REMEDIATION SUMMARY AND

SITE CLOSURE REQUEST

ETC FIELD SERVICES, LLC
A-14 Compressor Station Field Scrubber Release
Lea County, New Mexico
UNIT LTR "I", Section 6, Township 24 South, Range 35 East, NMPM
Latitude 32° 14' 46.26" North, Longitude 103° 24' 7.2" West
NMOCD Reference # 1RP-4634

APPROVED
By Olivia Yu at 2:08 pm, Dec 19, 2017

NMOCD approves 1RP-4634 for closure.

Prepared For:

ETC Field Services, LLC
800 East Sonterra
San Antonio, Texas 78258

Prepared By:

TRC Environmental Corporation
2057 Commerce
Midland, Texas 79703

October 2017

Nikki Green
Project Manager

Jeffrey Kindley, P.G.
Senior Project Manager

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INTRODUCTION

TRC Environmental Corporation (TRC), on behalf of ETC Field Services, LLC (ETC), has prepared this Remediation Summary and Site Closure Request for the Release Site known as A-14 Compressor Station Field Scrubber. The legal description of the Release Site is Unit Letter "I", Section 6, Township 24 South, Range 35 East, in Lea County, New Mexico. The subject property is administered by the United States Bureau of Land Management (BLM). The GPS coordinates for the site are N 32° 14' 46.26" W 103° 24' 7.2". Please reference Figure 1 for the Site Location Map, and Figure 4 for the Site Details and Confirmation Soil Sample Location Map. The Release Notification and Corrective Action (Form C-141) is provided as Appendix D.

On February 23, 2017, ETC discovered a crude oil and produced water release had occurred from the field scrubber due to a tubing failure. The released fluid flowed from the release point to the south and west in an open pasture and impacted an area measuring approximately three thousand (3,000) square feet. The release was reported to the New Mexico Oil Conservation Division (NMOCD) on March 3, 2017. During initial response activities, ETC replaced the tubing associated with the field scrubber to mitigate the release. Less than five (5) barrels of fluid was released from the field scrubber, with no recovery. General photographs of the site are provided as Appendix B.

NMOCD SITE CLASSIFICATION

A groundwater database maintained by The New Mexico Office of the State Engineer (NMOSE) did not identify any registered water wells in Section 6, Township 24 South, Range 35 East. A reference map utilized by the NMOCD Hobbs District Office, indicates groundwater should be encountered at approximately two hundred and twenty-five (225) feet below ground surface (bgs). Based on the NMOCD site classification system, zero (0) points will be assigned to the A-14 Compressor Station Field Scrubber Release Site as a result of this criterion.

No water wells were observed within one-thousand (1,000) feet of the Release Site. Based on the NMOCD site classification system, zero (0) points will be assigned to the subject area ranking as a result of this criterion.

No surface water was observed within one thousand (1,000) feet of the release. Based on the NMOCD site classification system, zero (0) points will be assigned to the subject area ranking as a result of this criterion.

The NMOCD guidelines indicate the A-14 Compressor Station Field Scrubber Release Site has a ranking score of zero (0). Based on this score, the soil remediation levels for a site with a ranking score of zero (0) points are as follows:

- Benzene – 10 mg/Kg (ppm)
- Benzene, toluene, ethylbenzene, and xylenes (BTEX) – 50 mg/Kg (ppm)
- TPH – 5,000 mg/Kg (ppm)
- Chloride – 600 mg/Kg (ppm)

SUMMARY OF SOIL REMEDIATION ACTIVITIES

On March 6, 2017, a representative of ETC submitted the "Proposed Delineation Workplan" for NMOCD and BLM consideration. The "Proposed Delineation Workplan" summarized the delineation activities strategy designed to progress the Release Site toward an NMOCD approved closure status. ETC received written approval from the NMOCD to proceed with the activities outlined in the "Proposed Delineation Workplan".

On March 21 and 22, 2017, due to safety concerns and the potential of striking underground piping and associated equipment within the vicinity of the A-14 Compressor Station, ETC utilized a hydro-vac prior to conducting any field sampling activities to identify the location of underground pipelines and other associated subsurface equipment.

On March 23, 2017, TRC, on behalf of ETC, utilized a hand auger to collect ten (10) delineation soil samples (FS-1 6" through FS-5 6" and FS-1 1' through FS-5 1') from the stained surface soil. The soil samples were submitted to Xenco Laboratories in Midland, Texas for determination of concentrations of BTEX using Method SW 846-8021B, TPH using Method SW 846-8015M, and chloride using Method E-300.1. The analytical results indicated benzene and BTEX concentrations were less than the applicable laboratory Method Detection Limit (MDL), with the exception of soil samples FS-1 6", FS-3 6", and FS-3 1', which exhibited BTEX concentrations of 0.00480 mg/Kg, 0.2959 mg/Kg, and 0.2374 mg/Kg, respectively. The collected soil samples exhibited benzene and BTEX concentrations below NMOCD regulatory guidelines. The laboratory results indicated TPH concentrations ranged from 574.0 mg/Kg for soil sample FS-1 1' to 27,290 mg/Kg for soil sample FS-3 1'. A review of laboratory analytical results indicated soil samples FS-2 6", FS-3 6", FS-3 1', and FS-5 1' exhibited TPH concentrations above NMOCD regulatory guidelines. Chloride concentrations ranged from less than the applicable laboratory MDL for soil samples FS-4 6" and FS-4 1' to 7,910 mg/Kg for soil sample FS-1 6". A review of laboratory analytical results indicated soil samples FS-1 6" through FS-3 6" and FS-1 1' through FS-3 1' exhibited chloride concentrations above NMOCD regulatory guidelines. Table 1 summarizes the Concentrations of Benzene, BTEX, TPH, and Chloride in Soil. Analytical reports are provided as Appendix A. Please refer to Figure 3 for the Site Details and Soil Sample Locations Map for soil sample locations.

In addition to the soil samples described above, seven (7) soil samples (WFS-1 1', EFS-1 1', SFS-1 1', NFS-2 1', SFS-2 1', SFS-3 1', and NFS-3 1') were collected utilizing a hand auger approximately five (5) feet from the outer perimeter of the stained surface soil and submitted for BTEX, TPH, and chloride analysis. The analytical results indicated benzene and BTEX concentrations were less than the applicable laboratory MDL and NMOCD regulatory guidelines. TPH concentrations ranged from 16.7 mg/Kg for soil sample EFS-1 1' to 1,283 mg/Kg for soil sample NFS-3 1'. A review of laboratory results indicated TPH concentrations were below NMOCD regulatory guidelines for the submitted soil samples. Chloride concentrations ranged from less than the applicable laboratory MDL for soil samples SFS-1 1' and NFS-3 1' to 108 mg/Kg for soil sample SFS-3 1'. A review of laboratory analytical results indicated chloride concentrations were below NMOCD regulatory guidelines for the submitted samples.

In addition, one background sample (BG-1 1') was collected, utilizing a hand auger, approximately fifty (50) feet north of the A-14 Compressor Station and submitted to the laboratory for TPH, BTEX, and chloride analysis. A review of laboratory analytical results indicated benzene, BTEX, TPH, and chloride concentrations were less than laboratory applicable MDL. Please refer

to Figure 2 for the Site Details and Soil Sample Location Map for the background soil sample location.

On April 17, 2017, TRC conducted additional vertical delineation activities utilizing a hand auger. During the sampling event, hand auger refusal was encountered at a depth ranging from approximately one (1) foot to sixteen (16) inches bgs. Three (3) soil samples (FS-3 16", FS-5a 1', and FS-5a 16") were collected from the stained surface soil and submitted to the laboratory for BTEX and TPH analysis. The analytical results indicated benzene concentrations were below the applicable laboratory MDL and NMOCD regulatory guidelines. BTEX concentrations ranged from 0.00389 mg/Kg for soil sample FS-5a 1' to 0.02233 mg/Kg for soil sample FS-3 16". A review of laboratory analytical results indicated BTEX concentrations were below NMOCD regulatory guidelines. TPH concentrations ranged from 1,690.8 mg/Kg for soil sample FS-3 16" to 3,550 mg/Kg for soil sample FS-5a 1'. A review of laboratory analytical results indicated TPH concentrations were below NMOCD regulatory guidelines for the collected samples. In addition, soil samples FS-5a 1' and FS-5a 16" were submitted for chloride analysis. A review of laboratory analytical results indicated chloride concentrations were less than the applicable laboratory MDL for the submitted soil samples and below NMOCD regulatory guidelines.

On May 10, 2017, TRC conducted additional vertical delineation activities at the Release Site. Utilizing a backhoe, three (3) vertical trenches were advanced to approximately four (4) feet bgs. Three (3) soil samples (FS-1a 4', FS-2a 4', and FS-3a 4') were collected and submitted to the laboratory for BTEX, TPH, and chloride analysis. A review of laboratory analytical results indicated benzene and BTEX concentrations were less than the applicable laboratory MDL and below NMOCD regulatory guidelines. TPH concentrations ranged from 15.0 mg/Kg for soil sample FS-3a 4' to 23.6 mg/Kg for soil sample FS-1a 4'. A review of laboratory analytical results indicated TPH concentrations were below NMOCD regulatory guidelines. Chloride concentrations ranged from 22.8 mg/Kg for soil sample FS-3a 4' to 478 mg/Kg for soil sample FS-1a 4'. A review of laboratory analytical results indicate TPH concentrations were below NMOCD regulatory guidelines.

In addition, the three (3) vertical trenches were advanced to nine (9) feet bgs to confirm chloride concentrations remained below NMOCD regulatory guidelines. Three (3) soil samples (FS-1a 9', FS-2a 9', and FS-3a 9') were collected and submitted to the laboratory for chloride analysis. A review of laboratory analytical results indicated chloride concentrations ranged from 27.0 mg/Kg for soil sample FS-2a 9' to 162 mg/Kg for soil sample FS-1a 9' indicating chloride concentrations remained below NMOCD regulatory guidelines an additional five (5) feet below soil samples FS-1a 4', FS-2a 4', and FS-3a 4'.

A Kinder Morgan high pressure (1,000 psi) natural gas pipeline, heading in a northwest to southeast direction, bisects the area represented by soil samples FS-4 and FS-5. Due to safety concerns, heavy equipment (i.e. backhoe) was not permitted to break ground within a thirty-five (35) foot radius of the pipeline. For this reason, vertical trenches were not advanced in the areas represented by soil samples FS-4 and FS-5.

