND	0.000992	ND	0.00101						
m,p-Xylenes				ND	0.00198	ND	0.00201						
o-Xylene				ND	0.000992	ND	0.00101						
Total Xylenes				ND	0.000992	ND	0.00101						
Total BTEX				ND	0.000992	ND	0.00101						
Inorganic Anions by EPA 300/300.1	***Extracted:***	Nov-24-15 17:00		Nov-24-15 17:00		Nov-24-15 17:00		Nov-24-15 17:00		Nov-24-15 17:00		Nov-24-15 17:00	
	Analyzed:	Nov-25-15 05:43		Nov-25-15 06:06		Nov-25-15 07:14		Nov-25-15 07:37		Nov-25-15 08:45		Nov-25-15 08:22	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1340	100	8.83	2.00	20.4	2.00	36.5	10.0	3210	200	47.9	2.00
TPH By SW8015 Mod	***Extracted:***	Nov-23-15 18:00		Nov-23-15 18:00		Nov-23-15 18:00		Nov-25-15 16:00		Nov-23-15 18:00		Nov-23-15 18:00	
	Analyzed:	Nov-24-15 09:42		Nov-24-15 23:58		Nov-25-15 00:22		Nov-25-15 18:13		Nov-25-15 00:47		Nov-25-15 01:13	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C10 Gasoline Range Hydrocarbons		ND	15.0	ND	15.0	ND	15.0	ND	15.0	ND	15.0	ND	15.0
C10-C28 Diesel Range Hydrocarbons		ND	15.0	566	15.0	387	15.0	ND	15.0	283	15.0	24.7	15.0
Total TPH		ND	15.0	566	15.0	387	15.0	ND	15.0	283	15.0	24.7	15.0

Kelsey Brooks
Project Manager

Certificate of Analysis Summary 519877

Tetra Tech- Midland, Midland, TX

Project Name: Globe Eunice Facility

Project Id: 212C-MD-00374
Contact: Ike Tavarez
Project Location: Lea Co, NM

Date Received in Lab: Fri Nov-20-15 11:18 am
Report Date: 24-MAY-16
Project Manager: Kelsey Brooks

Analysis Requested	*Lab Id:*	519877-031		519877-032		519877-033		519877-034		519877-035		519877-036	
	Field Id:	AH 19 (0-6")		AH 20 (0-6")		AH 21 (0-1')		AH 21 (1-1.5')		AH 22 (0-1')		AH 22 (1-1.5')	
	Depth:	0-6 In		0-6 In		0-1 ft		1-1.5 ft		0-1 ft		1-1.5 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Nov-19-15 00:00		Nov-19-15 00:00		Nov-19-15 00:00		Nov-19-15 00:00		Nov-19-15 00:00		Nov-19-15 00:00	
BTEX by EPA 8021B	*Extracted:*					Nov-25-15 13:00				Nov-25-15 13:00		Nov-30-15 15:00	
	Analyzed:					Nov-25-15 16:21				Nov-25-15 17:43		Nov-30-15 16:12	
	Units/RL:					mg/kg	RL			mg/kg	RL	mg/kg	RL
Benzene						ND	0.000996			ND	0.00101	ND	0.00164
Toluene						ND	0.00199			ND	0.00202	ND	0.00329
Ethylbenzene						ND	0.000996			ND	0.00101	ND	0.00164
m,p-Xylenes						ND	0.00199			ND	0.00202	ND	0.00329
o-Xylene						ND	0.000996			ND	0.00101	ND	0.00164
Total Xylenes						ND	0.000996			ND	0.00101	ND	0.00164
Total BTEX						ND	0.000996			ND	0.00101	ND	0.00164
Inorganic Anions by EPA 300/300.1	*Extracted:*	Nov-24-15 17:00		Nov-24-15 17:00		Nov-24-15 17:00		Nov-24-15 17:00		Nov-24-15 17:00		Nov-24-15 17:00	
	Analyzed:	Nov-25-15 08:00		Nov-25-15 09:30		Nov-25-15 09:53		Nov-25-15 10:16		Nov-25-15 12:55		Nov-25-15 13:18	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		14.6	2.00	36.8	2.00	15.4	10.0	727	100	8.36	2.00	7.64	2.00
TPH By SW8015 Mod	*Extracted:*	Nov-23-15 18:00		Nov-23-15 18:00		Nov-23-15 19:00		Nov-25-15 16:00		Nov-23-15 19:00		Nov-25-15 16:00	
	Analyzed:	Nov-25-15 01:40		Nov-25-15 02:05		Nov-25-15 05:50		Nov-25-15 18:44		Nov-25-15 06:15		Nov-25-15 19:14	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C10 Gasoline Range Hydrocarbons		ND	15.0	ND	15.0	ND	15.0	ND	15.0	ND	14.9	ND	15.0
C10-C28 Diesel Range Hydrocarbons		224	15.0	299	15.0	320	15.0	36.7	15.0	530	14.9	375	15.0
Total TPH		224	15.0	299	15.0	320	15.0	36.7	15.0	530	14.9	375	15.0

Kelsey Brooks
Project Manager

Certificate of Analysis Summary 519877

Tetra Tech- Midland, Midland, TX

Project Name: Globe Eunice Facility

Project Id: 212C-MD-00374
Contact: Ike Tavarez
Project Location: Lea Co, NM

Date Received in Lab: Fri Nov-20-15 11:18 am
Report Date: 24-MAY-16
Project Manager: Kelsey Brooks

Analysis Requested													
	Lab Id:	519877-037		519877-038		519877-039		519877-040					
	Field Id:	AH 23 (0-1')		AH 23 (1-1.5')		AH 23 (2-2.5')		AH 24 (0-1')					
	Depth:	0-1 ft		1-1.5 ft		2-2.5 ft		0-1 ft					
	Matrix:	SOIL		SOIL		SOIL		SOIL					
	Sampled:	Nov-19-15 00:00		Nov-19-15 00:00		Nov-19-15 00:00		Nov-19-15 00:00					
Inorganic Anions by EPA 300/300.1	***Extracted:***	Nov-24-15 17:00		Nov-24-15 17:00		Nov-24-15 17:00		Nov-24-15 17:00					
	Analyzed:	Nov-25-15 13:40		Nov-25-15 14:03		Nov-30-15 12:30		Nov-25-15 14:48					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		345	20.0	284	20.0	104	10.0	30.5	10.0				
TPH By SW8015 Mod	***Extracted:***	Nov-23-15 19:00						Nov-23-15 19:00					
	Analyzed:	Nov-24-15 16:52						Nov-24-15 17:21					
	Units/RL:	mg/kg	RL					mg/kg	RL				
C6-C10 Gasoline Range Hydrocarbons		ND	15.0					ND	15.0				
C10-C28 Diesel Range Hydrocarbons		ND	15.0					ND	15.0				
Total TPH		ND	15.0					ND	15.0				

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

Form 2 - Surrogate Recoveries

Project Name: Globe Eunice Facility

Work Orders : 519877, 519877 **Project ID:** 212C-MD-00374

Lab Batch #: 982118 **Sample:** 519877-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/24/15 03:53

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	86.0	99.6	86	70-135	
o-Terphenyl	37.1	49.8	74	70-135	

Lab Batch #: 982118 **Sample:** 519877-006 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/24/15 04:19

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.8	99.9	98	70-135	
o-Terphenyl	46.5	50.0	93	70-135	

Lab Batch #: 982118 **Sample:** 519877-007 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/24/15 04:45

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.5	99.8	95	70-135	
o-Terphenyl	45.2	49.9	91	70-135	

Lab Batch #: 982118 **Sample:** 519877-011 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/24/15 05:14

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	85.9	99.7	86	70-135	
o-Terphenyl	36.7	49.9	74	70-135	

Lab Batch #: 982118 **Sample:** 519877-015 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/24/15 05:41

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	86.3	99.9	86	70-135	
o-Terphenyl	37.1	50.0	74	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: Globe Eunice Facility

Work Orders : 519877, 519877 **Project ID:** 212C-MD-00374

Lab Batch #: 982118 **Sample:** 519877-016 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/24/15 06:09

SURROGATE RECOVERY 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	36.7	50.0	73	70-135	

Lab Batch #: 982118 **Sample:** 519877-017 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/24/15 06:38

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	83.3	99.6	84	70-135	
o-Terphenyl	36.5	49.8	73	70-135	

Lab Batch #: 982118 **Sample:** 519877-018 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/24/15 07:31

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	84.3	100	84	70-135	
o-Terphenyl	35.5	50.0	71	70-135	

Lab Batch #: 982118 **Sample:** 519877-020 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/24/15 07:57

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	80.0	99.7	80	70-135	
o-Terphenyl	34.9	49.9	70	70-135	

Lab Batch #: 982118 **Sample:** 519877-021 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/24/15 08:23

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.9	99.9	92	70-135	
o-Terphenyl	38.5	50.0	77	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: Globe Eunice Facility

Work Orders : 519877, 519877 **Project ID:** 212C-MD-00374

Lab Batch #: 982118 **Sample:** 519877-023 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/24/15 08:50

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	82.6	99.7	83	70-135	
o-Terphenyl	34.9	49.9	70	70-135	

Lab Batch #: 982118 **Sample:** 519877-024 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/24/15 09:16

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	81.3	99.6	82	70-135	
o-Terphenyl	34.9	49.8	70	70-135	

Lab Batch #: 982118 **Sample:** 519877-025 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/24/15 09:42

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	84.9	99.9	85	70-135	
o-Terphenyl	36.1	50.0	72	70-135	

Lab Batch #: 982123 **Sample:** 519877-037 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/24/15 16:52

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	82.0	99.9	82	70-135	
o-Terphenyl	37.0	50.0	74	70-135	

Lab Batch #: 982123 **Sample:** 519877-040 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/24/15 17:21

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	82.9	99.9	83	70-135	
o-Terphenyl	38.4	50.0	77	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: Globe Eunice Facility

Work Orders : 519877, 519877 **Project ID:** 212C-MD-00374

Lab Batch #: 982118 **Sample:** 519877-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/24/15 23:32

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	86.3	99.9	86	70-135	
o-Terphenyl	36.6	50.0	73	70-135	

Lab Batch #: 982118 **Sample:** 519877-026 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/24/15 23:58

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	88.1	99.7	88	70-135	
o-Terphenyl	36.1	49.9	72	70-135	

Lab Batch #: 982118 **Sample:** 519877-027 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/25/15 00:22

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	83.0	99.9	83	70-135	
o-Terphenyl	35.0	50.0	70	70-135	

Lab Batch #: 982118 **Sample:** 519877-029 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/25/15 00:47

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.5	100	97	70-135	
o-Terphenyl	39.8	50.0	80	70-135	

Lab Batch #: 982118 **Sample:** 519877-030 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/25/15 01:13

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	84.4	100	84	70-135	
o-Terphenyl	35.5	50.0	71	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: Globe Eunice Facility

Work Orders : 519877, 519877 **Project ID:** 212C-MD-00374

Lab Batch #: 982118 **Sample:** 519877-031 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/25/15 01:40

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	88.9	99.7	89	70-135	
o-Terphenyl	36.7	49.9	74	70-135	

Lab Batch #: 982118 **Sample:** 519877-032 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/25/15 02:05

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.6	100	97	70-135	
o-Terphenyl	39.4	50.0	79	70-135	

Lab Batch #: 982123 **Sample:** 519877-033 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/25/15 05:50

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.1	99.9	92	70-135	
o-Terphenyl	36.3	50.0	73	70-135	

Lab Batch #: 982123 **Sample:** 519877-035 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/25/15 06:15

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.5	99.6	97	70-135	
o-Terphenyl	37.5	49.8	75	70-135	

Lab Batch #: 982346 **Sample:** 519877-026 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/25/15 14:40

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0313	0.0300	104	80-120	
4-Bromofluorobenzene	0.0266	0.0300	89	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: Globe Eunice Facility

Work Orders : 519877, 519877 **Project ID:** 212C-MD-00374

Lab Batch #: 982346 **Sample:** 519877-027 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/25/15 14:59

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0323	0.0300	108	80-120	
4-Bromofluorobenzene	0.0264	0.0300	88	80-120	

Lab Batch #: 982346 **Sample:** 519877-033 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/25/15 16:21

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0282	0.0300	94	80-120	
4-Bromofluorobenzene	0.0277	0.0300	92	80-120	

Lab Batch #: 982346 **Sample:** 519877-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/25/15 16:38

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0299	0.0300	100	80-120	
4-Bromofluorobenzene	0.0262	0.0300	87	80-120	

Lab Batch #: 982345 **Sample:** 519877-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/25/15 16:41

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.2	99.9	89	70-135	
o-Terphenyl	41.5	50.0	83	70-135	

Lab Batch #: 982346 **Sample:** 519877-007 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/25/15 17:11

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0243	0.0300	81	80-120	
4-Bromofluorobenzene	0.0258	0.0300	86	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: Globe Eunice Facility

Work Orders : 519877, 519877 **Project ID:** 212C-MD-00374

Lab Batch #: 982345 **Sample:** 519877-008 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/25/15 17:13

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.8	99.8	90	70-135	
o-Terphenyl	42.5	49.9	85	70-135	

Lab Batch #: 982345 **Sample:** 519877-009 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/25/15 17:43

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	88.1	99.9	88	70-135	
o-Terphenyl	41.3	50.0	83	70-135	

Lab Batch #: 982346 **Sample:** 519877-035 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/25/15 17:43

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0259	0.0300	86	80-120	
4-Bromofluorobenzene	0.0240	0.0300	80	80-120	

Lab Batch #: 982345 **Sample:** 519877-028 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/25/15 18:13

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	87.3	100	87	70-135	
o-Terphenyl	39.9	50.0	80	70-135	

Lab Batch #: 982345 **Sample:** 519877-034 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/25/15 18:44

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	85.5	99.7	86	70-135	
o-Terphenyl	39.9	49.9	80	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: Globe Eunice Facility

Work Orders : 519877, 519877 **Project ID:** 212C-MD-00374

Lab Batch #: 982345 **Sample:** 519877-036 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/25/15 19:14

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	103	99.8	103	70-135	
o-Terphenyl	46.7	49.9	94	70-135	

Lab Batch #: 982346 **Sample:** 519877-017 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/30/15 11:13

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0307	0.0300	102	80-120	
4-Bromofluorobenzene	0.0245	0.0300	82	80-120	

Lab Batch #: 982346 **Sample:** 519877-006 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/30/15 11:30

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0277	0.0300	92	80-120	
4-Bromofluorobenzene	0.0254	0.0300	85	80-120	

Lab Batch #: 982345 **Sample:** 519877-010 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/30/15 12:30

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.0	99.9	92	70-135	
o-Terphenyl	42.8	50.0	86	70-135	

Lab Batch #: 982385 **Sample:** 519877-009 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/30/15 15:23

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0328	0.0300	109	80-120	
4-Bromofluorobenzene	0.0293	0.0300	98	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: Globe Eunice Facility

Work Orders : 519877, 519877 **Project ID:** 212C-MD-00374

Lab Batch #: 982385 **Sample:** 519877-036 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/30/15 16:12

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0282	0.0300	94	80-120	
4-Bromofluorobenzene	0.0241	0.0300	80	80-120	

Lab Batch #: 982118 **Sample:** 701340-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/24/15 02:05

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	98.7	100	99	70-135	
o-Terphenyl	42.7	50.0	85	70-135	

Lab Batch #: 982123 **Sample:** 701346-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/24/15 13:49

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	100	100	100	70-135	
o-Terphenyl	42.4	50.0	85	70-135	

Lab Batch #: 982345 **Sample:** 701491-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/24/15 23:05

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	135	100	135	70-135	
o-Terphenyl	58.5	50.0	117	70-135	

Lab Batch #: 982346 **Sample:** 701407-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/25/15 14:24

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0335	0.0300	112	80-120	
4-Bromofluorobenzene	0.0302	0.0300	101	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: Globe Eunice Facility

Work Orders : 519877, 519877 **Project ID:** 212C-MD-00374

Lab Batch #: 982385 **Sample:** 701508-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/30/15 10:40

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0317	0.0300	106	80-120	
4-Bromofluorobenzene	0.0306	0.0300	102	80-120	

Lab Batch #: 982118 **Sample:** 701340-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/24/15 02:31

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	115	100	115	70-135	
o-Terphenyl	55.1	50.0	110	70-135	

Lab Batch #: 982123 **Sample:** 701346-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/24/15 14:13

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	117	100	117	70-135	
o-Terphenyl	55.3	50.0	111	70-135	

Lab Batch #: 982345 **Sample:** 701491-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/25/15 08:24

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	99.8	100	100	70-135	
o-Terphenyl	45.0	50.0	90	70-135	

Lab Batch #: 982346 **Sample:** 701407-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/25/15 13:34

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0360	0.0300	120	80-120	
4-Bromofluorobenzene	0.0339	0.0300	113	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: Globe Eunice Facility

Work Orders : 519877, 519877 **Project ID:** 212C-MD-00374

Lab Batch #: 982385 **Sample:** 701508-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/30/15 09:49

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0294	0.0300	98	80-120	
4-Bromofluorobenzene	0.0300	0.0300	100	80-120	

Lab Batch #: 982118 **Sample:** 701340-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/24/15 02:57

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	110	100	110	70-135	
o-Terphenyl	51.2	50.0	102	70-135	

Lab Batch #: 982123 **Sample:** 701346-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/24/15 14:37

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	103	100	103	70-135	
o-Terphenyl	51.1	50.0	102	70-135	

Lab Batch #: 982345 **Sample:** 701491-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/25/15 08:52

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.6	100	97	70-135	
o-Terphenyl	44.8	50.0	90	70-135	

Lab Batch #: 982346 **Sample:** 701407-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/25/15 13:51

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0270	0.0300	90	80-120	
4-Bromofluorobenzene	0.0259	0.0300	86	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: Globe Eunice Facility

Work Orders : 519877, 519877 **Project ID:** 212C-MD-00374

Lab Batch #: 982385 **Sample:** 701508-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/30/15 10:06

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0254	0.0300	85	80-120	
4-Bromofluorobenzene	0.0283	0.0300	94	80-120	

Lab Batch #: 982118 **Sample:** 519877-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/25/15 02:29

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	90.0	100	90	70-135	
o-Terphenyl	43.1	50.0	86	70-135	

Lab Batch #: 982123 **Sample:** 519929-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/25/15 06:41

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.7	100	98	70-135	
o-Terphenyl	45.1	50.0	90	70-135	

Lab Batch #: 982346 **Sample:** 519877-026 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/25/15 18:00

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0347	0.0300	116	80-120	
4-Bromofluorobenzene	0.0325	0.0300	108	80-120	

Lab Batch #: 982385 **Sample:** 519877-009 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/30/15 16:29

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0316	0.0300	105	80-120	
4-Bromofluorobenzene	0.0262	0.0300	87	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: Globe Eunice Facility

Work Orders : 519877, 519877 **Project ID:** 212C-MD-00374

Lab Batch #: 982118 **Sample:** 519877-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/25/15 02:53

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	84.4	100	84	70-135	
o-Terphenyl	42.6	50.0	85	70-135	

Lab Batch #: 982123 **Sample:** 519929-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/25/15 07:07

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	98.9	99.9	99	70-135	
o-Terphenyl	44.6	50.0	89	70-135	

Lab Batch #: 982346 **Sample:** 519877-026 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/25/15 19:22

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0312	0.0300	104	80-120	
4-Bromofluorobenzene	0.0289	0.0300	96	80-120	

Lab Batch #: 982385 **Sample:** 519877-009 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/30/15 16:45

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0276	0.0300	92	80-120	
4-Bromofluorobenzene	0.0291	0.0300	97	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: Globe Eunice Facility

Work Order #: 519877, 519877 **Project ID:** 212C-MD-00374

Analyst: SYG **Date Prepared:** 11/25/2015 **Date Analyzed:** 11/25/2015

Lab Batch ID: 982346 **Sample:** 701407-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00100	0.100	0.0807	81	0.100	0.0839	84	4	70-130	35	
Toluene	<0.00200	0.100	0.0812	81	0.100	0.0858	86	6	70-130	35	
Ethylbenzene	<0.00100	0.100	0.0979	98	0.100	0.0924	92	6	71-129	35	
m,p-Xylenes	<0.00200	0.200	0.200	100	0.200	0.190	95	5	70-135	35	
o-Xylene	<0.00100	0.100	0.0986	99	0.100	0.0898	90	9	71-133	35	

Analyst: SYG **Date Prepared:** 11/30/2015 **Date Analyzed:** 11/30/2015

Lab Batch ID: 982385 **Sample:** 701508-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00100	0.100	0.0978	98	0.100	0.0919	92	6	70-130	35	
Toluene	<0.00200	0.100	0.102	102	0.100	0.0953	95	7	70-130	35	
Ethylbenzene	<0.00100	0.100	0.107	107	0.100	0.101	101	6	71-129	35	
m,p-Xylenes	<0.00200	0.200	0.223	112	0.200	0.208	104	7	70-135	35	
o-Xylene	<0.00100	0.100	0.103	103	0.100	0.0983	98	5	71-133	35	

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

BS / BSD Recoveries

Project Name: Globe Eunice Facility

Work Order #: 519877, 519877 **Project ID:** 212C-MD-00374

Analyst: MNR **Date Prepared:** 11/24/2015 **Date Analyzed:** 11/24/2015

Lab Batch ID: 982224 **Sample:** 701316-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<2.00	50.0	48.9	98	50.0	49.0	98	0	90-110	20	

Analyst: MNR **Date Prepared:** 11/24/2015 **Date Analyzed:** 11/25/2015

Lab Batch ID: 982303 **Sample:** 701317-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<2.00	50.0	48.7	97	50.0	46.5	93	5	90-110	20	

Analyst: PJB **Date Prepared:** 11/23/2015 **Date Analyzed:** 11/24/2015

Lab Batch ID: 982118 **Sample:** 701340-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C10 Gasoline Range Hydrocarbons	<15.0	1000	1120	112	1000	1080	108	4	70-135	35	
C10-C28 Diesel Range Hydrocarbons	<15.0	1000	1180	118	1000	1070	107	10	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

BS / BSD Recoveries

Project Name: Globe Eunice Facility

Work Order #: 519877, 519877 **Project ID:** 212C-MD-00374

Analyst: PJB **Date Prepared:** 11/23/2015 **Date Analyzed:** 11/24/2015

Lab Batch ID: 982123 **Sample:** 701346-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C10 Gasoline Range Hydrocarbons	<15.0	1000	1110	111	1000	1110	111	0	70-135	35	
C10-C28 Diesel Range Hydrocarbons	<15.0	1000	1160	116	1000	1080	108	7	70-135	35	

Analyst: PJB **Date Prepared:** 11/24/2015 **Date Analyzed:** 11/25/2015

Lab Batch ID: 982345 **Sample:** 701491-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C10 Gasoline Range Hydrocarbons	<15.0	1000	1060	106	1000	1080	108	2	70-135	35	
C10-C28 Diesel Range Hydrocarbons	<15.0	1000	966	97	1000	1040	104	7	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: Globe Eunice Facility

Work Order #: 519877

Lab Batch #: 982224 **Project ID:** 212C-MD-00374

Date Analyzed: 11/24/2015 **Date Prepared:** 11/24/2015 **Analyst:** MNR

QC- Sample ID: 519877-001 S **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300 **Analytes**	**Parent Sample Result [A]**	**Spike Added [B]**	**Spiked Sample Result [C]**	**%R [D]**	**Control Limits %R**	**Flag**
Chloride	320	500	807	97	80-120	

Lab Batch #: 982224

Date Analyzed: 11/24/2015 **Date Prepared:** 11/24/2015 **Analyst:** MNR

QC- Sample ID: 519877-011 S **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300 **Analytes**	**Parent Sample Result [A]**	**Spike Added [B]**	**Spiked Sample Result [C]**	**%R [D]**	**Control Limits %R**	**Flag**
Chloride	110	250	344	94	80-120	

Lab Batch #: 982303

Date Analyzed: 11/25/2015 **Date Prepared:** 11/24/2015 **Analyst:** MNR

QC- Sample ID: 519877-021 S **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300 **Analytes**	**Parent Sample Result [A]**	**Spike Added [B]**	**Spiked Sample Result [C]**	**%R [D]**	**Control Limits %R**	**Flag**
Chloride	64.4	50.0	108	87	80-120	

Lab Batch #: 982303

Date Analyzed: 11/25/2015 **Date Prepared:** 11/24/2015 **Analyst:** MNR

QC- Sample ID: 519877-029 S **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300 **Analytes**	**Parent Sample Result [A]**	**Spike Added [B]**	**Spiked Sample Result [C]**	**%R [D]**	**Control Limits %R**	**Flag**
Chloride	3210	5000	8340	103	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: Globe Eunice Facility

Work Order # : 519877 **Project ID:** 212C-MD-00374

Lab Batch ID: 982346 **QC- Sample ID:** 519877-026 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 11/25/2015 **Date Prepared:** 11/25/2015 **Analyst:** SYG

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY 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	<0.000996	0.0996	0.0828	83	0.0994	0.0813	82	2	70-130	35	
Toluene	<0.00199	0.0996	0.0599	60	0.0994	0.0475	48	23	70-130	35	X
Ethylbenzene	<0.000996	0.0996	0.0534	54	0.0994	0.0358	36	39	71-129	35	XF
m,p-Xylenes	<0.00199	0.199	0.101	51	0.199	0.0709	36	35	70-135	35	X
o-Xylene	<0.000996	0.0996	0.0496	50	0.0994	0.0362	36	31	71-133	35	X

Lab Batch ID: 982385 **QC- Sample ID:** 519877-009 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 11/30/2015 **Date Prepared:** 11/30/2015 **Analyst:** SYG

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY 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	<0.00100	0.100	0.0915	92	0.100	0.0943	94	3	70-130	35	
Toluene	<0.00201	0.100	0.0891	89	0.100	0.0896	90	1	70-130	35	
Ethylbenzene	<0.00100	0.100	0.0890	89	0.100	0.0900	90	1	71-129	35	
m,p-Xylenes	<0.00201	0.201	0.182	91	0.201	0.187	93	3	70-135	35	
o-Xylene	<0.00100	0.100	0.0858	86	0.100	0.0865	87	1	71-133	35	

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

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

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.