On June 1, 2017, a representative of ETC submitted the "Soil Investigation Summary and Proposed Remediation Workplan" (Workplan) for NMOCD consideration. The Workplan summarized remedial activities to date and detailed a closure strategy designed to progress the Release Site

toward an NMOCD approved closure status. On June 9, 2017, ETC received written (email) NMOCD approval to proceed with the activities outlined in the Workplan.

On June 13, 2017, TRC commenced excavation activities utilizing a backhoe from the release point heading west. Chloride field screening was utilized to guide the excavation activities. In the areas represented by soil samples by soil samples FS-4 and FS-5 were conducting utilizing a hydro-vac due to the close proximity of the High Pressure Kinder Morgan natural gas line. Excavated soil was stockpiled to the north of the excavation within the A-14 Compressor Station, pending final disposition of the soil.

On June 13, 14, and 15, 2017, twelve (12) soil samples (BH-1 4', SW-1 3', NW-1 3', BH-4 1', EW-1 3', BH-2 3', SW-2 2', NW-2 2', BH-5 1', BH-3 2', NW-3 1', and SW-3 1') were collected from the floor and side walls of the excavated area. The soil samples were submitted to the laboratory and analyzed for concentrations of BTEX using SW 846-8021B, TPH using EPA Method SW 846-8015M and chloride using EPA Method E 300.0. The laboratory analytical results indicated benzene and BTEX concentrations were less than the laboratory applicable MDL for all collected soil samples, with the exception of soil sample BH-4 1', which exhibited a BTEX concentration of 0.00511 mg/Kg. The analytical results indicated TPH concentrations were less than the laboratory MDL of 15 mg/Kg for all collected soil samples, with the exception of soil samples BH-4 1', BH-5 1', BH-3 2', and NW-3 1', which exhibited TPH concentrations of 315 mg/Kg, 26.3 mg/Kg, 37.3 mg/Kg, and 81.4 mg/Kg, respectively. In addition, analytical results indicated chloride concentrations ranged from 11.7 mg/Kg for soil sample BH-5 1' to 336 mg/Kg for soil sample EW-1 3'. A review of laboratory analytical results indicated all submitted soil samples were below NMOCD regulatory guidelines and no additional excavation activities were warranted. Table 1 summarizes the Concentrations of Benzene, BTEX, TPH, and Chloride in Soil. Analytical reports are provided as Appendix A. Please refer to Figure 4 Site Details and Confirmation Soil Sample Location Map for soil sample locations.

On July 11, 2017, one (1) soil sample (KM-1 3") was collected from the surface of the impacted area in the vicinity of the Kinder Morgan High Pressure Natural Gas Steel Line. The soil sample was submitted to the laboratory for BTEX, TPH, and chloride analysis. A review of laboratory analytical results indicated benzene and TPH concentrations were less than the applicable laboratory MDL and NMOCD regulatory guidelines. A review of laboratory analytical results indicated TPH concentrations were 6,690 mg/Kg and above NMOCD regulatory guidelines. A review of laboratory analytical results indicated the chloride concentration was 10.9 mg/Kg and below NMOCD regulatory guidelines.

On July 27, 2017, ETC submitted the Remediation Summary and Permission to Backfill Request for NMOCD and BLM approval. On August 7, 2017, ETC and TRC representatives met with a NMOCD representative to discuss remediation activities at the Release Site and received approval to backfill the excavated area, with the exception of the area in the vicinity of the Kinder Morgan High Pressure Natural Gas Pipeline, which required additional excavation activities.

On August 22, 2017, TRC commenced hand digging activities conducted in the vicinity of the Kinder Morgan High Pressure Natural Gas Steel Pipeline. The excavated area measured approximately twenty (20) feet in length, approximately ten (10) feet in width, and approximately six (6) inches in depth. One (1) confirmation soil sample (KM-1 @ 6") was collected from the excavated area and submitted to the laboratory for TPH analysis. A review of laboratory analytical

results indicated TPH concentrations were 3,319 mg/Kg and below NMOCD regulatory guidelines.

On September 6, 2017, ETC requested NMOCD and BLM approval to backfill the area in the vicinity of the Kinder Morgan High Pressure Natural Gas Pipeline with non-impacted, locally obtained "like" soil.

On September 8, 2017, BLM approved the "Remediation Summary and Permission to Backfill Request" and the backfill of the excavated area in the vicinity of the Kinder Morgan Pipeline.

On September 20 through 22, 2017, TRC began transporting the excavated soil to Sundance Services, Inc. in Eunice, New Mexico. Approximately two hundred and eighty (280) cubic yards of excavated soil was transported to the NMOCD approved facility. The Sundance Disposal Manifests are provided as Appendix C.

On September 27, 2017, NMOCD approved the backfill of the excavated area in the vicinity of the Kinder Morgan Pipeline.

On October 4, 2017, TRC commenced backfill activities at the Release Site. The excavation was backfilled with locally obtained topsoil and the impacted area was contoured to fit the surrounding topography. The backfilled area will be reseeded with vegetation approved by the BLM at a later date.

SITE CLOSURE REQUEST

ETC requests NMOCD grant Site Closure Status to the A-14 Compressor Station Field Scrubber (1RP-4634) incident.

LIMITATIONS

TRC has prepared this Remediation Summary and Site Closure Request to the best of its ability. No other warranty, expressed or implied, is made or intended.

TRC has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. TRC has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. TRC has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. TRC also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of ETC Field Services, LLC. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of TRC and/or ETC Field Services, LLC.

DISTRIBUTION

Copy 1: Olivia Yu
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division (District 1)
1625 French Drive
Hobbs, New Mexico 88240

Copy 2: Yolanda Jordan Jimenez
Carlsbad Field Office
United States Department of the Interior
Bureau of Land Management
620 E. Greene Street
Carlsbad, New Mexico 88220

Copy 3: Rose Slade
ETC Field Services, LLC
800 East Sonterra
San Antonio, Texas 78258

Copy 4: TRC Environmental Corporation
2057 Commerce Street
Midland, Texas 79703

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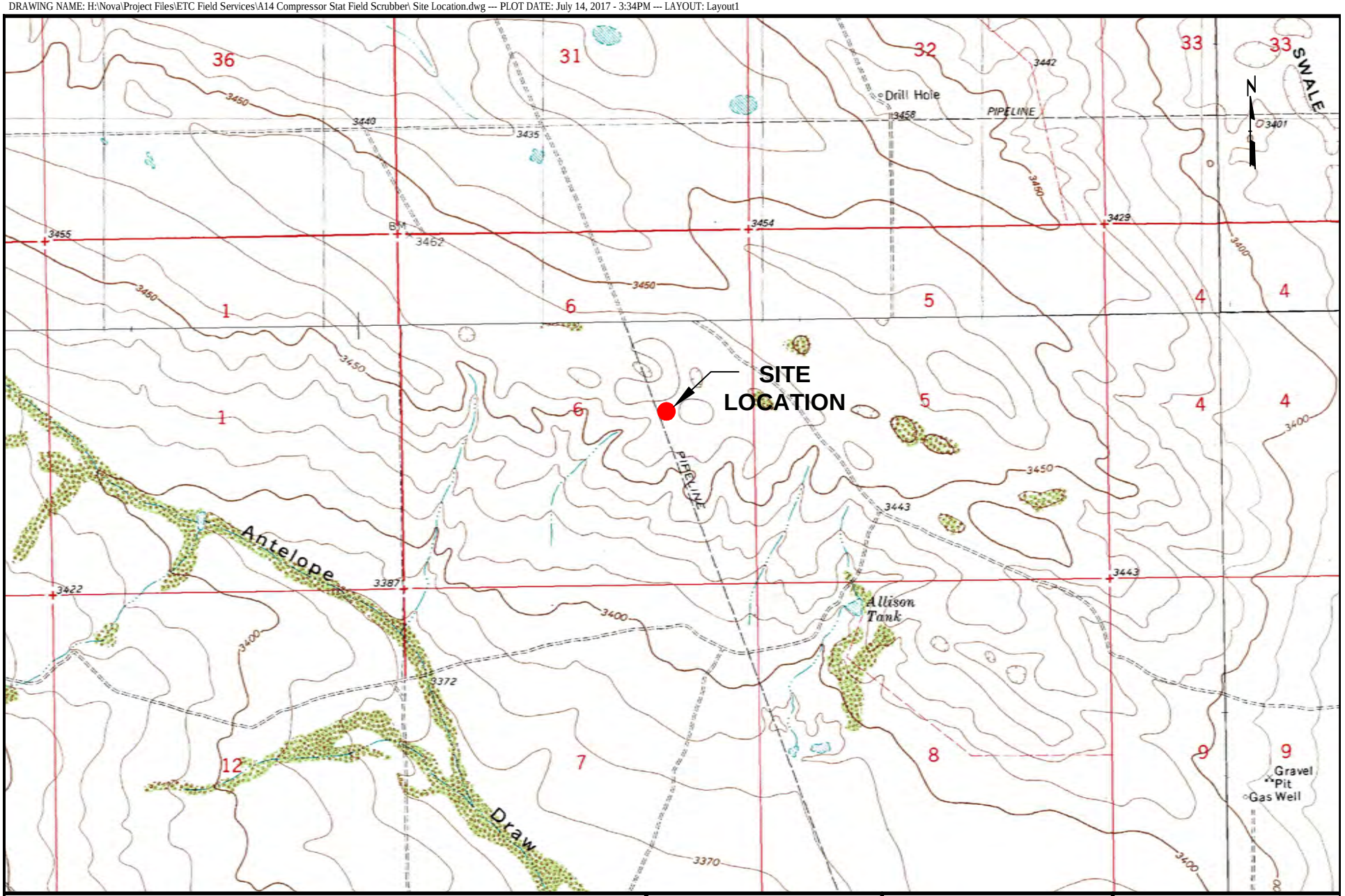


LEGEND:

2000 1000 0 1000 2000

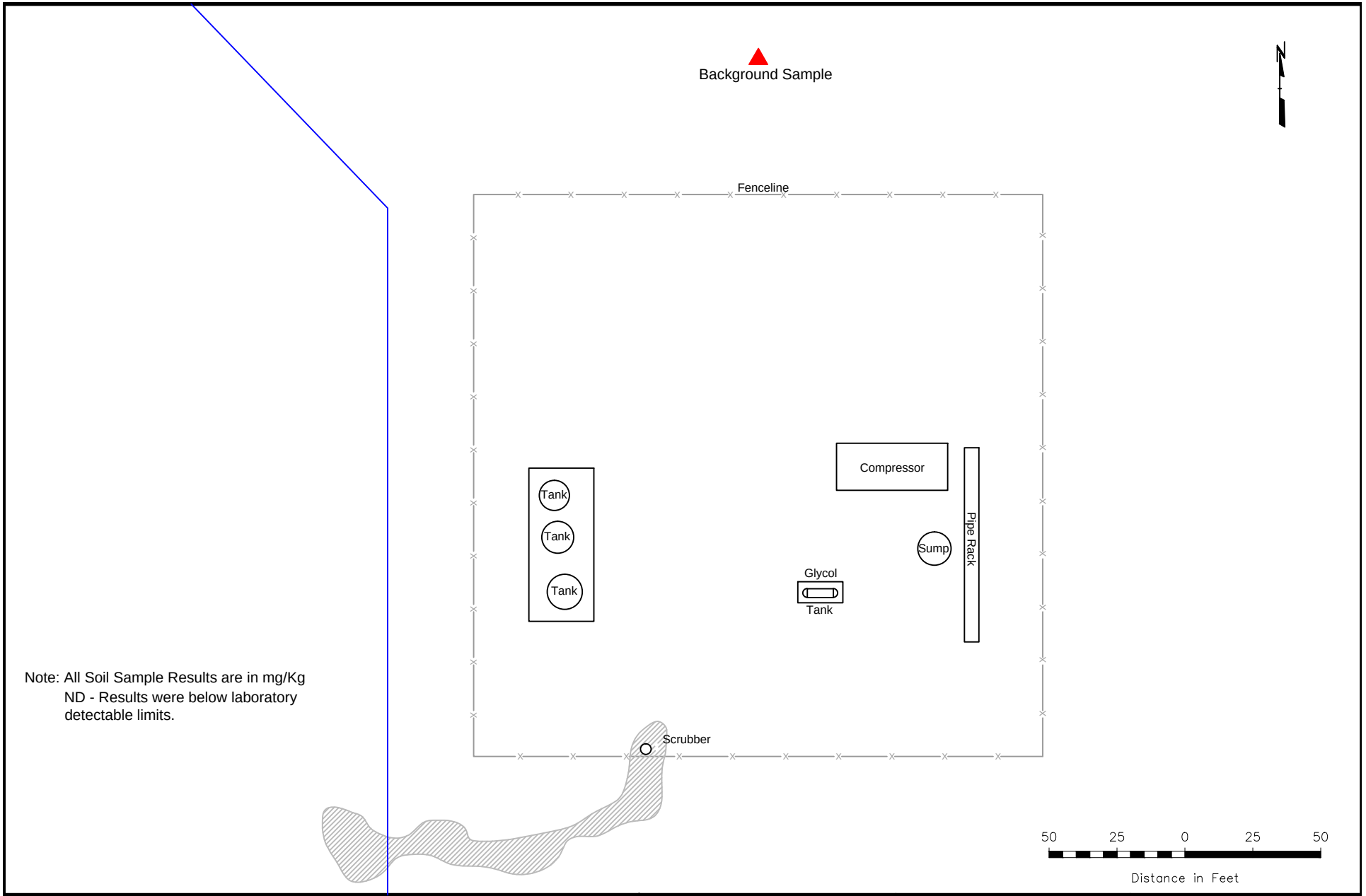
Distance in Feet

Figure 1
Site Location Map
ETC Field Services, LLC
A-14 Compressor Station
Field Scrubber
Lea County, NM

Scale: 1" = 2000'	
CAD By: TA	Checked By: CS
Draft: March 3, 2017	
Lat. N 32° 14' 46.26" , Long. W 103° 24' 7.2"	
SE1/4 NE1/4 Sec 6 T24S R35E	
TRC Proj. No.: 273817	

TRC
2057 Commerce Drive
Midland, Texas 79703
432.520.7720

DRAWING NAME: H:\Nova\Project Files\ETC Field Services\A14 Compressor Stat Field Scrubber\ Figure 2 Scrubber Leak.dwg --- PLOT DATE: July 14, 2017 - 3:12PM --- LAYOUT: Layout1



Note: All Soil Sample Results are in mg/Kg
ND - Results were below laboratory detectable limits.

LEGEND:

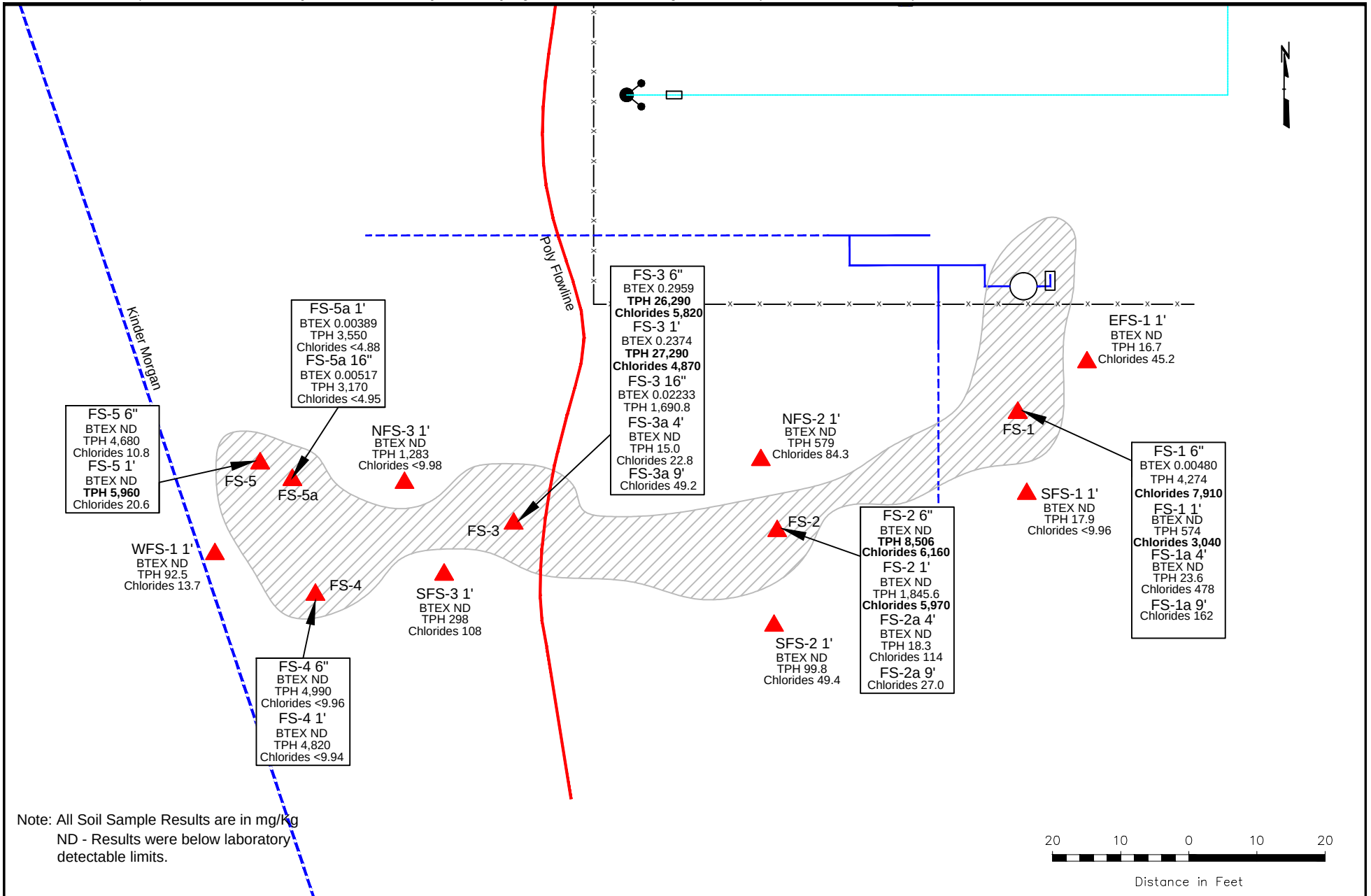
- Fence Line
- Soil Sample Location
- Pipeline

Figure 2
Site Detail and
Soil Sample Location Map
ETC Field Services, LLC
A-14 Compressor Station
Field Scrubber Release
Lea County, NM

Scale: 1" = 50'	
CAD By: TA	Checked By: NG
Draft: March 4, 2017	
Lat. N 32° 14' 46.26" , Long. W 103° 24' 7.2"	
SE1/4 NE1/4 Sec 6 T24S R35E	
TRC Proj. No.: 273817	

TRC
2057 Commerce Drive
Midland, Texas 79703
432.520.7720

DRAWING NAME: H:\Nova\Project Files\ETC Field Services\A14 Compressor Stat Field Scrubber\Maps CAD\New Maps\ Figure 3A Field Scrubber Release.dwg --- PLOT DATE: July 14, 2017 - 4:17PM --- LAYOUT: Layout1



Note: All Soil Sample Results are in mg/kg
ND - Results were below laboratory detectable limits.

LEGEND:

- Pipleline
- Electric
- Light Pole
- Fence
- Flowline
- Sidewall Soil Sample Location
- Floor Soil Sample Location

Figure 3
Site Detail and
Soil Sample Locations
ETC Field Services, LLC
A-14 Compressor Station
Field Scrubber Release
Lea County, NM

Scale: 1" = 20'	
CAD By: TA	Checked By: NG
Draft: April 4, 2017	
Lat. N 32° 14' 46.26" , Long. W 103° 24' 7.2"	
SE1/4 NE1/4 Sec 6 T24S R35E	
TRC Proj. No.: 273817	