Form 3 - MS / MSD Recoveries

Project Name: Globe Eunice Facility

Work Order # : 519877 **Project ID:** 212C-MD-00374

Lab Batch ID: 982118 **QC- Sample ID:** 519877-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 11/25/2015 **Date Prepared:** 11/23/2015 **Analyst:** PJB

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C10 Gasoline Range Hydrocarbons	<15.0	1000	1020	102	1000	1010	101	1	70-135	35	
C10-C28 Diesel Range Hydrocarbons	350	1000	1310	96	1000	1280	93	2	70-135	35	

Lab Batch ID: 982123 **QC- Sample ID:** 519929-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 11/25/2015 **Date Prepared:** 11/23/2015 **Analyst:** PJB

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C10 Gasoline Range Hydrocarbons	<17.0	1140	1230	108	1130	1210	107	2	70-135	35	
C10-C28 Diesel Range Hydrocarbons	1070	1140	1860	69	1130	1830	67	2	70-135	35	X

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

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

Relative 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 Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Analysis Request of Chain of Custody Record

PAGE: 1 OF: 2

TETRA TECH
1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

519877

CLIENT NAME: Globe Energy Services
SITE MANAGER: Ike Tavarez
PROJECT NO.: 212c-MD-00374
PROJECT NAME: Globe Eunice Facility Lee Co, TX

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8021B	TPH 8015 MOD. (Ext. to C35)	TPH TX1005	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
	11-19-15		S		X	AH 1 (0-1')	1	N			X			X												X				
	11-19-15					AH 1 (1-1.5')	1	N			X															X				
	11-19-15					AH 1 (2-2.5)	1	N			X															X				
						AH 2 (0-1')	1	N			X			X												X				
						AH 2 (1-1.5)	1	N			X															X				
						AH 3 (0-1')	1	N			X			X												X				
						AH 4 (0-1')	1	N			X			X												X				
						AH 4 (1-1.5)	1	N			X															X				
						AH 4 (2-2.5)	1	N			X															X				
						AH 4 (2.5-3')	1	N			X															X				

RELINQUISHED BY: (Signature) — Date: 11-20-15 Time: 11:15
RECEIVED BY: (Signature) — Date: 11/20/15 Time: 11:15
SAMPLED BY: (Print & Initial) — Date: 11-19-15 Time:

RELINQUISHED BY: (Signature) — Date: Time:
RECEIVED BY: (Signature) — Date: Time:
SAMPLE SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS
AIRBILL #:
OTHER:

RELINQUISHED BY: (Signature) — Date: Time:
RECEIVED BY: (Signature) — Date: Time:
TETRA TECH CONTACT PERSON: Ike Tavarez
Results by:

RECEIVING LABORATORY: ~~Trace~~ Xenco
ADDRESS:
CITY: Midland STATE: TX ZIP:
CONTACT: PHONE: DATE: TIME:
RECEIVED BY: (Signature)
RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: -.5°C
REMARKS: Run deeper samples if TPH exceeds 100 mg/kg. (All AH's)

Please fill out all copies - Laboratory retains Yellow copy - Return Orginal copy to Tetra Tech - Project Manager retains Pink copy - Accounting receives Gold copy.

Run (10) BTEX ~~and~~ on the highest TPH results (concentration). (All AH's)

Analysis Request of Chain of Custody Record

TETRA TECH
1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

519877

CLIENT NAME: Globe Energy Services
SITE MANAGER: Ike Tavarez
PROJECT NO.: 212c-MD-00374
PROJECT NAME: Globe Eunice Facility Lea County, TX

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8021B	TPH 8015 MOD. TX1005 (Ext. to C35)	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
	11-19-15		S		X	AH 5 (0-1)	1	N			X			X											X				
						AH 5 (1-1.5)	1	N			X														X				
						AH 5 (2-2.5)	1	N			X														X				
						AH 5 (2.5-3)	1	N			X														X				
						AH 6 (0-1)	1	N			X			X											X				
						AH 7 (0-1)	1	N			X			X											X				
						AH 8 (0-1)	1	N			X			X											X				
						AH 9 (0-1)	1	N			X			X											X				
						AH 9 (1-1.5)	1	N			X														X				
						AH 10 (0-1)	1	N			X			X											X				

RELINQUISHED BY: (Signature) — Date: 11-19-15 Time: 11-19-15
RECEIVED BY: (Signature) — Date: 11/20 Time: 11:18
SAMPLED BY: (Print & Initial) — Date: 11-19-15 Time:

RELINQUISHED BY: (Signature) — Date: Time:
RECEIVED BY: (Signature) — Date: Time:
SAMPLE SHIPPED BY: (Circle) FEDEX HAND DELIVERED BUS UPS — AIRBILL #: OTHER:

RELINQUISHED BY: (Signature) — Date: Time:
RECEIVED BY: (Signature) — Date: Time:
TETRA TECH CONTACT PERSON: Ike Tavarez — Results by:

RECEIVING LABORATORY: Xenco
ADDRESS:
CITY: Midland STATE: TX ZIP:
CONTACT: PHONE: DATE: TIME:
RECEIVED BY: (Signature)
RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: -.5°C
REMARKS:

Please fill out all copies - Laboratory retains Yellow copy - Return Orginal copy to Tetra Tech - Project Manager retains Pink copy - Accounting receives Gold copy.

Analysis Request of Chain of Custody Record

TETRA TECH
1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

519877

CLIENT NAME: Globe Energy Services

SITE MANAGER: Ike Tavarez

PROJECT NO.: 212c-MD-00374

PROJECT NAME: Globe Eunice Facility Lea Co, NM

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8021B	TPH 8015 MOD. TX1005 (Ext. to C35)	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
	11-14-13		S		X	AH 11 (0-1)	1	N			X			X											X				
						AH 11 (1-1.5)	1	N			X														X				
						AH 12 (0-1)	1	N			X			X											X				
						AH 13 (0-1)	1	N			X			X											X				
						AH 14 (0-1)	1	N			X			X											X				
						AH 15 (0-6")	1	N			X			X											X				
						AH 16 (0-1)	1	N			X			X											X				
						AH 16 (1-1.5)	1	N			X														X				
						AH 17 (0-1)	1	N			X			X											X				
						AH 18 (0-6")	1				X			X											X				

RELINQUISHED BY: (Signature) — Date: 11-14-13 Time: 11-14-13

RECEIVED BY: (Signature) — Date: 11/20 Time: 11:16

SAMPLED BY: (Print & Initial) — Date: 11-14-13 Time:

RELINQUISHED BY: (Signature) — Date: Time:

RECEIVED BY: (Signature) — Date: Time:

SAMPLE SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS

AIRBILL #:

OTHER:

RELINQUISHED BY: (Signature) — Date: Time:

RECEIVED BY: (Signature) — Date: Time:

RECEIVING LABORATORY: Xenco

ADDRESS:

CITY: Midland STATE: TX ZIP:

CONTACT: PHONE: DATE: TIME:

RECEIVED BY: (Signature)

TETRA TECH CONTACT PERSON: Ike Tavarez

Results by:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: -.5°C

REMARKS:

Please fill out all copies - Laboratory retains Yellow copy - Return Orginal copy to Tetra Tech - Project Manager retains Pink copy - Accounting receives Gold copy.

Analysis Request of Chain of Custody Record

TETRA TECH
1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

519877

CLIENT NAME: Globe Energy Services
SITE MANAGER: Ike Tavarez
PROJECT NO.: 212c-mp-00374
PROJECT NAME: Globe Eunice Facility Lea Co, TX

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	(BTEX 8021B)	TPH 8015 MOD. TX1005 (Ext. to C35)	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
	11-14-13		S		X	AH 19 (0-6")	1	N			X			X											X				
						AH 20 (0-6")	1	N			X			X											X				
						AH 21 (0-1)	1	N			X			X											X				
						AH 21 (1-1.5)	1	N			X														X				
						AH 22 (0-1)	1	N			X			X											X				
						AH 22 (1-1.5)	1	N			X														X				
						AH 23 (0-1)	1	N			X			X											X				
						AH 23 (1-1.5)	1	N			X														X				
						AH 23 (2-2.5)	1	N			X														X				
						AH 24 (0-1)	1	N			X			X											X				

RELINQUISHED BY: (Signature) — Date: 11-14-13 Time: 1:18
RECEIVED BY: (Signature) — Date: 11/14 Time: 11:18
SAMPLED BY: (Print & Initial) — Date: 11/14/13 Time:

RELINQUISHED BY: (Signature) — Date: Time:
RECEIVED BY: (Signature) — Date: Time:
SAMPLE SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS
AIRBILL #:

RELINQUISHED BY: (Signature) — Date: Time:
RECEIVED BY: (Signature) — Date: Time:
OTHER:

RECEIVING LABORATORY: Trace Xenco
ADDRESS:
CITY: Midland STATE: TX ZIP:
CONTACT: PHONE:
RECEIVED BY: (Signature)
DATE: TIME:

TETRA TECH CONTACT PERSON: Ike Tavarez

Results by:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: -.5°C

REMARKS:

Please fill out all copies - Laboratory retains Yellow copy - Return Orginal copy to Tetra Tech - Project Manager retains Pink copy - Accounting receives Gold copy.

XENCO Laboratories
Prelogin/Nonconformance Report- Sample Log-In

Client: Tetra Tech- Midland

Date/ Time Received: 11/20/2015 11:18:00 AM

Work Order #: 519877

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

Temperature Measuring device used :

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	-.5
#2 *Shipping container in good condition?	**Yes**
#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?	**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)?	**No**
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	**N/A**
#21 <2 for all samples preserved with HNO3,HCL, H2SO4? Except for samples for the analysis of HEM or HEM-SGT which are verified by the analysts.	**N/A**
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+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: Carley Owens Date: 11/20/2015

Carley Owens

Checklist reviewed by: Kelsey Brooks Date: 11/20/2015

Kelsey Brooks

Analytical Report 523498

for

Tetra Tech- Midland

Project Manager: Ike Tavarez

Globe Eunice Yard

212C-MD-00374

24-MAY-16

Collected By: Client

1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-15-19), Arizona (AZ0765), Florida (E871002), Louisiana (03054)
Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400)
Xenco-San Antonio: Texas (T104704534-15-1)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)
Texas (T104704477), Louisiana (04176), USDA (P330-07-00105)

Xenco-Lakeland: Florida (E84098)

24-MAY-16

Project Manager: **Ike Tavarez**
Tetra Tech- Midland
4000 N. Big Spring Suite 401
Midland, TX 79705

Reference: XENCO Report No(s): **523498**
Globe Eunice Yard
Project Address: Lea Co, NM

Ike Tavarez:

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) 523498. 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. 523498 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

Sample Cross Reference 523498

Tetra Tech- Midland, Midland, TX

Globe Eunice Yard

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
AH-1H 0-1	S	01-21-16 00:00	0 - 1 ft	523498-001
AH-2H 0-1	S	01-21-16 00:00	0 - 1 ft	523498-002
AH-2H 1-1.5	S	01-21-16 00:00	1 - 1.5 ft	523498-003
AH-3H 0-1	S	01-21-16 00:00	0 - 1 ft	523498-004
AH-4H 0-1	S	01-21-16 00:00	0 - 1 ft	523498-006
AH-5H 0-1	S	01-21-16 00:00	0 - 1 ft	523498-007
AH-5H 1-1.5	S	01-21-16 00:00	1 - 1.5 ft	523498-008
AH-5H 2-2.5	S	01-21-16 00:00	2 - 2.5 ft	523498-009
AH-6H 0-1	S	01-21-16 00:00	0 - 1 ft	523498-010
AH-6H 1-1.5	S	01-21-16 00:00	1 - 1.5 ft	523498-011
AH-6H 2-2.5	S	01-21-16 00:00	2 - 2.5 ft	523498-012
AH-7H 0-1	S	01-21-16 00:00	0 - 1 ft	523498-013
AH-7H 1-1.5	S	01-21-16 00:00	1 - 1.5 ft	523498-014
AH-8H 0-1	S	01-21-16 00:00	0 - 1 ft	523498-015
AH-8H 1-1.5	S	01-21-16 00:00	1 - 1.5 ft	523498-016
AH-9H 0-1	S	01-21-16 00:00	0 - 1 ft	523498-017
AH-9H 1-1.5	S	01-21-16 00:00	1 - 1.5 ft	523498-018
AH-10H 0-1	S	01-21-16 00:00	0 - 1 ft	523498-019
AH-10H 1-1.5	S	01-21-16 00:00	1 - 1.5 ft	523498-020
AH-11H 0-1	S	01-21-16 00:00	0 - 1 ft	523498-021
AH-12H 0-1	S	01-21-16 00:00	0 - 1 ft	523498-022
AH-13H 0-6"	S	01-21-16 00:00	0 - 6 In	523498-023
AH-14H 0-6"	S	01-21-16 00:00	0 - 6 In	523498-024
AH-15H 0-1	S	01-21-16 00:00	0 - 1 ft	523498-025
AH-15H 1-1.5	S	01-21-16 00:00	1 - 1.5 ft	523498-026
AH-16H 0-6"	S	01-21-16 00:00	0 - 6 In	523498-027
AH-3H 1-1.5	S	01-21-16 00:00	1 - 1.5 ft	Not Analyzed

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Certificate of Analysis Summary 523498

Tetra Tech- Midland, Midland, TX

Project Name: Globe Eunice Yard

Project Id: 212C-MD-00374
Contact: Ike Tavarez
Project Location: Lea Co, NM

Date Received in Lab: Fri Jan-22-16 02:05 pm
Report Date: 24-MAY-16
Project Manager: Kelsey Brooks

Analysis Requested													
	Lab Id:	523498-001		523498-002		523498-003		523498-004		523498-006		523498-007	
	Field Id:	AH-1H 0-1		AH-2H 0-1		AH-2H 1-1.5		AH-3H 0-1		AH-4H 0-1		AH-5H 0-1	
	Depth:	0-1 ft		0-1 ft		1-1.5 ft		0-1 ft		0-1 ft		0-1 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jan-21-16 00:00		Jan-21-16 00:00		Jan-21-16 00:00		Jan-21-16 00:00		Jan-21-16 00:00		Jan-21-16 00:00	
Inorganic Anions by EPA 300/300.1	***Extracted:***	Jan-28-16 11:00		Jan-28-16 11:00		Jan-28-16 11:00				Jan-28-16 11:00		Jan-28-16 11:00	
	Analyzed:	Jan-28-16 17:05		Jan-28-16 17:41		Jan-28-16 17:59				Jan-28-16 18:18		Jan-28-16 18:36	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL			mg/kg	RL	mg/kg	RL
Chloride		2.33	2.00	ND	2.00	2.93	2.00			531	10.0	ND	2.00
TPH By SW8015 Mod	***Extracted:***							Jan-27-16 11:00		Jan-27-16 11:00		Jan-27-16 11:00	
	Analyzed:							Jan-28-16 13:57		Jan-28-16 14:25		Jan-28-16 14:53	
	Units/RL:							mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C10 Gasoline Range Hydrocarbons								ND	14.9	ND	15.0	ND	15.0
C10-C28 Diesel Range Hydrocarbons								ND	14.9	ND	15.0	ND	15.0
Total TPH								ND	14.9	ND	15.0	ND	15.0