TRC
2057 Commerce Drive
Midland, Texas 79703
432.520.7720

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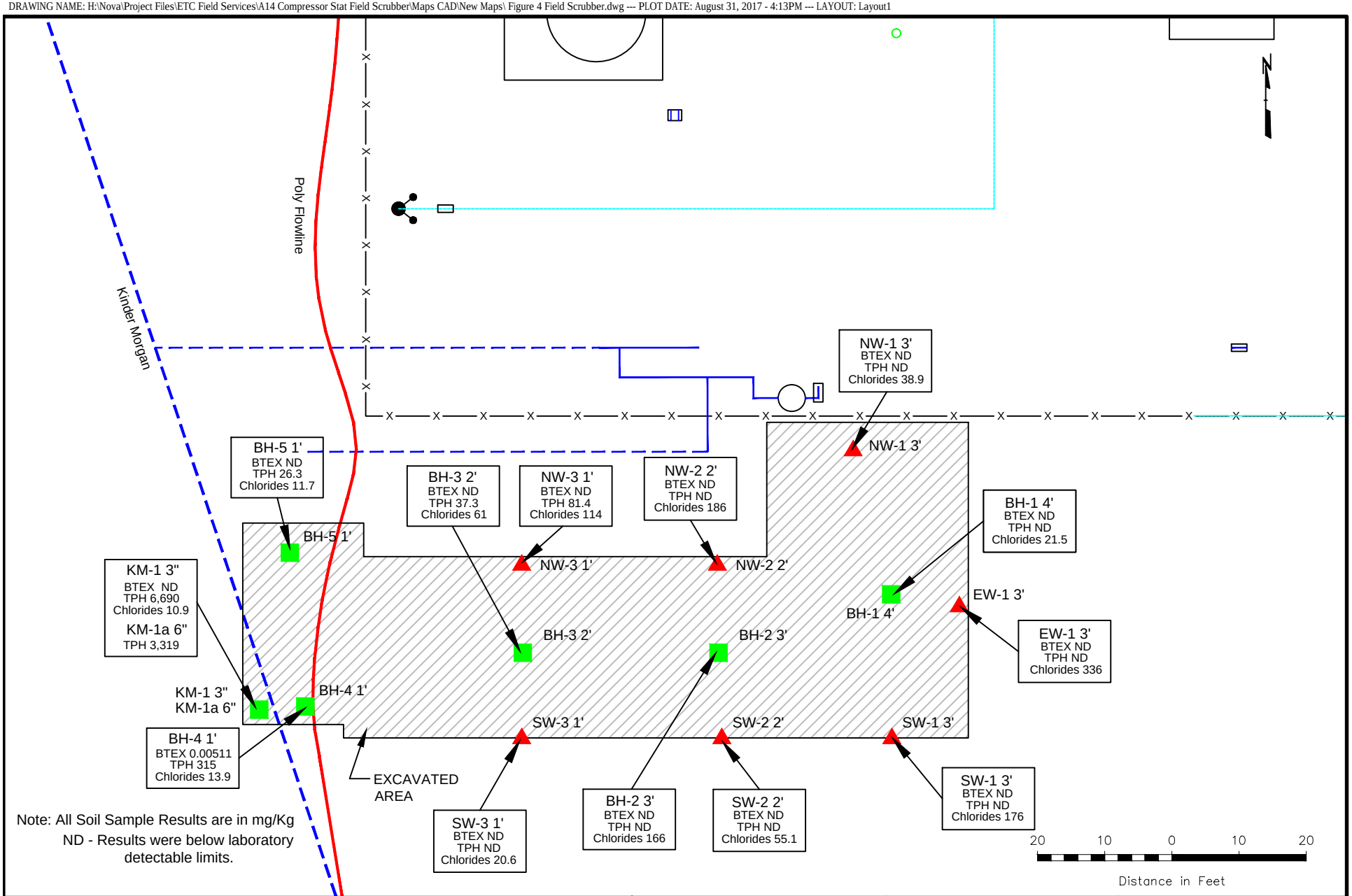

Note: All Soil Sample Results are in mg/Kg
ND - Results were below laboratory detectable limits.

LEGEND:

- Pipleline
- Electric
- Light Pole
- Fence
- Flowline
- Sidewall Soil Sample Location
- Floor Soil Sample Location

Figure 4
Site Detail and Confirmation Soil Sample Locations
ETC Field Services, LLC
A-14 Compressor Station
Field Scrubber
Lea County, NM

Scale: 1" = 20'	
CAD By: TA	Checked By: NG
Draft: April 4, 2017	
Lat. N 32° 14' 46.26" , Long. W 103° 24' 7.2"	
SE1/4 NE1/4 Sec 6 T24S R35E	
TRC Proj. No.: 273817	

TRC
2057 Commerce Drive
Midland, Texas 79703
432.520.7720

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL

ETC FIELD SERVICES, LLC
A-14 COMPRESSOR STATION FIELD SCRUBBER
LEA COUNTY, NEW MEXICO

All concentrations are reported in mg/Kg

SAMPLE LOCATION	SAMPLE DATE	SOIL STATUS	METHODS: SW 846-8021b						METHOD: SW 8015M				E 300.1
			BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE	TOTAL BTEX	TPH GRO C_6-C_{10}	TPH DRO C_{10}-C_{28}	TPH ORO C_{28}-C_{35}	TOTAL TPH C_6-C_{35}	CHLORIDE
NMOCD Site Classification Criteria			**10**					**50**				**5,000**	**600**
FS-1 6"	03/23/17	Trench	<0.00149	<0.00198	<0.00198	0.00480	<0.00297	0.00480	770	3,260	244	4,274	**7,910**
FS-1 1'	03/23/17	Trench	<0.00151	<0.00201	<0.00201	<0.00201	<0.00301	<0.00301	20.8	508	45.2	574.0	**3,040**
FS-2 6"	03/23/17	Trench	<0.00149	<0.00199	<0.00199	<0.00199	<0.00298	<0.00298	730	7,120	656	**8,506**	**6,160**
FS-2 1'	03/23/17	Trench	<0.00147	<0.00196	<0.00196	<0.00196	<0.00295	<0.00295	96.6	1,570	179	1,845.6	**5,970**
FS-3 6"	03/23/17	Trench	<0.00147	<0.00196	0.0209	0.146	0.129	0.2959	2,370	21,300	2,620	**26,290**	**5,820**
FS-3 1'	03/23/17	Trench	<0.00150	<0.00200	0.0144	0.119	0.104	0.2374	1,880	22,700	2,710	**27,290**	**4,870**
FS-4 6"	03/23/17	Trench	<0.00270	<0.00360	<0.00360	<0.00360	<0.00540	<0.00540	<15.0	1,730	3,260	4,990	<9.96
FS-4 1'	03/23/17	Trench	<0.00275	<0.00366	<0.00366	<0.00366	<0.00549	<0.00549	<15.0	1,640	3,180	4,820	<9.94
FS-5 6"	03/23/17	Trench	<0.00149	<0.00199	<0.00199	<0.00199	<0.00298	<0.00298	<15.0	1,590	3,090	4,680	10.8
FS-5 1'	03/23/17	Trench	<0.00148	<0.00197	<0.00197	<0.00197	<0.00296	<0.00296	<15.0	2,060	3,900	**5,960**	20.6
WFS-1 1'	03/23/17	Trench	<0.00267	<0.00356	<0.00356	<0.00356	<0.00534	<0.00534	<14.9	51.4	41.1	92.5	13.7
EFS-1 1'	03/23/17	Trench	<0.00254	<0.00339	<0.00339	<0.00339	<0.00508	<0.00508	<15.0	16.7	<15.0	16.7	45.2
SFS-1 1'	03/23/17	Trench	<0.00262	<0.00350	<0.00350	<0.00350	<0.00524	<0.00524	<15.0	17.9	<15.0	17.9	<9.96
NFS-2 1'	03/23/17	Trench	<0.00148	<0.00198	<0.00198	<0.00198	<0.00296	<0.00296	<15.0	448	131	579	84.3
SFS-2 1'	03/23/17	Trench	<0.00149	<0.00199	<0.00199	<0.00199	<0.00299	<0.00299	<15.0	99.8	<15.0	99.8	49.4
SFS-3 1'	03/23/17	Trench	<0.00151	<0.00201	<0.00201	<0.00201	<0.00301	<0.00301	<15.0	180	118	298	108
NFS-3 1'	03/23/17	Trench	<0.00152	<0.00202	<0.00202	<0.00202	<0.00303	<0.00303	<15.0	513	770	1,283	<9.98
FS-3 16"	04/17/17	Trench	<0.00149	0.00479	0.00728	0.00625	0.00401	0.02233	117	1,480	93.8	1,690.8	-
FS-5a 1'	04/17/17	Trench	<0.00151	<0.00201	<0.00201	0.00389	<0.00301	0.00389	<15.0	1,240	2,310	3,550	<4.88
FS-5a 16"	04/17/17	Trench	<0.00152	<0.00152	<0.00202	<0.00202	0.00517	0.00517	<15.0	1,110	2,060	3,170	<4.95
FS-1a 4'	05/10/17	Trench	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	<0.00402	<15.0	23.6	<15.0	23.6	478
FS-1a 9'	05/10/17	Trench	-	-	-	-	-	-	-	-	-	-	162
FS-2a 4'	05/10/17	Trench	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<15.0	18.3	<15.0	18.3	114
FS-2a 9'	05/10/17	Trench	-	-	-	-	-	-	-	-	-	-	27.0
FS-3a 4'	05/10/17	Trench	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	<0.00399	<14.9	15.0	<14.9	15.0	22.8
FS-3a 9'	05/10/17	Trench	-	-	-	-	-	-	-	-	-	-	49.2

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL

ETC FIELD SERVICES, LLC
A-14 COMPRESSOR STATION FIELD SCRUBBER
LEA COUNTY, NEW MEXICO

All concentrations are reported in mg/Kg

SAMPLE LOCATION	SAMPLE DATE	SOIL STATUS	METHODS: SW 846-8021b						METHOD: SW 8015M				E 300.1
			BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE	TOTAL BTEX	TPH GRO C_6-C_{10}	TPH DRO C_{10}-C_{28}	TPH ORO C_{28}-C_{35}	TOTAL TPH C_6-C_{35}	CHLORIDE
NMOCD Site Classification Criteria			**10**					**50**				**5,000**	**600**
BH-1 4'	06/13/17	In-Situ	<0.00200	<0.00200	<0.00200	<0.00401	<0.00200	<0.00401	<15.0	<15.0	<15.0	<15.0	21.5
SW-1 3'	06/13/17	In-Situ	<0.00205	<0.00205	<0.00205	<0.00410	<0.00205	<0.00410	<15.0	<15.0	<15.0	<15.0	176
NW-1 3'	06/13/17	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<15.0	<15.0	<15.0	<15.0	38.9
BH-4 1'	06/14/17	In-Situ	<0.00200	<0.00200	<0.00200	0.00511	<0.00200	0.00511	<15.0	128	187	315	13.9
EW-1 3'	06/13/17	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	<0.00402	<15.0	<15.0	<15.0	<15.0	336
BH-2 3'	06/14/17	In-Situ	<0.00200	<0.00200	<0.00200	<0.00401	<0.00200	<0.00401	<15.0	<15.0	<15.0	<15.0	166
SW-2 2'	06/14/17	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<15.0	<15.0	<15.0	<15.0	55.1
NW-2 2'	06/14/17	In-Situ	<0.00202	<0.00202	<0.00202	<0.00404	<0.00202	<0.00404	<15.0	<15.0	<15.0	<15.0	186
BH-5 1'	06/14/17	In-Situ	<0.00202	<0.00202	<0.00202	<0.00403	<0.00202	<0.00403	<15.0	26.3	<15.0	26.3	11.7
BH-3 2'	06/15/17	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<15.0	37.3	<15.0	37.3	61
NW-3 1'	06/15/17	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	<0.00402	<15.0	65.7	15.7	81.4	114
SW-3 1'	06/15/17	In-Situ	<0.00202	<0.00202	<0.00202	<0.00404	<0.00202	<0.00404	<15.0	<15.0	<15.0	<15.0	20.6
KM-1 3"	07/11/17	Excavated	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	<0.00399	<15.0	1,250	5,440	**6,690**	10.9
KM-1a 6"	08/22/17	In-Situ	-	-	-	-	-	-	<15.0	719	2,600	3,319	-
BG-1 1'	03/23/17	In-Situ	<0.00151	<0.00201	<0.00201	<0.00201	<0.00301	<0.00301	<15.0	<15.0	<15.0	<15.0	<9.96