Kelsey Brooks
Project Manager

Certificate of Analysis Summary 523498

Tetra Tech- Midland, Midland, TX

Project Name: Globe Eunice Yard

Project Id: 212C-MD-00374
Contact: Ike Tavarez
Project Location: Lea Co, NM

Date Received in Lab: Fri Jan-22-16 02:05 pm
Report Date: 24-MAY-16
Project Manager: Kelsey Brooks

Analysis Requested													
	Lab Id:	523498-008		523498-009		523498-010		523498-011		523498-012		523498-013	
	Field Id:	AH-5H 1-1.5		AH-5H 2-2.5		AH-6H 0-1		AH-6H 1-1.5		AH-6H 2-2.5		AH-7H 0-1	
	Depth:	1-1.5 ft		2-2.5 ft		0-1 ft		1-1.5 ft		2-2.5 ft		0-1 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jan-21-16 00:00		Jan-21-16 00:00		Jan-21-16 00:00		Jan-21-16 00:00		Jan-21-16 00:00		Jan-21-16 00:00	
Inorganic Anions by EPA 300/300.1	***Extracted:***	Jan-28-16 11:00		Jan-28-16 11:00		Jan-28-16 11:00		Jan-28-16 11:00		Jan-28-16 11:00		Jan-28-16 11:00	
	Analyzed:	Jan-28-16 18:54		Jan-29-16 16:41		Jan-28-16 20:07		Jan-28-16 20:25		Jan-29-16 17:00		Jan-28-16 21:02	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		3.45	2.00	316	10.0	2.80	2.00	ND	2.00	4.00	2.00	30.1	2.00

Kelsey Brooks
Project Manager

Certificate of Analysis Summary 523498

Tetra Tech- Midland, Midland, TX

Project Name: Globe Eunice Yard

Project Id: 212C-MD-00374
Contact: Ike Tavarez
Project Location: Lea Co, NM

Date Received in Lab: Fri Jan-22-16 02:05 pm
Report Date: 24-MAY-16
Project Manager: Kelsey Brooks

Analysis Requested													
	Lab Id:	523498-014		523498-015		523498-016		523498-017		523498-018		523498-019	
	Field Id:	AH-7H 1-1.5		AH-8H 0-1		AH-8H 1-1.5		AH-9H 0-1		AH-9H 1-1.5		AH-10H 0-1	
	Depth:	1-1.5 ft		0-1 ft		1-1.5 ft		0-1 ft		1-1.5 ft		0-1 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jan-21-16 00:00		Jan-21-16 00:00		Jan-21-16 00:00		Jan-21-16 00:00		Jan-21-16 00:00		Jan-21-16 00:00	
Inorganic Anions by EPA 300/300.1	***Extracted:***	Jan-28-16 11:00		Jan-28-16 11:00		Jan-28-16 11:00		Jan-28-16 11:00		Jan-28-16 11:00		Jan-28-16 11:00	
	Analyzed:	Jan-28-16 21:38		Jan-28-16 21:56		Jan-28-16 22:14		Jan-28-16 22:33		Jan-29-16 17:36		Jan-28-16 23:46	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		216	10.0	3.58	2.00	8.93	2.00	5.52	2.00	9.80	2.00	11.3	2.00

Kelsey Brooks
Project Manager

Certificate of Analysis Summary 523498

Tetra Tech- Midland, Midland, TX

Project Name: Globe Eunice Yard

Project Id: 212C-MD-00374
Contact: Ike Tavarez
Project Location: Lea Co, NM

Date Received in Lab: Fri Jan-22-16 02:05 pm
Report Date: 24-MAY-16
Project Manager: Kelsey Brooks

Analysis Requested													
	Lab Id:	523498-020		523498-021		523498-022		523498-023		523498-024		523498-025	
	Field Id:	AH-10H 1-1.5		AH-11H 0-1		AH-12H 0-1		AH-13H 0-6"		AH-14H 0-6"		AH-15H 0-1	
	Depth:	1-1.5 ft		0-1 ft		0-1 ft		0-6 In		0-6 In		0-1 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jan-21-16 00:00		Jan-21-16 00:00		Jan-21-16 00:00		Jan-21-16 00:00		Jan-21-16 00:00		Jan-21-16 00:00	
Inorganic Anions by EPA 300/300.1	***Extracted:***	Jan-28-16 11:00		Jan-28-16 11:00				Jan-28-16 11:00		Jan-28-16 10:00		Jan-28-16 10:00	
	Analyzed:	Jan-29-16 00:04		Jan-29-16 00:22				Jan-29-16 00:40		Jan-29-16 02:29		Jan-29-16 03:06	
	Units/RL:	mg/kg	RL	mg/kg	RL			mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		18.9	2.00	3.34	2.00			4.31	2.00	18.8	2.00	ND	2.00
TPH By SW8015 Mod	***Extracted:***					Jan-27-16 11:00		Jan-27-16 11:00		Jan-27-16 11:00		Jan-27-16 11:00	
	Analyzed:					Jan-28-16 15:19		Jan-28-16 15:47		Jan-28-16 16:41		Jan-28-16 17:10	
	Units/RL:					mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C10 Gasoline Range Hydrocarbons						ND	14.9	ND	15.0	15.0	15.0	ND	15.0
C10-C28 Diesel Range Hydrocarbons						ND	14.9	ND	15.0	ND	15.0	ND	15.0
Total TPH						ND	14.9	ND	15.0	15.0	15.0	ND	15.0

Kelsey Brooks
Project Manager

Certificate of Analysis Summary 523498

Tetra Tech- Midland, Midland, TX

Project Name: Globe Eunice Yard

Project Id: 212C-MD-00374
Contact: Ike Tavarez
Project Location: Lea Co, NM

Date Received in Lab: Fri Jan-22-16 02:05 pm
Report Date: 24-MAY-16
Project Manager: Kelsey Brooks

Analysis Requested													
	Lab Id:	523498-026		523498-027									
	Field Id:	AH-15H 1-1.5		AH-16H 0-6"									
	Depth:	1-1.5 ft		0-6 In									
	Matrix:	SOIL		SOIL									
	Sampled:	Jan-21-16 00:00		Jan-21-16 00:00									
Inorganic Anions by EPA 300/300.1	***Extracted:***	Jan-28-16 10:00		Jan-28-16 10:00									
	Analyzed:	Jan-29-16 03:24		Jan-29-16 03:42									
	Units/RL:	mg/kg	RL	mg/kg	RL								
Chloride		ND	2.00	2.62	2.00								
TPH By SW8015 Mod	***Extracted:***			Jan-27-16 11:00									
	Analyzed:			Jan-28-16 17:39									
	Units/RL:			mg/kg	RL								
C6-C10 Gasoline Range Hydrocarbons				23.4	15.0								
C10-C28 Diesel Range Hydrocarbons				711	15.0								
Total TPH				734	15.0								

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

Form 2 - Surrogate Recoveries

Project Name: Globe Eunice Yard

Work Orders : 523498, 523498 **Project ID:** 212C-MD-00374

Lab Batch #: 986710 **Sample:** 523498-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/28/16 13:57

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	78.1	99.6	78	70-135	
o-Terphenyl	38.7	49.8	78	70-135	

Lab Batch #: 986710 **Sample:** 523498-006 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/28/16 14:25

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	80.0	99.7	80	70-135	
o-Terphenyl	39.4	49.9	79	70-135	

Lab Batch #: 986710 **Sample:** 523498-007 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/28/16 14:53

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	85.2	100	85	70-135	
o-Terphenyl	41.9	50.0	84	70-135	

Lab Batch #: 986710 **Sample:** 523498-022 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/28/16 15:19

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	84.2	99.6	85	70-135	
o-Terphenyl	41.2	49.8	83	70-135	

Lab Batch #: 986710 **Sample:** 523498-023 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/28/16 15:47

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	82.9	99.9	83	70-135	
o-Terphenyl	41.4	50.0	83	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: Globe Eunice Yard

Work Orders : 523498, 523498 **Project ID:** 212C-MD-00374

Lab Batch #: 986710 **Sample:** 523498-024 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/28/16 16:41

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.3	100	91	70-135	
o-Terphenyl	45.2	50.0	90	70-135	

Lab Batch #: 986710 **Sample:** 523498-025 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/28/16 17:10

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	72.3	99.8	72	70-135	
o-Terphenyl	36.2	49.9	73	70-135	

Lab Batch #: 986710 **Sample:** 523498-027 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/28/16 17:39

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	80.5	99.9	81	70-135	
o-Terphenyl	38.0	50.0	76	70-135	

Lab Batch #: 986710 **Sample:** 704112-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01/28/16 12:07

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	99.4	100	99	70-135	
o-Terphenyl	49.8	50.0	100	70-135	

Lab Batch #: 986710 **Sample:** 704112-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01/28/16 12:35

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	104	100	104	70-135	
o-Terphenyl	46.2	50.0	92	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: Globe Eunice Yard

Work Orders : 523498, 523498 **Project ID:** 212C-MD-00374

Lab Batch #: 986710 **Sample:** 704112-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01/28/16 13:02

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	95.9	100	96	70-135	
o-Terphenyl	42.2	50.0	84	70-135	

Lab Batch #: 986710 **Sample:** 523500-024 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/28/16 22:09

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	82.4	99.9	82	70-135	
o-Terphenyl	36.2	50.0	72	70-135	

Lab Batch #: 986710 **Sample:** 523500-024 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/28/16 22:42

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.5	99.7	97	70-135	
o-Terphenyl	41.9	49.9	84	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.

BS / BSD Recoveries

Project Name: Globe Eunice Yard

Work Order #: 523498, 523498 **Project ID:** 212C-MD-00374

Analyst: MNR **Date Prepared:** 01/28/2016 **Date Analyzed:** 01/28/2016

Lab Batch ID: 986826 **Sample:** 704135-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<2.00	50.0	46.6	93	50.0	47.2	94	1	90-110	20	

Analyst: MNR **Date Prepared:** 01/28/2016 **Date Analyzed:** 01/29/2016

Lab Batch ID: 986839 **Sample:** 704137-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<2.00	50.0	46.7	93	50.0	47.1	94	1	90-110	20	

Analyst: PJB **Date Prepared:** 01/27/2016 **Date Analyzed:** 01/28/2016

Lab Batch ID: 986710 **Sample:** 704112-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C10 Gasoline Range Hydrocarbons	<15.0	1000	913	91	1000	859	86	6	70-135	35	
C10-C28 Diesel Range Hydrocarbons	<15.0	1000	991	99	1000	925	93	7	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: Globe Eunice Yard

Work Order #: 523498

Lab Batch #: 986826 **Project ID:** 212C-MD-00374

Date Analyzed: 01/28/2016 **Date Prepared:** 01/28/2016 **Analyst:** MNR

QC- Sample ID: 523498-001 S **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	2.33	50.0	46.6	89	80-120	

Lab Batch #: 986826

Date Analyzed: 01/28/2016 **Date Prepared:** 01/28/2016 **Analyst:** MNR

QC- Sample ID: 523498-013 S **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	30.1	50.0	75.0	90	80-120	

Lab Batch #: 986839

Date Analyzed: 01/29/2016 **Date Prepared:** 01/28/2016 **Analyst:** MNR

QC- Sample ID: 523498-024 S **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	18.8	50.0	63.5	89	80-120	

Lab Batch #: 986839

Date Analyzed: 01/29/2016 **Date Prepared:** 01/28/2016 **Analyst:** MNR

QC- Sample ID: 523500-007 S **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	505	500	979	95	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: Globe Eunice Yard

Work Order # : 523498 **Project ID:** 212C-MD-00374

Lab Batch ID: 986710 **QC- Sample ID:** 523500-024 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 01/28/2016 **Date Prepared:** 01/27/2016 **Analyst:** PJB

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C10 Gasoline Range Hydrocarbons	<15.0	999	827	83	997	880	88	6	70-135	35	
C10-C28 Diesel Range Hydrocarbons	<15.0	999	808	81	997	946	95	16	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

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

Relative 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 Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Analysis Request of Chain of Custody Record

TETRA TECH
1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

523498

CLIENT NAME: Globe

SITE MANAGER: Ike Tavarez

PROJECT NO.: 212C-MD-00374

PROJECT NAME: Globe - Eunice Yard Lea CO, NM

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8021B	TPH TX1005 (Ext. to C35)	TPH 8015 MOD	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
	1/21/16		S		✓	AH-1H 0-1	1	N			X															X				
						AH-2H 0-1																				X				
						1-1.5																				X				
						AH-3H 0-1								X																
						1-1.5								~~X~~		OT														
						AH-4H 0-1								X												X				
						AH-5H 0-1								X												X				
						1-1.5								~~X~~		OT										X				
						2-2.5								~~X~~		OT										X				
	↓		↓		↓	AH-6H 0-1	↓	↓			↓															X				

ANALYSIS REQUEST (Circle or Specify Method No.)

RELINQUISHED BY: (Signature) Cole Pine — Date: 1/22/16 Time: 1405

RECEIVED BY: (Signature) — Date: 1/22/16 Time: 1405

SAMPLED BY: (Print & Initial) Cole Pine CP — Date: 1/21/16 Time:

RELINQUISHED BY: (Signature) — Date: Time:

RECEIVED BY: (Signature) — Date: Time:

SAMPLE SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS — AIRBILL #: OTHER:

RELINQUISHED BY: (Signature) — Date: Time:

RECEIVED BY: (Signature) — Date: Time:

RECEIVING LABORATORY: Xenco
ADDRESS:
CITY: Midland STATE: TX ZIP: 79705
CONTACT: PHONE:

RECEIVED BY: (Signature)
DATE: TIME:

TETRA TECH CONTACT PERSON: Ike Tavarez

Results by:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 1.8°C

REMARKS: Run Chloride Samples if TPH exceeds 100 mg/kg

Please fill out all copies - Laboratory retains Yellow copy - Return Orginal copy to Tetra Tech - Project Manager retains Pink copy - Accounting receives Gold copy.