Analytical Report 549417

for

TRC Solutions, Inc

Project Manager: Nikki Green

A14 Compressor Station Field Scrubber

TRC #273817

04-APR-17

Collected By: Client

1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215), 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)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

04-APR-17

Project Manager: **Nikki Green**
TRC Solutions, Inc
2057 Commerce
Midland, TX 79703

Reference: XENCO Report No(s): **549417**
A14 Compressor Station Field Scrubber
Project Address: Lea County, NM

Nikki Green:

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) 549417. 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. 549417 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 549417

TRC Solutions, Inc, Midland, TX

A14 Compressor Station Field Scrubber

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS-1 6"	S	03-23-17 13:25	- 6 In	549417-001
FS-1 1'	S	03-23-17 13:31	- 1 ft	549417-002
FS-2 6"	S	03-23-17 13:35	- 6 In	549417-003
FS-2 1'	S	03-23-17 13:42	- 1 ft	549417-004
FS-3 6"	S	03-23-17 13:47	- 6 In	549417-005
FS-3 1'	S	03-23-17 13:54	- 1 ft	549417-006
FS-4 6"	S	03-23-17 14:07	- 6 In	549417-007
FS-4 1'	S	03-23-17 14:20	- 1 ft	549417-008
FS-5 6"	S	03-23-17 14:28	- 6 In	549417-009
FS-5 1'	S	03-23-17 14:38	- 1 ft	549417-010
WFS-1 1'	S	03-23-17 14:48	- 1 ft	549417-011
EFS-1 1'	S	03-23-17 14:58	- 1 ft	549417-012
SFS-1 1'	S	03-23-17 15:09	- 1 ft	549417-013
NFS-2 1'	S	03-23-17 15:23	- 1 ft	549417-014
SFS-2 1'	S	03-23-17 15:37	- 1 ft	549417-015
SFS-3 1'	S	03-23-17 15:30	- 1 ft	549417-016
NFS-3 1'	S	03-23-17 16:10	- 1 ft	549417-017

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3013589 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3013602 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analysis Summary 549417

TRC Solutions, Inc, Midland, TX

Project Name: A14 Compressor Station Field Scrubber

Project Id: TRC #273817
Contact: Nikki Green
Project Location: Lea County, NM

Date Received in Lab: Fri Mar-24-17 02:55 pm
Report Date: 04-APR-17
Project Manager: Kelsey Brooks

Analysis Requested													
	Lab Id:	549417-001		549417-002		549417-003		549417-004		549417-005		549417-006	
	Field Id:	FS-1 6"		FS-1 1'		FS-2 6"		FS-2 1'		FS-3 6"		FS-3 1'	
	Depth:	6 In		1 ft		6 In		1 ft		6 In		1 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Mar-23-17 13:25		Mar-23-17 13:31		Mar-23-17 13:35		Mar-23-17 13:42		Mar-23-17 13:47		Mar-23-17 13:54	
BTEX by EPA 8021B	***Extracted:***	Mar-28-17 15:30		Mar-28-17 15:30		Mar-28-17 15:30		Mar-28-17 15:30		Mar-28-17 15:30		Mar-28-17 15:30	
	Analyzed:	Mar-28-17 18:38		Mar-28-17 18:54		Mar-28-17 19:10		Mar-28-17 19:26		Mar-28-17 19:42		Mar-28-17 19:59	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.00149	ND	0.00151	ND	0.00149	ND	0.00147	ND	0.00147	ND	0.00150
Toluene		ND	0.00198	ND	0.00201	ND	0.00199	ND	0.00196	ND	0.00196	ND	0.00200
Ethylbenzene		ND	0.00198	ND	0.00201	ND	0.00199	ND	0.00196	0.0209	0.00196	0.0144	0.00200
m_p-Xylenes		0.00480	0.00198	ND	0.00201	ND	0.00199	ND	0.00196	0.146	0.00196	0.119	0.00200
o-Xylene		ND	0.00297	ND	0.00301	ND	0.00298	ND	0.00295	0.129	0.00294	0.104	0.00299
Total Xylenes		0.00480	0.00198	ND	0.00201	ND	0.00199	ND	0.00196	0.275	0.00196	0.223	0.00200
Total BTEX		0.00480	0.00149	ND	0.00151	ND	0.00149	ND	0.00147	0.296	0.00147	0.237	0.00150
Chloride by EPA 300 **SUB: TX104704215**	***Extracted:***	Apr-01-17 13:54		Apr-01-17 13:54		Apr-01-17 13:54		Apr-01-17 13:54		Apr-01-17 13:54		Apr-01-17 13:54	
	Analyzed:	Apr-02-17 05:39		Apr-02-17 05:48		Apr-02-17 05:57		Apr-02-17 06:07		Apr-02-17 06:16		Apr-02-17 06:25	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		7910 D	99.8	3040 D	96.3	6160 D	98.8	5970 D	99.6	5820 D	99.6	4870 D	99.8
TPH By SW8015 Mod	***Extracted:***	Mar-24-17 17:00		Mar-24-17 17:00		Mar-24-17 17:00		Mar-24-17 17:00		Mar-24-17 17:00		Mar-24-17 17:00	
	Analyzed:	Mar-25-17 17:39		Mar-25-17 18:00		Mar-25-17 18:20		Mar-27-17 06:24		Mar-25-17 19:01		Mar-25-17 19:23	
	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		770	74.8	20.8	15.0	730	74.9	96.6	15.0	2370	74.9	1880	74.9
C10-C28 Diesel Range Organics		3260	74.8	508	15.0	7120	74.9	1570	15.0	21300	74.9	22700	74.9
C28-C35 Oil Range Hydrocarbons		244	74.8	45.2	15.0	656	74.9	179	15.0	2620	74.9	2710	74.9
Total TPH		4270	74.8	574	15.0	8510	74.9	1850	15.0	26300	74.9	27300	74.9

Certificate of Analysis Summary 549417

TRC Solutions, Inc, Midland, TX

Project Name: A14 Compressor Station Field Scrubber

Project Id: TRC #273817
Contact: Nikki Green
Project Location: Lea County, NM

Date Received in Lab: Fri Mar-24-17 02:55 pm
Report Date: 04-APR-17
Project Manager: Kelsey Brooks

Analysis Requested													
	Lab Id:	549417-007		549417-008		549417-009		549417-010		549417-011		549417-012	
	Field Id:	FS-4 6"		FS-4 1'		FS-5 6"		FS-5 1'		WFS-1 1'		EFS-1 1'	
	Depth:	6 In		1 ft		6 In		1 ft		1 ft		1 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Mar-23-17 14:07		Mar-23-17 14:20		Mar-23-17 14:28		Mar-23-17 14:38		Mar-23-17 14:48		Mar-23-17 14:58	
BTEX by EPA 8021B	***Extracted:***	Mar-28-17 16:50		Mar-28-17 16:50		Mar-28-17 15:30		Mar-28-17 15:30		Mar-28-17 16:50		Mar-28-17 16:50	
	Analyzed:	Mar-29-17 12:30		Mar-29-17 11:08		Mar-28-17 21:20		Mar-28-17 21:37		Mar-29-17 11:24		Mar-29-17 11:41	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.00270	ND	0.00275	ND	0.00149	ND	0.00148	ND	0.00267	ND	0.00254
Toluene		ND	0.00360	ND	0.00366	ND	0.00199	ND	0.00197	ND	0.00356	ND	0.00339
Ethylbenzene		ND	0.00360	ND	0.00366	ND	0.00199	ND	0.00197	ND	0.00356	ND	0.00339
m_p-Xylenes		ND	0.00360	ND	0.00366	ND	0.00199	ND	0.00197	ND	0.00356	ND	0.00339
o-Xylene		ND	0.00540	ND	0.00549	ND	0.00298	ND	0.00296	ND	0.00534	ND	0.00508
Total Xylenes		ND	0.00360	ND	0.00366	ND	0.00199	ND	0.00197	ND	0.00356	ND	0.00339
Total BTEX		ND	0.00270	ND	0.00275	ND	0.00149	ND	0.00148	ND	0.00267	ND	0.00254
Chloride by EPA 300 SUB: TX104704215	***Extracted:***	Apr-01-17 15:46		Apr-01-17 15:46		Apr-01-17 15:46		Apr-01-17 15:46		Apr-01-17 15:46		Apr-01-17 15:46	
	Analyzed:	Apr-02-17 16:20		Apr-02-17 16:48		Apr-02-17 16:57		Apr-02-17 17:07		Apr-02-17 17:16		Apr-02-17 17:44	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		ND	9.96	ND	9.94	10.8	9.92	20.6	9.88	13.7	9.98	45.2	9.77
TPH By SW8015 Mod	***Extracted:***	Mar-24-17 17:00		Mar-24-17 17:00		Mar-24-17 17:00		Mar-24-17 17:00		Mar-24-17 17:00		Mar-24-17 17:00	
	Analyzed:	Mar-25-17 19:44		Mar-25-17 20:03		Mar-25-17 20:25		Mar-25-17 20:46		Mar-25-17 21:48		Mar-25-17 22:11	
	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 Organics		1730	15.0	1640	15.0	1590	15.0	2060	15.0	51.4	14.9	16.7	15.0
C28-C35 Oil Range Hydrocarbons		3260	15.0	3180	15.0	3090	15.0	3900	15.0	41.1	14.9	ND	15.0
Total TPH		4990	15.0	4820	15.0	4680	15.0	5960	15.0	92.5	14.9	16.7	15.0

Certificate of Analysis Summary 549417

TRC Solutions, Inc, Midland, TX

Project Name: A14 Compressor Station Field Scrubber

Project Id: TRC #273817
Contact: Nikki Green
Project Location: Lea County, NM

Date Received in Lab: Fri Mar-24-17 02:55 pm
Report Date: 04-APR-17
Project Manager: Kelsey Brooks