Analysis Request of Chain of Custody Record

TETRA TECH
1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

5234098

CLIENT NAME: Globe

SITE MANAGER: Ike Tavarez

PROJECT NO.: 212C-MD-00374

PROJECT NAME: Globe - Eunice Yard Lea Co. NM

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE
	1/21/16		S		X	AH-6H 1-1.5	1	N			X	
						2-2.5						
						AH-7H 0-1						
						1-1.5						
						AH-8H 0-1						
						1-1.5						
						AH-9H 0-1						
						1-1.5						
						AH-10H 0-1						
						1-1.5						

ANALYSIS REQUEST (Circle or Specify Method No.)

BTEX 8021B	TPH 8015 MOD. TX1005 (Ext. to C35)	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
												X				
												X				
												X				
												X				
												X				
												X				
												X				
												X				
												X				
												X				

RELINQUISHED BY: (Signature) Ike Tavarez — Date: 1/22/16 Time: 1405

RECEIVED BY: (Signature) — Date: 1/22/16 Time: 1405

SAMPLED BY: (Print & Initial) Ike Tavarez CP — Date: 1/21/16 Time:

RELINQUISHED BY: (Signature) — Date: Time:

RECEIVED BY: (Signature) — Date: Time:

SAMPLE SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS

AIRBILL #:

OTHER:

RELINQUISHED BY: (Signature) — Date: Time:

RECEIVED BY: (Signature) — Date: Time:

RECEIVING LABORATORY: Xenco

ADDRESS:

CITY: Midland STATE: TX ZIP: 79705

CONTACT: PHONE:

RECEIVED BY: (Signature) DATE: TIME:

TETRA TECH CONTACT PERSON: Ike Tavarez

Results by:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 1.8°C

REMARKS:

Please fill out all copies - Laboratory retains Yellow copy - Return Orginal copy to Tetra Tech - Project Manager retains Pink copy - Accounting receives Gold copy.

Analysis Request of Chain of Custody Record

TETRA TECH
1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

523498

CLIENT NAME: Globe

SITE MANAGER: Ike Tavarez

PROJECT NO.: 212C-MD-00574

PROJECT NAME: Globe - Eunice Yard Lea Co., NM

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8021B	TPH 8015 MOD (Ext. to C35)	TX1005	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
	1/21/16		S		X	AH-11H 0-1																				X				
						AH-12H 0-1								X																
						AH-13H 0-6"								X												X				
						AH-14H 0-6"								X												X				
						AH-15H 0-1								X												X				
						1-1.5								X												X				
						AH-16H 0-6"								X												X				

RELINQUISHED BY: (Signature) Cole Tanner — Date: 1/22/16 Time: 1105

RECEIVED BY: (Signature) — Date: 1/22/16 Time: 1405

RELINQUISHED BY: (Signature) — Date: Time:

RECEIVED BY: (Signature) — Date: Time:

RELINQUISHED BY: (Signature) — Date: Time:

RECEIVED BY: (Signature) — Date: Time:

SAMPLED BY: (Print & Initial) Cole Tanner CT — Date: 1/21/16 Time:

SAMPLE SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS — AIRBILL #: — OTHER:

RECEIVING LABORATORY: Xenco
ADDRESS:
CITY: Midland STATE: TX ZIP: 79705
CONTACT: PHONE:

RECEIVED BY: (Signature) — DATE: TIME:

TETRA TECH CONTACT PERSON: Ike Tavarez

Results by:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 1.8°C

REMARKS:

Please fill out all copies - Laboratory retains Yellow copy - Return Orginal copy to Tetra Tech - Project Manager retains Pink copy - Accounting receives Gold copy.

XENCO Laboratories
Prelogin/Nonconformance Report- Sample Log-In

Client: Tetra Tech- Midland

Date/ Time Received: 01/22/2016 02:05:00 PM

Work Order #: 523498

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

Temperature Measuring device used : r8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	1.8
#2 *Shipping container in good condition?	**Yes**
#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?	**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)?	**No**
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	**N/A**
#21 <2 for all samples preserved with HNO3,HCL, H2SO4? Except for samples for the analysis of HEM or HEM-SGT which are verified by the analysts.	**N/A**
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+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: Carley Owens Date: 01/25/2016

Carley Owens

Checklist reviewed by: Kelsey Brooks Date: 01/25/2016

Kelsey Brooks

Analytical Report 523500

for

Tetra Tech- Midland

Project Manager: Ike Tavarez

Globe Eunice Yard

212C-MD-00374

24-MAY-16

Collected By: Client

1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-15-19), Arizona (AZ0765), Florida (E871002), Louisiana (03054)
Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400)
Xenco-San Antonio: Texas (T104704534-15-1)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)
Texas (T104704477), Louisiana (04176), USDA (P330-07-00105)

Xenco-Lakeland: Florida (E84098)

24-MAY-16

Project Manager: **Ike Tavarez**
Tetra Tech- Midland
4000 N. Big Spring Suite 401
Midland, TX 79705

Reference: XENCO Report No(s): **523500**
Globe Eunice Yard
Project Address: Lea Co, NM

Ike Tavarez:

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) 523500. 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. 523500 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

Sample Cross Reference 523500

Tetra Tech- Midland, Midland, TX

Globe Eunice Yard

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH-1 (AH-6) 0-1	S	01-20-16 00:00	0 - 1 ft	523500-001
BH-1 (AH-6) 2-3	S	01-20-16 00:00	2 - 3 ft	523500-002
BH-1 (AH-6) 4-5	S	01-20-16 00:00	4 - 5 ft	523500-003
BH-1 (AH-6) 6-7	S	01-20-16 00:00	6 - 7 ft	523500-004
BH-1 (AH-6) 9-10	S	01-20-16 00:00	9 - 10 ft	523500-005
BH-1 (AH-6) 14-15	S	01-20-16 00:00	14 - 15 ft	523500-006
BH-1 (AH-6) 19-20	S	01-20-16 00:00	19 - 20 ft	523500-007
BH-1 (AH-6) 24-25	S	01-20-16 00:00	24 - 25 ft	523500-008
BH-2 (AH-7) 0-1	S	01-20-16 00:00	0 - 1 ft	523500-009
BH-2 (AH-7) 2-3	S	01-20-16 00:00	2 - 3 ft	523500-010
BH-2 (AH-7) 4-5	S	01-20-16 00:00	4 - 5 ft	523500-011
BH-2 (AH-7) 6-7	S	01-20-16 00:00	6 - 7 ft	523500-012
BH-2 (AH-7) 9-10	S	01-20-16 00:00	9 - 10 ft	523500-013
BH-2 (AH-7) 14-15	S	01-20-16 00:00	14 - 15 ft	523500-014
BH-2 (AH-7) 19-20	S	01-20-16 00:00	19 - 20 ft	523500-015
BH-2 (AH-7) 24-25	S	01-20-16 00:00	24 - 25 ft	523500-016
BH-3 (AH-8) 2-3	S	01-20-16 00:00	2 - 3 ft	523500-018
BH-4 (AH-4) 0-1	S	01-20-16 00:00	0 - 1 ft	523500-022
BH-4 (AH-4) 2-3	S	01-20-16 00:00	2 - 3 ft	523500-023
BH-4 (AH-4) 4-5	S	01-20-16 00:00	4 - 5 ft	523500-024
BH-4 (AH-4) 6-7	S	01-20-16 00:00	6 - 7 ft	523500-025
BH-4 (AH-4) 9-10	S	01-20-16 00:00	9 - 10 ft	523500-026
BH-4 (AH-4) 14-15	S	01-20-16 00:00	14 - 15 ft	523500-027
BH-4 (AH-4) 19-20	S	01-20-16 00:00	19 - 20 ft	523500-028
BH-4 (AH-4) 24-25	S	01-20-16 00:00	24 - 25 ft	523500-029
BH-5 (AH-3) 0-1	S	01-20-16 00:00	0 - 1 ft	523500-030
BH-5 (AH-3) 2-3	S	01-20-16 00:00	2 - 3 ft	523500-031
BH-5 (AH-3) 4-5	S	01-20-16 00:00	4 - 5 ft	523500-032
BH-5 (AH-3) 6-7	S	01-20-16 00:00	6 - 7 ft	523500-033
BH-5 (AH-3) 9-10	S	01-20-16 00:00	9 - 10 ft	523500-034
BH-5 (AH-3) 14-15	S	01-20-16 00:00	14 - 15 ft	523500-035
BH-5 (AH-3) 19-20	S	01-20-16 00:00	19 - 20 ft	523500-036
BH-5 (AH-3) 24-25	S	01-20-16 00:00	24 - 25 ft	523500-037
BH-6 (AH-1) 0-1	S	01-21-16 00:00	0 - 1 ft	523500-038
BH-6 (AH-1) 2-3	S	01-21-16 00:00	2 - 3 ft	523500-039
BH-6 (AH-1) 4-5	S	01-21-16 00:00	4 - 5 ft	523500-040
BH-6 (AH-1) 6-7	S	01-21-16 00:00	6 - 7 ft	523500-041
BH-6 (AH-1) 9-10	S	01-21-16 00:00	9 - 10 ft	523500-042
BH-6 (AH-1) 14-15	S	01-21-16 00:00	14 - 15 ft	523500-043
BH-6 (AH-1) 19-20	S	01-21-16 00:00	19 - 20 ft	523500-044
BH-6 (AH-1) 24-25	S	01-21-16 00:00	24 - 25 ft	523500-045
BH-7 (AH-14) 0-1	S	01-21-16 00:00	0 - 1 ft	523500-046
BH-7 (AH-14) 2-3	S	01-21-16 00:00	2 - 3 ft	523500-047

BH-7 (AH-14) 4-5	S	01-21-16 00:00	4 - 5 ft	523500-048
BH-8 (AH-15) 2-3	S	01-21-16 00:00	2 - 3 ft	523500-050
BH-9 (AH-19 & AH-20) 2-3	S	01-21-16 00:00	2 - 3 ft	523500-055
BH-10 (AH-17) 0-1	S	01-21-16 00:00	0 - 1 ft	523500-059
BH-10 (AH-17) 2-3	S	01-21-16 00:00	2 - 3 ft	523500-060
BH-10 (AH-17) 4-5	S	01-21-16 00:00	4 - 5 ft	523500-061
BH-10 (AH-17) 6-7	S	01-21-16 00:00	6 - 7 ft	523500-062
BH-10 (AH-17) 9-10	S	01-21-16 00:00	9 - 10 ft	523500-063
BH-10 (AH-17) 14-15	S	01-21-16 00:00	14 - 15 ft	523500-064
BH-10 (AH-17) 19-20	S	01-21-16 00:00	19 - 20 ft	523500-065
BH-10 (AH-17) 24-25	S	01-21-16 00:00	24 - 25 ft	523500-066
BH-11 (AH-21) 0-1	S	01-21-16 00:00	0 - 1 ft	523500-067
BH-11 (AH-21) 2-3	S	01-21-16 00:00	2 - 3 ft	523500-068
BH-11 (AH-21) 4-5	S	01-21-16 00:00	4 - 5 ft	523500-069
BH-11 (AH-21) 6-7	S	01-21-16 00:00	6 - 7 ft	523500-070
BH-11 (AH-21) 9-10	S	01-21-16 00:00	9 - 10 ft	523500-071
BH-11 (AH-21) 14-15	S	01-21-16 00:00	14 - 15 ft	523500-072
BH-11 (AH-21) 19-20	S	01-21-16 00:00	19 - 20 ft	523500-073
BH-12 (AH-22) 2-3	S	01-21-16 00:00	2 - 3 ft	523500-075
BH-3 (AH-8) 0-1	S	01-20-16 00:00	0 - 1 ft	Not Analyzed
BH-3 (AH-8) 4-5	S	01-20-16 00:00	4 - 5 ft	Not Analyzed
BH-3 (AH-8) 6-7	S	01-20-16 00:00	6 - 7 ft	Not Analyzed
BH-3 (AH-8) 9-10	S	01-20-16 00:00	9 - 10 ft	Not Analyzed
BH-8 (AH-15) 0-1	S	01-21-16 00:00	0 - 1 ft	Not Analyzed
BH-8 (AH-15) 4-5	S	01-21-16 00:00	4 - 5 ft	Not Analyzed
BH-8 (AH-15) 6-7	S	01-21-16 00:00	6 - 7 ft	Not Analyzed
BH-8 (AH-15) 9-10	S	01-21-16 00:00	9 - 10 ft	Not Analyzed
BH-9 (AH-19 & AH-20) 0-1	S	01-21-16 00:00	0 - 1 ft	Not Analyzed
BH-9 (AH-19 & AH-20) 4-5	S	01-21-16 00:00	4 - 5 ft	Not Analyzed
BH-9 (AH-19 & AH-20) 6-7	S	01-21-16 00:00	6 - 7 ft	Not Analyzed
BH-9 (AH-19 & AH-20) 9-10	S	01-21-16 00:00	9 - 10 ft	Not Analyzed
BH-12 (AH-22) 0-1	S	01-21-16 00:00	0 - 1 ft	Not Analyzed
BH-12 (AH-22) 4-5	S	01-21-16 00:00	4 - 5 ft	Not Analyzed
BH-12 (AH-22) 6-7	S	01-21-16 00:00	6 - 7 ft	Not Analyzed
BH-12 (AH-22) 9-10	S	01-21-16 00:00	9 - 10 ft	Not Analyzed

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Certificate of Analysis Summary 523500

Tetra Tech- Midland, Midland, TX

Project Name: Globe Eunice Yard

Project Id: 212C-MD-00374
Contact: Ike Tavarez
Project Location: Lea Co, NM

Date Received in Lab: Fri Jan-22-16 02:05 pm
Report Date: 24-MAY-16
Project Manager: Kelsey Brooks

Analysis Requested													
	Lab Id:	523500-001		523500-002		523500-003		523500-004		523500-005		523500-006	
	Field Id:	BH-1 (AH-6) 0-1		BH-1 (AH-6) 2-3		BH-1 (AH-6) 4-5		BH-1 (AH-6) 6-7		BH-1 (AH-6) 9-10		BH-1 (AH-6) 14-15	
	Depth:	0-1 ft		2-3 ft		4-5 ft		6-7 ft		9-10 ft		14-15 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jan-20-16 00:00		Jan-20-16 00:00		Jan-20-16 00:00		Jan-20-16 00:00		Jan-20-16 00:00		Jan-20-16 00:00	
Inorganic Anions by EPA 300/300.1	***Extracted:***	Jan-28-16 10:00		Jan-28-16 10:00		Jan-28-16 10:00		Jan-28-16 10:00		Jan-28-16 10:00		Jan-28-16 10:00	
	Analyzed:	Jan-29-16 04:00		Jan-29-16 04:19		Jan-29-16 11:43		Jan-29-16 12:01		Jan-29-16 12:26		Jan-29-16 12:45	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		11.4	10.0	2740	200	8850	400	2960	100	217	20.0	840	40.0

Kelsey Brooks
Project Manager

Certificate of Analysis Summary 523500

Tetra Tech- Midland, Midland, TX

Project Name: Globe Eunice Yard

Project Id: 212C-MD-00374
Contact: Ike Tavarez
Project Location: Lea Co, NM

Date Received in Lab: Fri Jan-22-16 02:05 pm
Report Date: 24-MAY-16
Project Manager: Kelsey Brooks

Analysis Requested													
	Lab Id:	523500-007		523500-008		523500-009		523500-010		523500-011		523500-012	
	Field Id:	BH-1 (AH-6) 19-20		BH-1 (AH-6) 24-25		BH-2 (AH-7) 0-1		BH-2 (AH-7) 2-3		BH-2 (AH-7) 4-5		BH-2 (AH-7) 6-7	
	Depth:	19-20 ft		24-25 ft		0-1 ft		2-3 ft		4-5 ft		6-7 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jan-20-16 00:00		Jan-20-16 00:00		Jan-20-16 00:00		Jan-20-16 00:00		Jan-20-16 00:00		Jan-20-16 00:00	
Inorganic Anions by EPA 300/300.1	***Extracted:***	Jan-28-16 10:00		Jan-28-16 10:00		Jan-28-16 10:00		Jan-28-16 10:00		Jan-28-16 10:00		Jan-28-16 10:00	
	Analyzed:	Jan-29-16 13:03		Jan-29-16 13:39		Jan-29-16 13:57		Jan-29-16 14:16		Jan-29-16 14:34		Jan-29-16 15:28	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		505	20.0	286	40.0	2360	200	8890	400	2030	100	619	40.0

Kelsey Brooks
Project Manager

Certificate of Analysis Summary 523500

Tetra Tech- Midland, Midland, TX

Project Name: Globe Eunice Yard

Project Id: 212C-MD-00374
Contact: Ike Tavarez
Project Location: Lea Co, NM

Date Received in Lab: Fri Jan-22-16 02:05 pm
Report Date: 24-MAY-16
Project Manager: Kelsey Brooks

Analysis Requested													
	Lab Id:	523500-013		523500-014		523500-015		523500-016		523500-018		523500-022	
	Field Id:	BH-2 (AH-7) 9-10		BH-2 (AH-7) 14-15		BH-2 (AH-7) 19-20		BH-2 (AH-7) 24-25		BH-3 (AH-8) 2-3		BH-4 (AH-4) 0-1	
	Depth:	9-10 ft		14-15 ft		19-20 ft		24-25 ft		2-3 ft		0-1 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jan-20-16 00:00		Jan-20-16 00:00		Jan-20-16 00:00		Jan-20-16 00:00		Jan-20-16 00:00		Jan-20-16 00:00	
Inorganic Anions by EPA 300/300.1	***Extracted:***	Jan-28-16 10:00		Jan-28-16 10:00		Jan-28-16 10:00		Jan-28-16 10:00				Jan-29-16 09:00	
	Analyzed:	Jan-29-16 15:47		Jan-29-16 16:05		Jan-29-16 16:23		Jan-29-16 19:44				Jan-30-16 13:52	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL			mg/kg	RL
Chloride		338	20.0	381	20.0	99.0	10.0	455	20.0			4880	400
TPH By SW8015 Mod	***Extracted:***									Jan-27-16 11:00			
	Analyzed:									Jan-28-16 18:45			
	Units/RL:									mg/kg	RL		
C6-C10 Gasoline Range Hydrocarbons										ND	14.9		
C10-C28 Diesel Range Hydrocarbons										ND	14.9		
Total TPH										ND	14.9		

Kelsey Brooks
Project Manager

Certificate of Analysis Summary 523500

Tetra Tech- Midland, Midland, TX

Project Name: Globe Eunice Yard

Project Id: 212C-MD-00374
Contact: Ike Tavarez
Project Location: Lea Co, NM

Date Received in Lab: Fri Jan-22-16 02:05 pm
Report Date: 24-MAY-16
Project Manager: Kelsey Brooks

Analysis Requested													
	Lab Id:	523500-023		523500-024		523500-025		523500-026		523500-027		523500-028	
	Field Id:	BH-4 (AH-4) 2-3		BH-4 (AH-4) 4-5		BH-4 (AH-4) 6-7		BH-4 (AH-4) 9-10		BH-4 (AH-4) 14-15		BH-4 (AH-4) 19-20	
	Depth:	2-3 ft		4-5 ft		6-7 ft		9-10 ft		14-15 ft		19-20 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jan-20-16 00:00		Jan-20-16 00:00		Jan-20-16 00:00		Jan-20-16 00:00		Jan-20-16 00:00		Jan-20-16 00:00	
Inorganic Anions by EPA 300/300.1	***Extracted:***	Jan-29-16 09:00		Jan-29-16 09:00		Jan-29-16 09:00		Jan-29-16 09:00		Jan-29-16 09:00		Jan-29-16 09:00	
	Analyzed:	Jan-30-16 14:29		Jan-30-16 14:47		Jan-30-16 15:05		Jan-30-16 15:23		Jan-30-16 15:42		Jan-30-16 16:36	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		6460	400	9060	400	6570	400	10200	400	10100	400	3780	400
TPH By SW8015 Mod	***Extracted:***			Jan-27-16 11:00									
	Analyzed:			Jan-28-16 21:35									
	Units/RL:			mg/kg	RL								
C6-C10 Gasoline Range Hydrocarbons				ND	15.0								
C10-C28 Diesel Range Hydrocarbons				ND	15.0								
Total TPH				ND	15.0								

Kelsey Brooks
Project Manager

Certificate of Analysis Summary 523500

Tetra Tech- Midland, Midland, TX

Project Name: Globe Eunice Yard

Project Id: 212C-MD-00374
Contact: Ike Tavarez
Project Location: Lea Co, NM

Date Received in Lab: Fri Jan-22-16 02:05 pm
Report Date: 24-MAY-16
Project Manager: Kelsey Brooks

Analysis Requested													
	Lab Id:	523500-029		523500-030		523500-031		523500-032		523500-033		523500-034	
	Field Id:	BH-4 (AH-4) 24-25		BH-5 (AH-3) 0-1		BH-5 (AH-3) 2-3		BH-5 (AH-3) 4-5		BH-5 (AH-3) 6-7		BH-5 (AH-3) 9-10	
	Depth:	24-25 ft		0-1 ft		2-3 ft		4-5 ft		6-7 ft		9-10 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jan-20-16 00:00		Jan-20-16 00:00		Jan-20-16 00:00		Jan-20-16 00:00		Jan-20-16 00:00		Jan-20-16 00:00	
Inorganic Anions by EPA 300/300.1	***Extracted:***	Jan-29-16 09:00		Jan-29-16 09:00		Jan-29-16 09:00		Jan-29-16 09:00		Jan-29-16 09:00		Jan-29-16 09:00	
	Analyzed:	Jan-30-16 16:54		Jan-30-16 17:13		Jan-30-16 17:31		Jan-30-16 17:49		Jan-30-16 18:26		Jan-30-16 18:44	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1320	100	133	20.0	7070	400	3150	200	1340	100	234	20.0
TPH By SW8015 Mod	***Extracted:***					Jan-27-16 11:00							
	Analyzed:					Jan-28-16 18:10							
	Units/RL:					mg/kg	RL						
C6-C10 Gasoline Range Hydrocarbons						ND	15.0						
C10-C28 Diesel Range Hydrocarbons						ND	15.0						
Total TPH						ND	15.0						

Kelsey Brooks
Project Manager

Certificate of Analysis Summary 523500

Tetra Tech- Midland, Midland, TX

Project Name: Globe Eunice Yard

Project Id: 212C-MD-00374
Contact: Ike Tavarez
Project Location: Lea Co, NM

Date Received in Lab: Fri Jan-22-16 02:05 pm
Report Date: 24-MAY-16
Project Manager: Kelsey Brooks

Analysis Requested													
	Lab Id:	523500-035		523500-036		523500-037		523500-038		523500-039		523500-040	
	Field Id:	BH-5 (AH-3) 14-15		BH-5 (AH-3) 19-20		BH-5 (AH-3) 24-25		BH-6 (AH-1) 0-1		BH-6 (AH-1) 2-3		BH-6 (AH-1) 4-5	
	Depth:	14-15 ft		19-20 ft		24-25 ft		0-1 ft		2-3 ft		4-5 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jan-20-16 00:00		Jan-20-16 00:00		Jan-20-16 00:00		Jan-21-16 00:00		Jan-21-16 00:00		Jan-21-16 00:00	
Inorganic Anions by EPA 300/300.1	***Extracted:***	Jan-29-16 09:00		Jan-29-16 09:00		Jan-29-16 09:00		Jan-29-16 09:00		Jan-29-16 09:00		Jan-29-16 09:00	
	Analyzed:	Jan-30-16 19:02		Jan-30-16 19:20		Jan-31-16 11:17		Jan-31-16 11:35		Jan-31-16 11:53		Jan-31-16 12:11	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		146	10.0	44.2	10.0	426	20.0	525	20.0	3700	400	7630	400

Kelsey Brooks
Project Manager

Certificate of Analysis Summary 523500

Tetra Tech- Midland, Midland, TX

Project Name: Globe Eunice Yard

Project Id: 212C-MD-00374
Contact: Ike Tavarez
Project Location: Lea Co, NM

Date Received in Lab: Fri Jan-22-16 02:05 pm
Report Date: 24-MAY-16
Project Manager: Kelsey Brooks

Analysis Requested													
	Lab Id:	523500-041		523500-042		523500-043		523500-044		523500-045		523500-046	
	Field Id:	BH-6 (AH-1) 6-7		BH-6 (AH-1) 9-10		BH-6 (AH-1) 14-15		BH-6 (AH-1) 19-20		BH-6 (AH-1) 24-25		BH-7 (AH-14) 0-1	
	Depth:	6-7 ft		9-10 ft		14-15 ft		19-20 ft		24-25 ft		0-1 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jan-21-16 00:00		Jan-21-16 00:00		Jan-21-16 00:00		Jan-21-16 00:00		Jan-21-16 00:00		Jan-21-16 00:00	
Inorganic Anions by EPA 300/300.1	***Extracted:***	Jan-29-16 09:00		Jan-29-16 12:00		Jan-29-16 12:00		Jan-29-16 12:00		Jan-29-16 12:00		Jan-29-16 12:00	
	Analyzed:	Jan-31-16 12:30		Jan-31-16 13:42		Jan-31-16 14:56		Jan-31-16 15:14		Jan-31-16 15:32		Jan-31-16 15:50	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1920	100	1620	100	720	40.0	235	20.0	370	20.0	15.3	2.00

Kelsey Brooks
Project Manager

Certificate of Analysis Summary 523500

Tetra Tech- Midland, Midland, TX

Project Name: Globe Eunice Yard

Project Id: 212C-MD-00374
Contact: Ike Tavarez
Project Location: Lea Co, NM

Date Received in Lab: Fri Jan-22-16 02:05 pm
Report Date: 24-MAY-16
Project Manager: Kelsey Brooks

Analysis Requested													
	Lab Id:	523500-047		523500-048		523500-050		523500-055		523500-059		523500-060	
	Field Id:	BH-7 (AH-14) 2-3		BH-7 (AH-14) 4-5		BH-8 (AH-15) 2-3		BH-9 (AH-19 & AH-20) 2-3		BH-10 (AH-17) 0-1		BH-10 (AH-17) 2-3	
	Depth:	2-3 ft		4-5 ft		2-3 ft		2-3 ft		0-1 ft		2-3 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jan-21-16 00:00		Jan-21-16 00:00		Jan-21-16 00:00		Jan-21-16 00:00		Jan-21-16 00:00		Jan-21-16 00:00	
Inorganic Anions by EPA 300/300.1	***Extracted:***	Jan-29-16 12:00		Jan-29-16 12:00						Jan-29-16 12:00		Jan-29-16 12:00	
	Analyzed:	Jan-31-16 16:08		Jan-31-16 16:27						Jan-31-16 16:45		Jan-31-16 17:03	
	Units/RL:	mg/kg	RL	mg/kg	RL					mg/kg	RL	mg/kg	RL
Chloride		41.5	10.0	8.38	2.00					131	10.0	4210	400
TPH By SW8015 Mod	***Extracted:***					Jan-27-16 11:00		Jan-27-16 11:00				Jan-27-16 11:00	
	Analyzed:					Jan-28-16 20:27		Jan-28-16 19:20				Jan-28-16 21:04	
	Units/RL:					mg/kg	RL	mg/kg	RL			mg/kg	RL
C6-C10 Gasoline Range Hydrocarbons						ND	14.9	ND	15.0			ND	15.0
C10-C28 Diesel Range Hydrocarbons						ND	14.9	ND	15.0			ND	15.0
Total TPH						ND	14.9	ND	15.0			ND	15.0

Kelsey Brooks
Project Manager

Certificate of Analysis Summary 523500

Tetra Tech- Midland, Midland, TX

Project Name: Globe Eunice Yard

Project Id: 212C-MD-00374
Contact: Ike Tavarez
Project Location: Lea Co, NM

Date Received in Lab: Fri Jan-22-16 02:05 pm
Report Date: 24-MAY-16
Project Manager: Kelsey Brooks