Analysis Requested											
	Lab Id:	549417-013		549417-014		549417-015		549417-016		549417-017	
	Field Id:	SFS-1 1'		NFS-2 1'		SFS-2 1'		SFS-3 1'		NFS-3 1'	
	Depth:	1 ft		1 ft		1 ft		1 ft		1 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Mar-23-17 15:09		Mar-23-17 15:23		Mar-23-17 15:37		Mar-23-17 15:30		Mar-23-17 16:10	
BTEX by EPA 8021B	***Extracted:***	Mar-28-17 16:50		Mar-28-17 15:30		Mar-28-17 15:30		Mar-28-17 15:30		Mar-28-17 15:30	
	Analyzed:	Mar-29-17 11:57		Mar-28-17 22:42		Mar-28-17 22:59		Mar-28-17 23:15		Mar-28-17 23:31	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.00262	ND	0.00148	ND	0.00149	ND	0.00151	ND	0.00152
Toluene		ND	0.00350	ND	0.00198	ND	0.00199	ND	0.00201	ND	0.00202
Ethylbenzene		ND	0.00350	ND	0.00198	ND	0.00199	ND	0.00201	ND	0.00202
m_p-Xylenes		ND	0.00350	ND	0.00198	ND	0.00199	ND	0.00201	ND	0.00202
o-Xylene		ND	0.00524	ND	0.00296	ND	0.00299	ND	0.00301	ND	0.00303
Total Xylenes		ND	0.00350	ND	0.00198	ND	0.00199	ND	0.00201	ND	0.00202
Total BTEX		ND	0.00262	ND	0.00148	ND	0.00149	ND	0.00151	ND	0.00152
Chloride by EPA 300 SUB: TX104704215	***Extracted:***	Apr-01-17 15:46		Apr-01-17 15:46		Apr-01-17 15:46		Apr-01-17 15:46		Apr-01-17 15:46	
	Analyzed:	Apr-02-17 17:53		Apr-02-17 18:03		Apr-02-17 18:12		Apr-02-17 18:21		Apr-02-17 18:31	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		ND	9.96	84.3	9.88	49.4	9.92	108	10.0	ND	9.98
TPH By SW8015 Mod	***Extracted:***	Mar-24-17 17:00		Mar-24-17 17:00		Mar-24-17 17:00		Mar-24-17 17:00		Mar-24-17 17:00	
	Analyzed:	Mar-25-17 22:32		Mar-25-17 23:34		Mar-25-17 23:55		Mar-26-17 00:15		Mar-26-17 00:36	
	Units/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
C10-C28 Diesel Range Organics		17.9	15.0	448	15.0	99.8	15.0	180	15.0	513	15.0
C28-C35 Oil Range Hydrocarbons		ND	15.0	131	15.0	ND	15.0	118	15.0	770	15.0
Total TPH		17.9	15.0	579	15.0	99.8	15.0	298	15.0	1280	15.0

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: A14 Compressor Station Field Scrubber

Work Orders : 549417,

Project ID: TRC #273817

Lab Batch #: 3013500 **Sample:** 549417-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/17 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	93.2	99.7	93	70-135	
o-Terphenyl	43.8	49.9	88	70-135	

Lab Batch #: 3013500 **Sample:** 549417-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/17 18:00

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	88.7	99.7	89	70-135	
o-Terphenyl	44.7	49.9	90	70-135	

Lab Batch #: 3013500 **Sample:** 549417-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/17 18:20

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	38.6	50.0	77	70-135	

Lab Batch #: 3013500 **Sample:** 549417-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/17 19:01

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	106	99.9	106	70-135	
o-Terphenyl	48.9	50.0	98	70-135	

Lab Batch #: 3013500 **Sample:** 549417-006 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/17 19:23

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.9	99.9	95	70-135	
o-Terphenyl	64.7	50.0	129	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: A14 Compressor Station Field Scrubber

Work Orders : 549417,

Project ID: TRC #273817

Lab Batch #: 3013500 **Sample:** 549417-007 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/17 19:44

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.3	100	97	70-135	
o-Terphenyl	48.6	50.0	97	70-135	

Lab Batch #: 3013500 **Sample:** 549417-008 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/17 20:03

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	104	99.8	104	70-135	
o-Terphenyl	52.8	49.9	106	70-135	

Lab Batch #: 3013500 **Sample:** 549417-009 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/17 20:25

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	99.7	100	100	70-135	
o-Terphenyl	50.1	50.0	100	70-135	

Lab Batch #: 3013500 **Sample:** 549417-010 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/17 20:46

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	98.6	99.7	99	70-135	
o-Terphenyl	51.1	49.9	102	70-135	

Lab Batch #: 3013500 **Sample:** 549417-011 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/17 21:48

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	87.2	99.6	88	70-135	
o-Terphenyl	44.5	49.8	89	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: A14 Compressor Station Field Scrubber

Work Orders : 549417,

Project ID: TRC #273817

Lab Batch #: 3013500 **Sample:** 549417-012 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/17 22:11

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	99.7	83	70-135	
o-Terphenyl	41.8	49.9	84	70-135	

Lab Batch #: 3013500 **Sample:** 549417-013 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/17 22:32

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	99.9	87	70-135	
o-Terphenyl	44.4	50.0	89	70-135	

Lab Batch #: 3013500 **Sample:** 549417-014 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/17 23:34

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	95.6	99.8	96	70-135	
o-Terphenyl	48.2	49.9	97	70-135	

Lab Batch #: 3013500 **Sample:** 549417-015 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/17 23:55

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	102	99.8	102	70-135	
o-Terphenyl	51.8	49.9	104	70-135	

Lab Batch #: 3013500 **Sample:** 549417-016 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/26/17 00:15

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	90.5	99.8	91	70-135	
o-Terphenyl	45.9	49.9	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: A14 Compressor Station Field Scrubber

Work Orders : 549417,

Project ID: TRC #273817

Lab Batch #: 3013500 **Sample:** 549417-017 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/26/17 00:36

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.3	99.9	97	70-135	
o-Terphenyl	50.2	50.0	100	70-135	

Lab Batch #: 3013500 **Sample:** 549417-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/27/17 06:24

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.1	99.8	94	70-135	
o-Terphenyl	39.0	49.9	78	70-135	

Lab Batch #: 3013589 **Sample:** 549417-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/28/17 18:38

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0314	0.0300	105	80-120	
4-Bromofluorobenzene	0.0245	0.0300	82	80-120	

Lab Batch #: 3013589 **Sample:** 549417-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/28/17 18:54

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0322	0.0300	107	80-120	
4-Bromofluorobenzene	0.0284	0.0300	95	80-120	

Lab Batch #: 3013589 **Sample:** 549417-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/28/17 19:10

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0305	0.0300	102	80-120	
4-Bromofluorobenzene	0.0244	0.0300	81	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: A14 Compressor Station Field Scrubber

Work Orders : 549417,

Project ID: TRC #273817

Lab Batch #: 3013589 **Sample:** 549417-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/28/17 19:26

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	0.0262	0.0300	87	80-120	

Lab Batch #: 3013589 **Sample:** 549417-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/28/17 19:42

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0325	0.0300	108	80-120	
4-Bromofluorobenzene	0.0257	0.0300	86	80-120	

Lab Batch #: 3013589 **Sample:** 549417-006 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/28/17 19:59

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0324	0.0300	108	80-120	
4-Bromofluorobenzene	0.0240	0.0300	80	80-120	

Lab Batch #: 3013589 **Sample:** 549417-009 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/28/17 21:20

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0336	0.0300	112	80-120	
4-Bromofluorobenzene	0.0269	0.0300	90	80-120	

Lab Batch #: 3013589 **Sample:** 549417-010 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/28/17 21:37

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0337	0.0300	112	80-120	
4-Bromofluorobenzene	0.0316	0.0300	105	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: A14 Compressor Station Field Scrubber

Work Orders : 549417,

Project ID: TRC #273817

Lab Batch #: 3013589 **Sample:** 549417-014 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/28/17 22:42

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0334	0.0300	111	80-120	
4-Bromofluorobenzene	0.0318	0.0300	106	80-120	

Lab Batch #: 3013589 **Sample:** 549417-015 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/28/17 22:59

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0345	0.0300	115	80-120	
4-Bromofluorobenzene	0.0301	0.0300	100	80-120	

Lab Batch #: 3013589 **Sample:** 549417-016 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/28/17 23:15

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0342	0.0300	114	80-120	
4-Bromofluorobenzene	0.0267	0.0300	89	80-120	

Lab Batch #: 3013589 **Sample:** 549417-017 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/28/17 23:31

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0360	0.0300	120	80-120	
4-Bromofluorobenzene	0.0279	0.0300	93	80-120	

Lab Batch #: 3013602 **Sample:** 549417-008 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/29/17 11:08

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0271	0.0300	90	80-120	
4-Bromofluorobenzene	0.0337	0.0300	112	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: A14 Compressor Station Field Scrubber

Work Orders : 549417,

Project ID: TRC #273817

Lab Batch #: 3013602 **Sample:** 549417-011 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/29/17 11:24

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0340	0.0300	113	80-120	
4-Bromofluorobenzene	0.0282	0.0300	94	80-120	

Lab Batch #: 3013602 **Sample:** 549417-012 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/29/17 11:41

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0318	0.0300	106	80-120	
4-Bromofluorobenzene	0.0260	0.0300	87	80-120	

Lab Batch #: 3013602 **Sample:** 549417-013 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/29/17 11:57

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0351	0.0300	117	80-120	
4-Bromofluorobenzene	0.0292	0.0300	97	80-120	

Lab Batch #: 3013602 **Sample:** 549417-007 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/29/17 12:30

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0333	0.0300	111	80-120	
4-Bromofluorobenzene	0.0260	0.0300	87	80-120	

Lab Batch #: 3013500 **Sample:** 722213-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/25/17 16:38

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	102	100	102	70-135	
o-Terphenyl	51.7	50.0	103	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: A14 Compressor Station Field Scrubber

Work Orders : 549417,

Project ID: TRC #273817

Lab Batch #: 3013589 **Sample:** 722268-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/28/17 17:49

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0341	0.0300	114	80-120	
4-Bromofluorobenzene	0.0272	0.0300	91	80-120	

Lab Batch #: 3013602 **Sample:** 722269-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/29/17 01:42

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0280	0.0300	93	80-120	
4-Bromofluorobenzene	0.0293	0.0300	98	80-120	

Lab Batch #: 3013500 **Sample:** 722213-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/25/17 16:58