Analysis Requested													
	Lab Id:	523500-061		523500-062		523500-063		523500-064		523500-065		523500-066	
	Field Id:	BH-10 (AH-17) 4-5		BH-10 (AH-17) 6-7		BH-10 (AH-17) 9-10		BH-10 (AH-17) 14-15		BH-10 (AH-17) 19-20		BH-10 (AH-17) 24-25	
	Depth:	4-5 ft		6-7 ft		9-10 ft		14-15 ft		19-20 ft		24-25 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jan-21-16 00:00		Jan-21-16 00:00		Jan-21-16 00:00		Jan-21-16 00:00		Jan-21-16 00:00		Jan-21-16 00:00	
Inorganic Anions by EPA 300/300.1	***Extracted:***	Jan-29-16 12:00		Jan-29-16 12:00		Jan-29-16 12:00		Jan-29-16 12:00		Jan-29-16 12:00		Jan-29-16 12:00	
	Analyzed:	Jan-31-16 17:21		Jan-31-16 17:39		Jan-31-16 18:52		Jan-31-16 19:11		Jan-31-16 19:29		Jan-31-16 19:47	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		259	20.0	128	10.0	254	20.0	196	10.0	50.8	10.0	76.1	10.0

Kelsey Brooks
Project Manager

Certificate of Analysis Summary 523500

Tetra Tech- Midland, Midland, TX

Project Name: Globe Eunice Yard

Project Id: 212C-MD-00374
Contact: Ike Tavarez
Project Location: Lea Co, NM

Date Received in Lab: Fri Jan-22-16 02:05 pm
Report Date: 24-MAY-16
Project Manager: Kelsey Brooks

Analysis Requested													
	Lab Id:	523500-067		523500-068		523500-069		523500-070		523500-071		523500-072	
	Field Id:	BH-11 (AH-21) 0-1		BH-11 (AH-21) 2-3		BH-11 (AH-21) 4-5		BH-11 (AH-21) 6-7		BH-11 (AH-21) 9-10		BH-11 (AH-21) 14-15	
	Depth:	0-1 ft		2-3 ft		4-5 ft		6-7 ft		9-10 ft		14-15 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jan-21-16 00:00		Jan-21-16 00:00		Jan-21-16 00:00		Jan-21-16 00:00		Jan-21-16 00:00		Jan-21-16 00:00	
Inorganic Anions by EPA 300/300.1	***Extracted:***	Jan-29-16 12:00		Jan-29-16 15:00		Jan-29-16 15:00		Jan-29-16 15:00		Jan-29-16 15:00		Jan-29-16 15:00	
	Analyzed:	Jan-31-16 20:05		Jan-31-16 21:18		Jan-31-16 22:32		Jan-31-16 22:50		Jan-31-16 23:08		Jan-31-16 23:26	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		ND	2.00	4170	400	82.2	10.0	14.3	2.00	78.0	2.00	40.7	2.00

Kelsey Brooks
Project Manager

Certificate of Analysis Summary 523500

Tetra Tech- Midland, Midland, TX

Project Name: Globe Eunice Yard

Project Id: 212C-MD-00374
Contact: Ike Tavarez
Project Location: Lea Co, NM

Date Received in Lab: Fri Jan-22-16 02:05 pm
Report Date: 24-MAY-16
Project Manager: Kelsey Brooks

Analysis Requested							
	Lab Id:	523500-073	523500-075				
	Field Id:	BH-11 (AH-21) 19-20	BH-12 (AH-22) 2-3				
	Depth:	19-20 ft	2-3 ft				
	Matrix:	SOIL	SOIL				
	Sampled:	Jan-21-16 00:00	Jan-21-16 00:00				
Inorganic Anions by EPA 300/300.1	***Extracted:***	Jan-29-16 15:00					
	Analyzed:	Jan-31-16 23:44					
	Units/RL:	mg/kg RL					
Chloride		69.5 2.00					
TPH By SW8015 Mod	***Extracted:***		Jan-27-16 11:00				
	Analyzed:		Jan-28-16 19:54				
	Units/RL:		mg/kg RL				
C6-C10 Gasoline Range Hydrocarbons			ND 15.0				
C10-C28 Diesel Range Hydrocarbons			ND 15.0				
Total TPH			ND 15.0				

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

	Phone	Fax
4147 Greenbriar Dr, Stafford, TX 77477	(281) 240-4200	(281) 240-4280
9701 Harry Hines Blvd , Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
1211 W Florida Ave, Midland, TX 79701	(432) 563-1800	(432) 563-1713
2525 W. Huntington Dr. - Suite 102, Tempe AZ 85282	(602) 437-0330	

Form 2 - Surrogate Recoveries

Project Name: Globe Eunice Yard

Work Orders : 523500, 523500 **Project ID:** 212C-MD-00374

Lab Batch #: 986710 **Sample:** 523500-031 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/28/16 18:10

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	76.9	99.9	77	70-135	
o-Terphenyl	37.8	50.0	76	70-135	

Lab Batch #: 986710 **Sample:** 523500-018 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/28/16 18:45

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	81.1	99.6	81	70-135	
o-Terphenyl	40.1	49.8	81	70-135	

Lab Batch #: 986710 **Sample:** 523500-055 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/28/16 19:20

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	76.5	99.8	77	70-135	
o-Terphenyl	38.3	49.9	77	70-135	

Lab Batch #: 986710 **Sample:** 523500-075 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/28/16 19:54

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	85.3	99.9	85	70-135	
o-Terphenyl	42.0	50.0	84	70-135	

Lab Batch #: 986710 **Sample:** 523500-050 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/28/16 20:27

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	84.2	99.6	85	70-135	
o-Terphenyl	41.7	49.8	84	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: Globe Eunice Yard

Work Orders : 523500, 523500 **Project ID:** 212C-MD-00374

Lab Batch #: 986710 **Sample:** 523500-060 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/28/16 21:04

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	79.3	100	79	70-135	
o-Terphenyl	39.1	50.0	78	70-135	

Lab Batch #: 986710 **Sample:** 523500-024 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/28/16 21:35

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	70.1	99.8	70	70-135	
o-Terphenyl	35.1	49.9	70	70-135	

Lab Batch #: 986710 **Sample:** 704112-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01/28/16 12:07

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	99.4	100	99	70-135	
o-Terphenyl	49.8	50.0	100	70-135	

Lab Batch #: 986710 **Sample:** 704112-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01/28/16 12:35

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	104	100	104	70-135	
o-Terphenyl	46.2	50.0	92	70-135	

Lab Batch #: 986710 **Sample:** 704112-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01/28/16 13:02

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	95.9	100	96	70-135	
o-Terphenyl	42.2	50.0	84	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: Globe Eunice Yard

Work Orders : 523500, 523500 **Project ID:** 212C-MD-00374

Lab Batch #: 986710 **Sample:** 523500-024 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/28/16 22:09

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	82.4	99.9	82	70-135	
o-Terphenyl	36.2	50.0	72	70-135	

Lab Batch #: 986710 **Sample:** 523500-024 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/28/16 22:42

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.5	99.7	97	70-135	
o-Terphenyl	41.9	49.9	84	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.

BS / BSD Recoveries

Project Name: Globe Eunice Yard

Work Order #: 523500, 523500 **Project ID:** 212C-MD-00374

Analyst: MNR **Date Prepared:** 01/28/2016 **Date Analyzed:** 01/29/2016

Lab Batch ID: 986839 **Sample:** 704137-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<2.00	50.0	46.7	93	50.0	47.1	94	1	90-110	20	

Analyst: MNR **Date Prepared:** 01/29/2016 **Date Analyzed:** 01/30/2016

Lab Batch ID: 986872 **Sample:** 704166-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<2.00	50.0	46.6	93	50.0	46.2	92	1	90-110	20	

Analyst: MNR **Date Prepared:** 01/29/2016 **Date Analyzed:** 01/31/2016

Lab Batch ID: 986875 **Sample:** 704168-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<2.00	50.0	50.7	101	50.0	47.3	95	7	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

BS / BSD Recoveries

Project Name: Globe Eunice Yard

Work Order #: 523500, 523500 **Project ID:** 212C-MD-00374

Analyst: MNR **Date Prepared:** 01/29/2016 **Date Analyzed:** 01/31/2016

Lab Batch ID: 986876 **Sample:** 704169-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<2.00	50.0	46.8	94	50.0	46.6	93	0	90-110	20	

Analyst: PJB **Date Prepared:** 01/27/2016 **Date Analyzed:** 01/28/2016

Lab Batch ID: 986710 **Sample:** 704112-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C10 Gasoline Range Hydrocarbons	<15.0	1000	913	91	1000	859	86	6	70-135	35	
C10-C28 Diesel Range Hydrocarbons	<15.0	1000	991	99	1000	925	93	7	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: Globe Eunice Yard

Work Order #: 523500

Lab Batch #: 986839 **Project ID:** 212C-MD-00374

Date Analyzed: 01/29/2016 **Date Prepared:** 01/28/2016 **Analyst:** MNR

QC- Sample ID: 523498-024 S **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	18.8	50.0	63.5	89	80-120	

Lab Batch #: 986839

Date Analyzed: 01/29/2016 **Date Prepared:** 01/28/2016 **Analyst:** MNR

QC- Sample ID: 523500-007 S **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	505	500	979	95	80-120	

Lab Batch #: 986872

Date Analyzed: 01/30/2016 **Date Prepared:** 01/29/2016 **Analyst:** MNR

QC- Sample ID: 523500-022 S **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	4880	10000	13900	90	80-120	

Lab Batch #: 986872

Date Analyzed: 01/30/2016 **Date Prepared:** 01/29/2016 **Analyst:** MNR

QC- Sample ID: 523500-032 S **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	3150	5000	7990	97	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 Recoveries

Project Name: Globe Eunice Yard

Work Order #: 523500

Lab Batch #: 986875 **Project ID:** 212C-MD-00374

Date Analyzed: 01/31/2016 **Date Prepared:** 01/29/2016 **Analyst:** MNR

QC- Sample ID: 523500-042 S **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	1620	2500	4240	105	80-120	

Lab Batch #: 986875

Date Analyzed: 01/31/2016 **Date Prepared:** 01/29/2016 **Analyst:** MNR

QC- Sample ID: 523500-062 S **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	128	250	371	97	80-120	

Lab Batch #: 986876

Date Analyzed: 01/31/2016 **Date Prepared:** 01/29/2016 **Analyst:** MNR

QC- Sample ID: 523500-068 S **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	4170	10000	14100	99	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: Globe Eunice Yard

Work Order # : 523500 **Project ID:** 212C-MD-00374

Lab Batch ID: 986710 **QC- Sample ID:** 523500-024 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 01/28/2016 **Date Prepared:** 01/27/2016 **Analyst:** PJB

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C10 Gasoline Range Hydrocarbons	<15.0	999	827	83	997	880	88	6	70-135	35	
C10-C28 Diesel Range Hydrocarbons	<15.0	999	808	81	997	946	95	16	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

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

Relative 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 Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Analysis Request of Chain of Custody Record

TETRA TECH
1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

523500

CLIENT NAME: Globe Energy

SITE MANAGER: Ike Tavarez

PROJECT NO.: 212C-MD-00874

PROJECT NAME: Globe Eunice Yard

LAB I.D. NUMBER	DATE 2016	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION Lea Co. NM	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8021B	TPH 8015 MOD. TX1005 (Ext. to C35)	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
	1/20		S		X	BH-1 (AH-6) 0-1	1				X													X				
						2-3	1				X													X				
						4-5	1				X													X				
						6-7	1				X													X				
						9-10	1				X													X				
						14-15	1				X													X				
						19-20	1				X													X				
						24-25	1				X													X				
						BH-2 (AH-7) 0-1	1				X													X				
						2-3	1				X													X				

RELINQUISHED BY: (Signature) Clara Gonzales — Date: 1/22/16 Time: 1315

RECEIVED BY: (Signature) Celeste — Date: 1/22/16 Time: 1315

RELINQUISHED BY: (Signature) Celeste — Date: 1/22/16 Time: 1405

RECEIVED BY: (Signature) — Date: 1/22/16 Time: 1405

RELINQUISHED BY: (Signature) — Date: Time:

RECEIVED BY: (Signature) — Date: Time:

SAMPLED BY: (Print & Initial) G — Date: 1/20/16 Time:

SAMPLE SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS — AIRBILL #: OTHER:

RECEIVING LABORATORY:
ADDRESS:
CITY: STATE: ZIP:
CONTACT: PHONE:

RECEIVED BY: (Signature)
DATE: TIME:

TETRA TECH CONTACT PERSON:

Results by:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 1.8°C

REMARKS: Run deeper samples if TPH exceeds 100 mg/kg (BH-1 through BH-12)

Please fill out all copies - Laboratory retains Yellow copy - Return Orginal copy to Tetra Tech - Project Manager retains Pink copy - Accounting receives Gold copy.

Analysis Request of Chain of Custody Record

TETRA TECH
1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

523500

CLIENT NAME: Globe Energy
SITE MANAGER: Ike Tavarez
PROJECT NO.: 212C-MD-00374
PROJECT NAME: Eunice Yard

LAB I.D. NUMBER	DATE 2016	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE
	1/20		S		X	BH-2 (A-B) 4-5	1				X	
						6-7	1				X	
						9-10	1				X	
						14-15	1				X	
						19-20	1				X	
						24-25	1				X	
						BH-3 (A-B) 0-1	1				X	
						2-3	1				X	
						4-5	1				X	
						6-7	1				X	

ANALYSIS REQUEST (Circle or Specify Method No.)