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.5	100	98	70-135	
o-Terphenyl	46.4	50.0	93	70-135	

Lab Batch #: 3013589 **Sample:** 722268-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/28/17 16:27

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0336	0.0300	112	80-120	
4-Bromofluorobenzene	0.0305	0.0300	102	80-120	

Lab Batch #: 3013602 **Sample:** 722269-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/29/17 00:20

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0341	0.0300	114	80-120	
4-Bromofluorobenzene	0.0273	0.0300	91	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: A14 Compressor Station Field Scrubber

Work Orders : 549417,

Project ID: TRC #273817

Lab Batch #: 3013500 **Sample:** 722213-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/25/17 17:19

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	100	98	70-135	
o-Terphenyl	47.0	50.0	94	70-135	

Lab Batch #: 3013589 **Sample:** 722268-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/28/17 16:43

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0330	0.0300	110	80-120	
4-Bromofluorobenzene	0.0308	0.0300	103	80-120	

Lab Batch #: 3013602 **Sample:** 722269-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/29/17 00:36

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	0.0265	0.0300	88	80-120	

Lab Batch #: 3013500 **Sample:** 549417-013 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/17 22:53

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.0	99.7	96	70-135	
o-Terphenyl	46.8	49.9	94	70-135	

Lab Batch #: 3013589 **Sample:** 549416-026 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/28/17 17:00

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0323	0.0300	108	80-120	
4-Bromofluorobenzene	0.0318	0.0300	106	80-120	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

Form 2 - Surrogate Recoveries

Project Name: A14 Compressor Station Field Scrubber

Work Orders : 549417,

Project ID: TRC #273817

Lab Batch #: 3013602 **Sample:** 549418-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/29/17 00:53

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0356	0.0300	119	80-120	
4-Bromofluorobenzene	0.0330	0.0300	110	80-120	

Lab Batch #: 3013500 **Sample:** 549417-013 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/17 23:14

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	99.7	88	70-135	
o-Terphenyl	41.6	49.9	83	70-135	

Lab Batch #: 3013589 **Sample:** 549416-026 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/28/17 17:16

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0345	0.0300	115	80-120	
4-Bromofluorobenzene	0.0300	0.0300	100	80-120	

Lab Batch #: 3013602 **Sample:** 549418-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/29/17 01:09

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	0.0317	0.0300	106	80-120	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: A14 Compressor Station Field Scrubber

Work Order #: 549417 **Project ID:** TRC #273817

Analyst: ALJ **Date Prepared:** 03/28/2017 **Date Analyzed:** 03/28/2017

Lab Batch ID: 3013589 **Sample:** 722268-1-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	<0.00150	0.100	0.107	107	0.0998	0.0921	92	15	70-130	35	
Toluene	<0.00200	0.100	0.112	112	0.0998	0.0993	99	12	70-130	35	
Ethylbenzene	<0.00200	0.100	0.118	118	0.0998	0.104	104	13	71-129	35	
m_p-Xylenes	<0.00200	0.200	0.228	114	0.200	0.200	100	13	70-135	35	
o-Xylene	<0.00301	0.100	0.119	119	0.0998	0.103	103	14	71-133	35	

Analyst: ALJ **Date Prepared:** 03/28/2017 **Date Analyzed:** 03/29/2017

Lab Batch ID: 3013602 **Sample:** 722269-1-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	<0.00149	0.0990	0.0886	89	0.100	0.0825	83	7	70-130	35	
Toluene	<0.00198	0.0990	0.0935	94	0.100	0.0856	86	9	70-130	35	
Ethylbenzene	<0.00198	0.0990	0.0942	95	0.100	0.0873	87	8	71-129	35	
m_p-Xylenes	<0.00198	0.198	0.183	92	0.201	0.171	85	7	70-135	35	
o-Xylene	<0.00297	0.0990	0.0965	97	0.100	0.0905	91	6	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

Version: 1.%

BS / BSD Recoveries

Project Name: A14 Compressor Station Field Scrubber

Work Order #: 549417 **Project ID:** TRC #273817

Analyst: ALA **Date Prepared:** 04/01/2017 **Date Analyzed:** 04/02/2017

Lab Batch ID: 3013926 **Sample:** 722476-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<1.00	10.0	10.1	101	10.0	10.1	101	0	80-120	20	

Analyst: ALA **Date Prepared:** 04/01/2017 **Date Analyzed:** 04/02/2017

Lab Batch ID: 3013961 **Sample:** 722491-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<1.00	10.0	9.75	98	10.0	9.99	100	2	80-120	20	

Analyst: ARM **Date Prepared:** 03/24/2017 **Date Analyzed:** 03/25/2017

Lab Batch ID: 3013500 **Sample:** 722213-1-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	918	92	1000	928	93	1	70-135	35	
C10-C28 Diesel Range Organics	<15.0	1000	931	93	1000	939	94	1	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

Version: 1.%

Form 3 - MS / MSD Recoveries

Project Name: A14 Compressor Station Field Scrubber

Work Order # : 549417 **Project ID:** TRC #273817

Lab Batch ID: 3013589 **QC- Sample ID:** 549416-026 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 03/28/2017 **Date Prepared:** 03/28/2017 **Analyst:** ALJ

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	<0.00150	0.0998	0.0874	88	0.0994	0.0811	82	7	70-130	35	
Toluene	<0.00200	0.0998	0.0879	88	0.0994	0.0795	80	10	70-130	35	
Ethylbenzene	<0.00200	0.0998	0.0853	85	0.0994	0.0723	73	16	71-129	35	
m_p-Xylenes	<0.00200	0.200	0.164	82	0.199	0.137	69	18	70-135	35	X
o-Xylene	<0.00299	0.0998	0.0903	90	0.0994	0.0744	75	19	71-133	35	

Lab Batch ID: 3013602 **QC- Sample ID:** 549418-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 03/29/2017 **Date Prepared:** 03/28/2017 **Analyst:** ALJ

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	<0.00151	0.100	0.0716	72	0.101	0.0798	79	11	70-130	35	
Toluene	<0.00201	0.100	0.0726	73	0.101	0.0815	81	12	70-130	35	
Ethylbenzene	<0.00201	0.100	0.0728	73	0.101	0.0819	81	12	71-129	35	
m_p-Xylenes	<0.00201	0.201	0.143	71	0.202	0.155	77	8	70-135	35	
o-Xylene	<0.00301	0.100	0.0713	71	0.101	0.0841	83	16	71-133	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.

Form 3 - MS / MSD Recoveries

Project Name: A14 Compressor Station Field Scrubber

Work Order # : 549417 **Project ID:** TRC #273817

Lab Batch ID: 3013926 **QC- Sample ID:** 549416-014 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 04/02/2017 **Date Prepared:** 04/01/2017 **Analyst:** ALA

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 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
Chloride	62.5	99.8	164	102	99.8	164	102	0	80-120	20	

Lab Batch ID: 3013926 **QC- Sample ID:** 549416-024 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 04/02/2017 **Date Prepared:** 04/01/2017 **Analyst:** ALA

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 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
Chloride	34.8	98.8	136	102	98.8	136	102	0	80-120	20	

Lab Batch ID: 3013961 **QC- Sample ID:** 549417-007 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 04/02/2017 **Date Prepared:** 04/01/2017 **Analyst:** ALA

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 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
Chloride	<9.96	99.6	103	103	99.6	103	103	0	80-120	20	

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: A14 Compressor Station Field Scrubber

Work Order # : 549417 **Project ID:** TRC #273817

Lab Batch ID: 3013961 **QC- Sample ID:** 549417-017 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 04/02/2017 **Date Prepared:** 04/01/2017 **Analyst:** ALA

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 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
Chloride	<9.98	99.8	106	106	99.8	106	106	0	80-120	20	

Lab Batch ID: 3013500 **QC- Sample ID:** 549417-013 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 03/25/2017 **Date Prepared:** 03/24/2017 **Analyst:** ARM

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	997	961	96	997	864	87	11	70-135	35	
C10-C28 Diesel Range Organics	17.9	997	958	94	997	862	85	11	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.

Xenco Laboratories

The Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

1 of 2

12600 West I-20 East
Odessa, Texas 79765

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

Project Manager: Nikki Green

Project Name: A14 Compressor Station Field Scrubber

Company Name: TRC Environmental Corporation

Project #: TRC #: 273817

Company Address: 2057 Commerce Drive

Project Loc: Lea County, NM

City/State/Zip: Midland, Texas 79703

PO #:

Telephone No: 432.520.7720

Fax No:

Report Format: [X] Standard [ ] TRRP [ ] NPDES

Sampler Signature: Nikki Green

e-mail: rose.slade@energytransfer.com
ngreen@trcsolutions.com

(lab use only)
ORDER #: 549417

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1 8015M	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021b/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides E 300.1	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
	FS-1 6"			3/23	1325		1	x								Soil	x								x			x		x
	FS-1 1'				1331		1	x								Soil	x								x			x		x
	FS-2 6"				1335		1	x								Soil	x								x			x		x
	FS-2 1'				1342		1	x								Soil	x								x			x		x
	FS-3 6"				1347		1	x								Soil	x								x			x		x
	FS-3 1'				1354		1	x								Soil	x								x			x		x
	FS-4 6"				~~1350~~ 1407		1	x								Soil	x								x			x		x
	FS-4 1'				1420		1	x								Soil	x								x			x		x
	FS-5 6"				1428		1	x								Soil	x								x			x		x
	FS-5 1'				1438		1	x								Soil	x								x			x		x
	WFS-1 1'				1448		1	x								Soil	x								x			x		x

Special Instructions:

Bill to Rose Slade at Energy Transfer.

Relinquished by:	Date	Time	Received by:	Date	Time
Nikki Green	3/24	1455	J CRAMER	3/24	1455
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered by Sampler/Client Rep. ?	Y	N
by Courier?		