BTEX 8021B	TPH 8015 MOD. (Ext to C35)	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Cmtonds	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
											X	X				
											X	X				
											X	X				
											X	X				
											X	X				
											X	X				
X	X															
X																

RELINQUISHED BY: (Signature) — Date: 1/22/16 Time: 1315
RECEIVED BY: (Signature) — Date: 1/22/16 Time: 1315
RELINQUISHED BY: (Signature) — Date: 1/22/16 Time: 1405
RECEIVED BY: (Signature) — Date: 1/22/16 Time: 1405
RELINQUISHED BY: (Signature) — Date: Time:
RECEIVED BY: (Signature) — Date: Time:

SAMPLED BY: (Print & Initial) CG — Date: 1/20/16 Time:

SAMPLE SHIPPED BY: (Circle)
FEDEX BUS
HAND DELIVERED UPS
AIRBILL #:
OTHER:

TETRA TECH CONTACT PERSON:
Results by:
RUSH Charges Authorized: Yes No

RECEIVING LABORATORY:
ADDRESS:
CITY: STATE: ZIP:
CONTACT: PHONE:
RECEIVED BY: (Signature)
DATE: TIME:

SAMPLE CONDITION WHEN RECEIVED: 1.8°C
REMARKS:

Please fill out all copies - Laboratory retains Yellow copy - Return Orginal copy to Tetra Tech - Project Manager retains Pink copy - Accounting receives Gold copy.

Analysis Request of Chain of Custody Record

PAGE: 3 OF: 3

TETRA TECH
1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

523500

CLIENT NAME: Globe Energy
SITE MANAGER: Ike Tavarez
PROJECT NO.: 212C-MD-00574
PROJECT NAME: Globe Eunice Yard

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB I.D. NUMBER	DATE 2016	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION Lea Co NM	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8021B	TPH 8015 MOD. TX1005 (Ext. to C35)	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
	1/20		S		X	BH-3 (AH-8) 9-10	1				X													X				
						BH-4 (AH-4) 0-1	1				X			X										X				
						2-3	1				X													X				
						4-5	1				X			X										X				
						6-7	1				X													X				
						9-10	1				X													X				
						14-15	1				X													X				
						19-20	1				X													X				
						24-25	1				X													X				
						BH-5 (AH-3) 0-1	1				X			X										X				

RELINQUISHED BY: (Signature) Date: 1/22/16 Time: 1015
RECEIVED BY: (Signature) Date: 1/22/16 Time: 1315
SAMPLED BY: (Print & Initial) Date: 1/20/16 Time:

RELINQUISHED BY: (Signature) Date: 1/22/16 Time: 1405
RECEIVED BY: (Signature) Date: 1/22/16 Time: 1405
SAMPLE SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS
AIRBILL #:

RELINQUISHED BY: (Signature) Date: Time:
RECEIVED BY: (Signature) Date: Time:
OTHER:

RECEIVING LABORATORY:
ADDRESS:
CITY: STATE: ZIP:
CONTACT: PHONE:
RECEIVED BY: (Signature)
DATE: TIME:

TETRA TECH CONTACT PERSON:
Results by:
RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 1.8°C
REMARKS:

Please fill out all copies - Laboratory retains Yellow copy - Return Orginal copy to Tetra Tech - Project Manager retains Pink copy - Accounting receives Gold copy.

Analysis Request of Chain of Custody Record

TETRA TECH
1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

523500

CLIENT NAME: Globe Energy
SITE MANAGER: Ike Tavarez
PROJECT NO.: 212C-MD-00374
PROJECT NAME: Globe Eunice Yard

LAB I.D. NUMBER	DATE 2016	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE
	1/20		S		X	BH-5 (A-3) 2-3	1				X	
						4-5	1				X	
						6-7	1				X	
						9-10	1				X	
						14-15	1				X	
						19-20	1				X	
	↓					24-25	1				X	
	1/21					BH-6 (A-1) 0-1	1				X	
						2-3	1				X	
	↓		↓		↓	4-5	1				X	

ANALYSIS REQUEST (Circle or Specify Method No.)

BTEX 8021B	TPH 8015 MOD. TX1005 (Ext. to C35)	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
	X											X				
												X				
												X				
												X				
												X				
												X				
												X				
												X				
												X				
												X				

RELINQUISHED BY: (Signature) — Date: 1/22/16 Time: 1315 — RECEIVED BY: (Signature) — Date: 1/22/16 Time: 1315
RELINQUISHED BY: (Signature) — Date: 1/22/16 Time: 1405 — RECEIVED BY: (Signature) — Date: 1/22/16 Time: 1405
RELINQUISHED BY: (Signature) — Date: Time: — RECEIVED BY: (Signature) — Date: Time:

SAMPLED BY: (Print & Initial) — Date: 1/20/16 Time:

SAMPLE SHIPPED BY: (Circle)
FEDEX BUS
HAND DELIVERED UPS
AIRBILL #:
OTHER:

TETRA TECH CONTACT PERSON:

Results by:

RUSH Charges Authorized: Yes No

RECEIVING LABORATORY:
ADDRESS:
CITY: STATE: ZIP:
CONTACT: PHONE:
RECEIVED BY: (Signature)
DATE: TIME:

SAMPLE CONDITION WHEN RECEIVED: 1.8°C

REMARKS:

Please fill out all copies - Laboratory retains Yellow copy - Return Orginal copy to Tetra Tech - Project Manager retains Pink copy - Accounting receives Gold copy.

Analysis Request of Chain of Custody Record

PAGE: 5 OF: 8

TETRA TECH
1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

523500

CLIENT NAME: Globe Energy
SITE MANAGER: Ike Tavarez
PROJECT NO.: 212C-MD-00374
PROJECT NAME: Globe Eunice Yard

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8021B	TPH 8015 MOD.	TX1005 (Ext. to C35)	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
	2016					Lea Co NM																								
	1/21		S		X	BH-6 (AH-1) 6-7	1				X														X					
						9-10	1				X														X					
						14-15	1				X														X					
						19-20	1				X														X					
						24-25	1				X														X					
						BH-7 (AH-1) 0-1	1				X														X					
						2-3	1				X														X					
						4-5	1				X														X					
						BH-8 (AH-1) 0-1	1				X		X												X					
						2-3	1				X		X												X					

RELINQUISHED BY: (Signature)	Date: 1/22/15 Time: 1315	RECEIVED BY: (Signature)	Date: 1/22/16 Time: 1315
RELINQUISHED BY: (Signature)	Date: 1/22/15 Time: 1405	RECEIVED BY: (Signature)	Date: 1/22/16 Time: 1405
RELINQUISHED BY: (Signature)	Date: Time:	RECEIVED BY: (Signature)	Date: Time:

SAMPLED BY: (Print & Initial) CG Date: 1/21/16 Time:

SAMPLE SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS

AIRBILL #:

OTHER:

RECEIVING LABORATORY:
ADDRESS:
CITY: STATE: ZIP:
CONTACT: PHONE:
RECEIVED BY: (Signature)
DATE: TIME:

TETRA TECH CONTACT PERSON:

Results by:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 1.8°C

REMARKS:

Please fill out all copies - Laboratory retains Yellow copy - Return Orginal copy to Tetra Tech - Project Manager retains Pink copy - Accounting receives Gold copy.

Analysis Request of Chain of Custody Record

TETRA TECH
1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

523500

PAGE: 2 OF: 8

CLIENT NAME: Globe Energy
SITE MANAGER: Ike Tavarez
PROJECT NO.: 212C-MD-00374
PROJECT NAME: Globe Eunice Yard

LAB I.D. NUMBER	DATE 2016	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION Loa Co NM	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE
	1/21		S		X	BH-8 (AH-15) 4-5	1				X	
						6-7	1				X	
						9-10	1				X	
						BH-9 0-1 (AH-19 & AH-20)	1				X	
						2-3	1				X	
						4-5	1				X	
						6-7	1				X	
						9-10	1				X	
						BH-10 (AH-17) 0-1	1				X	
						2-3	1				X	

ANALYSIS REQUEST (Circle or Specify Method No.)

BTEX 8021B; TPH TX1005 (Ext. to C35); TPH 8015 MOD; PAH 8270; RCRA Metals Ag As Ba Cd Cr Pb Hg Se; TCLP Metals Ag As Ba Cd Vr Pd Hg Se; TCLP Volatiles; TCLP Semi Volatiles; RCI; GC.MS Vol. 8240/8260/624; GC.MS Semi. Vol. 8270/625; PCB's 8080/608; Pest. 808/608; Chloride; Gamma Spec.; Alpha Beta (Air); PLM (Asbestos); Major Anions/Cations, pH, TDS

RELINQUISHED BY: (Signature)	Date: 1/22/16 Time: 1315	RECEIVED BY: (Signature)	Date: 1/22/16 Time: 1315
RELINQUISHED BY: (Signature)	Date: 1/22/16 Time: 1405	RECEIVED BY: (Signature)	Date: 1/22/16 Time: 1405
RELINQUISHED BY: (Signature)	Date: Time:	RECEIVED BY: (Signature)	Date: Time:
RECEIVING LABORATORY: ADDRESS: CITY: STATE: ZIP: CONTACT: PHONE:		RECEIVED BY: (Signature) DATE: TIME:	
SAMPLE CONDITION WHEN RECEIVED: 1.8°C	REMARKS:		

SAMPLED BY: (Print & Initial) CB Date: 1/21/16 Time:
SAMPLE SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS
AIRBILL #: OTHER:
TETRA TECH CONTACT PERSON:
Results by:
RUSH Charges Authorized: Yes No

Please fill out all copies - Laboratory retains Yellow copy - Return Orginal copy to Tetra Tech - Project Manager retains Pink copy - Accounting receives Gold copy.

Analysis Request of Chain of Custody Record

TETRA TECH
1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

523500

CLIENT NAME: Globe Energy
SITE MANAGER: Ike Tavarez
PROJECT NO.: 212C-MD-00374
PROJECT NAME: Globe Eunice Yard

LAB I.D. NUMBER	DATE 2016	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE
						Lea Co NM						
	1/21		S		X	BH-10 (AH-1) 4-5	1				X	
						6-7	1				X	
						9-10	1				X	
						14-15	1				X	
						19-20	1				X	
						24-25	1				X	
						BH-11 (AH-2) 0-1	1				X	
						2-3	1				X	
						4-5	1				X	
						6-7	1				X	

ANALYSIS REQUEST (Circle or Specify Method No.)

BTEX 8021B	TPH 8015 MOD. TX1005 (Ext. to C35)	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
												X				
												X				
												X				
												X				
												X				
												X				
												X				
												X				
												X				

RELINQUISHED BY: (Signature) Date: 1/22/16 Time: 1315
RECEIVED BY: (Signature) Date: 1/22/16 Time: 1315
RELINQUISHED BY: (Signature) Date: 1/22/16 Time: 1405
RECEIVED BY: (Signature) Date: 1/22/16 Time: 1405
RELINQUISHED BY: (Signature) Date: Time:
RECEIVED BY: (Signature) Date: Time:

SAMPLED BY: (Print & Initial) CG Date: 1/21/16 Time:
SAMPLE SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS
AIRBILL #:
OTHER:

RECEIVING LABORATORY:
ADDRESS:
CITY: STATE: ZIP:
CONTACT: PHONE:
RECEIVED BY: (Signature)
DATE: TIME:

TETRA TECH CONTACT PERSON:
Results by:
RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 1.8°C
REMARKS:

Please fill out all copies - Laboratory retains Yellow copy - Return Orginal copy to Tetra Tech - Project Manager retains Pink copy - Accounting receives Gold copy.

Analysis Request of Chain of Custody Record

TETRA TECH
1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

523500

PAGE: 3 OF 3

CLIENT NAME: Globe Energy
SITE MANAGER: Ike Tavarez
PROJECT NO.: 212C-MD-00374
PROJECT NAME: Globe Eunice Yard

LAB I.D. NUMBER	DATE 2016	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8021B	TPH 8015 MOD / TX1005 (Ext. to C35)	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
	1/21		S		X	BH-11 (AH-21) 9-10	1				X													X				
						14-15	1				X													X				
						19-20	1				X													X				
						BH-12 (AH-22) 0-1	1				X			X															
						2-3	1				X			X															
						4-5	1				X																	
						6-7	1				X																	
			V		X	9-10	1				X																	

ANALYSIS REQUEST
(Circle or Specify Method No.)

RELINQUISHED BY: (Signature)	Date: 1/22/16	RECEIVED BY: (Signature)	Date: 1/22/16
	Time: 1315		Time: 1315
RELINQUISHED BY: (Signature)	Date: 1/22/16	RECEIVED BY: (Signature)	Date: 1/22/16
	Time: 1405		Time: 1405
RELINQUISHED BY: (Signature)	Date:	RECEIVED BY: (Signature)	Date:
	Time:		Time:

SAMPLED BY: (Print & Initial) CG — Date: 1/21/16 — Time:

SAMPLE SHIPPED BY: (Circle)
FEDEX BUS
HAND DELIVERED UPS

AIRBILL #:
OTHER:

RECEIVING LABORATORY:
ADDRESS:
CITY: STATE: ZIP:
CONTACT: PHONE:

RECEIVED BY: (Signature)
DATE: TIME:

TETRA TECH CONTACT PERSON:

Results by:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 1.8 °C

REMARKS:

Please fill out all copies - Laboratory retains Yellow copy - Return Orginal copy to Tetra Tech - Project Manager retains Pink copy - Accounting receives Gold copy.

XENCO Laboratories
Prelogin/Nonconformance Report- Sample Log-In

Client: Tetra Tech- Midland

Date/ Time Received: 01/22/2016 02:05:00 PM

Work Order #: 523500

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

Temperature Measuring device used : r8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	1.8
#2 *Shipping container in good condition?	**Yes**
#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?	**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)?	**No**
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	**N/A**
#21 <2 for all samples preserved with HNO3,HCL, H2SO4? Except for samples for the analysis of HEM or HEM-SGT which are verified by the analysts.	**N/A**
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+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: Carley Owens Date: 01/25/2016

Carley Owens

Checklist reviewed by: Kelsey Brooks Date: 01/25/2016

Kelsey Brooks