Temp: IR ID:R-8
Temperature Up CF: +0.1 2.1
Corrected Temp: 2.2

Final 1.000

Xenco Laboratories

The Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST 2 of 2

12600 West I-20 East
Odessa, Texas 79765

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

Project Manager: Nikki Green

Project Name: A14 Compressor Station Field Scrubber

Company Name: TRC Environmental Corporation

Project #: TRC #: 273817

Company Address: 2057 Commerce Drive

Project Loc: Lea County, NM

City/State/Zip: Midland, Texas 79703

PO #:

Telephone No: 432.520.7720

Fax No:

Report Format: [X] Standard [ ] TRRP [ ] NPDES

Sampler Signature: Nikki Green

e-mail: rose.slade@energytransfer.com
ngreen@trcsolutions.com

Extended TAT

(lab use only)
ORDER #: 549417

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP: TOTAL: TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides E 300.1			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
	EFS-1 1'			3/23	1458		1	x								Soil	x								x			x				x
	SFS-1 1'				1509		1	x								Soil	x								x			x				x
	NFS-2 1'				1523		1	x								Soil	x								x			x				x
	SFS-2 1'				1537		1	x								Soil	x								x			x				x
	SFS-3 1'				1530		1	x								Soil	x								x			x				x
	NFS-3 1'				1610		1	x								Soil	x								x			x				x
							1	x								Soil	x								x			x				x
							1	x								Soil	x								x			x				x
							1	x								Soil	x								x			x				x
							1	x								Soil	x								x			x				x
							1	x								Soil	x								x			x				x

Special Instructions:

Bill to Rose Slade at Energy Transfer.

Relinquished by:	Date	Time	Received by:	Date	Time
Nikki Green	3/24/17	1455	KRAMER	3/24	1455
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered by Sampler/	Y	N
by Courier?	Y	N

Temperature U — Temp: 2.1 IR ID:R-8
CF: +0.1
Corrected Temp: 2.2

Final 1.000

XENCO Laboratories
Prelogin/Nonconformance Report- Sample Log-In

Client: TRC Solutions, Inc

Date/ Time Received: 03/24/2017 02:55:00 PM

Work Order #: 549417

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)?	2.2
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seal present on shipping container/ cooler?	**N/A**
#5 *Custody Seals intact on shipping container/ cooler?	**N/A**
#6 Custody Seals intact on sample bottles?	**N/A**
#7 *Custody Seals Signed and dated?	**N/A**
#8 *Chain of Custody present?	**Yes**
#9 Sample instructions complete on Chain of Custody?	**Yes**
#10 Any missing/extra samples?	**No**
#11 Chain of Custody signed when relinquished/ received?	**Yes**
#12 Chain of Custody agrees with sample label(s)?	**Yes**
#13 Container label(s) legible and intact?	**Yes**
#14 Sample matrix/ properties agree with Chain of Custody?	**Yes**
#15 Samples in proper container/ bottle?	**Yes**
#16 Samples properly preserved?	**Yes**
#17 Sample container(s) intact?	**Yes**
#18 Sufficient sample amount for indicated test(s)?	**Yes**
#19 All samples received within hold time?	**Yes**
#20 Subcontract of sample(s)?	**N/A**
#21 VOC samples have zero headspace?	**N/A**
#22 <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**
#23 >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: Jessica Kramer
Jessica Kramer
Date: 03/24/2017

Checklist reviewed by: Kelsey Brooks
Kelsey Brooks
Date: 03/27/2017

Analytical Report 549418

for

TRC Solutions, Inc

Project Manager: Nikki Green

A14 Compressor Station

03-APR-17

Collected By: Client

1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215), 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)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

03-APR-17

Project Manager: **Nikki Green**
TRC Solutions, Inc
2057 Commerce
Midland, TX 79703

Reference: XENCO Report No(s): **549418**
A14 Compressor Station
Project Address: Lea County, NM

Nikki Green:

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) 549418. 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. 549418 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 549418

TRC Solutions, Inc, Midland, TX

A14 Compressor Station

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BG-1 1'	S	03-23-17 16:45	- 1 ft	549418-001

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3013602 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analysis Summary 549418

TRC Solutions, Inc, Midland, TX

Project Name: A14 Compressor Station

Project Id:
Contact: Nikki Green
Project Location: Lea County, NM

Date Received in Lab: Fri Mar-24-17 02:55 pm
Report Date: 03-APR-17
Project Manager: Kelsey Brooks

Analysis Requested							
	Lab Id:	549418-001					
	Field Id:	BG-1 1'					
	Depth:	1 ft					
	Matrix:	SOIL					
	Sampled:	Mar-23-17 16:45					
BTEX by EPA 8021B	***Extracted:***	Mar-28-17 16:50					
	Analyzed:	Mar-29-17 01:58					
	Units/RL:	mg/kg RL					
Benzene		ND 0.00151					
Toluene		ND 0.00201					
Ethylbenzene		ND 0.00201					
m_p-Xylenes		ND 0.00201					
o-Xylene		ND 0.00301					
Total Xylenes		ND 0.00201					
Total BTEX		ND 0.00151					
Chloride by EPA 300 SUB: TX104704215	***Extracted:***	Apr-01-17 14:14					
	Analyzed:	Apr-02-17 11:11					
	Units/RL:	mg/kg RL					
Chloride		ND 9.96					
TPH By SW8015 Mod	***Extracted:***	Mar-24-17 17:00					
	Analyzed:	Mar-26-17 02:20					
	Units/RL:	mg/kg RL					
C6-C10 Gasoline Range Hydrocarbons		ND 15.0					
C10-C28 Diesel Range Organics		ND 15.0					
C28-C35 Oil 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

Form 2 - Surrogate Recoveries

Project Name: A14 Compressor Station

Work Orders : 549418,

Project ID:

Lab Batch #: 3013501 **Sample:** 549418-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/26/17 02:20

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	52.6	49.9	105	70-135	

Lab Batch #: 3013602 **Sample:** 549418-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/29/17 01:58

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0358	0.0300	119	80-120	
4-Bromofluorobenzene	0.0356	0.0300	119	80-120	

Lab Batch #: 3013501 **Sample:** 722214-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/26/17 01:18

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	102	100	102	70-135	
o-Terphenyl	52.7	50.0	105	70-135	

Lab Batch #: 3013602 **Sample:** 722269-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/29/17 01:42

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0280	0.0300	93	80-120	
4-Bromofluorobenzene	0.0293	0.0300	98	80-120	

Lab Batch #: 3013501 **Sample:** 722214-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/26/17 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	92.4	100	92	70-135	
o-Terphenyl	46.3	50.0	93	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: A14 Compressor Station

Work Orders : 549418,

Project ID:

Lab Batch #: 3013602 **Sample:** 722269-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/29/17 00:20

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0341	0.0300	114	80-120	
4-Bromofluorobenzene	0.0273	0.0300	91	80-120	

Lab Batch #: 3013501 **Sample:** 722214-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/26/17 02:00

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	101	100	101	70-135	
o-Terphenyl	50.8	50.0	102	70-135	

Lab Batch #: 3013602 **Sample:** 722269-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/29/17 00:36

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	0.0265	0.0300	88	80-120	

Lab Batch #: 3013501 **Sample:** 549418-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/26/17 02:41

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	99.9	97	70-135	
o-Terphenyl	48.2	50.0	96	70-135	

Lab Batch #: 3013602 **Sample:** 549418-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/29/17 00:53

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0356	0.0300	119	80-120	
4-Bromofluorobenzene	0.0330	0.0300	110	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: A14 Compressor Station

Work Orders : 549418,

Project ID:

Lab Batch #: 3013501 **Sample:** 549418-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/26/17 03:03

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.0	99.9	89	70-135	
o-Terphenyl	43.7	50.0	87	70-135	

Lab Batch #: 3013602 **Sample:** 549418-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/29/17 01:09

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	0.0317	0.0300	106	80-120	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: A14 Compressor Station

Work Order #: 549418 **Project ID:**

Analyst: ALJ **Date Prepared:** 03/28/2017 **Date Analyzed:** 03/29/2017

Lab Batch ID: 3013602 **Sample:** 722269-1-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	<0.00149	0.0990	0.0886	89	0.100	0.0825	83	7	70-130	35	
Toluene	<0.00198	0.0990	0.0935	94	0.100	0.0856	86	9	70-130	35	
Ethylbenzene	<0.00198	0.0990	0.0942	95	0.100	0.0873	87	8	71-129	35	
m_p-Xylenes	<0.00198	0.198	0.183	92	0.201	0.171	85	7	70-135	35	
o-Xylene	<0.00297	0.0990	0.0965	97	0.100	0.0905	91	6	71-133	35	

Analyst: ALA **Date Prepared:** 04/01/2017 **Date Analyzed:** 04/02/2017

Lab Batch ID: 3013954 **Sample:** 722482-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<1.00	10.0	9.91	99	10.0	9.77	98	1	80-120	20	

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

BS / BSD Recoveries

Project Name: A14 Compressor Station

Work Order #: 549418 **Project ID:**

Analyst: ARM **Date Prepared:** 03/24/2017 **Date Analyzed:** 03/26/2017

Lab Batch ID: 3013501 **Sample:** 722214-1-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	908	91	1000	1040	104	14	70-135	35	
C10-C28 Diesel Range Organics	<15.0	1000	885	89	1000	1000	100	12	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 / MSD Recoveries

Project Name: A14 Compressor Station

Work Order # : 549418 **Project ID:**

Lab Batch ID: 3013602 **QC- Sample ID:** 549418-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 03/29/2017 **Date Prepared:** 03/28/2017 **Analyst:** ALJ

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	<0.00151	0.100	0.0716	72	0.101	0.0798	79	11	70-130	35	
Toluene	<0.00201	0.100	0.0726	73	0.101	0.0815	81	12	70-130	35	
Ethylbenzene	<0.00201	0.100	0.0728	73	0.101	0.0819	81	12	71-129	35	
m_p-Xylenes	<0.00201	0.201	0.143	71	0.202	0.155	77	8	70-135	35	
o-Xylene	<0.00301	0.100	0.0713	71	0.101	0.0841	83	16	71-133	35	

Lab Batch ID: 3013954 **QC- Sample ID:** 549418-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 04/02/2017 **Date Prepared:** 04/01/2017 **Analyst:** ALA

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 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
Chloride	<9.96	99.6	104	104	99.6	103	103	1	80-120	20	

Lab Batch ID: 3013954 **QC- Sample ID:** 549469-007 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 04/02/2017 **Date Prepared:** 04/01/2017 **Analyst:** ALA

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 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
Chloride	29.4	99.0	132	104	99.0	131	103	1	80-120	20	

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: A14 Compressor Station

Work Order # : 549418 **Project ID:**

Lab Batch ID: 3013501 **QC- Sample ID:** 549418-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 03/26/2017 **Date Prepared:** 03/24/2017 **Analyst:** ARM

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	972	97	999	879	88	10	70-135	35	
C10-C28 Diesel Range Organics	<15.0	999	951	95	999	872	87	9	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.

Xenco Laboratories

The Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST 1 of 1

12600 West I-20 East
Odessa, Texas 79765

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

Project Manager: Nikki Green
Company Name: TRC Environmental Corporation
Company Address: 2057 Commerce Drive
City/State/Zip: Midland, Texas 79703
Telephone No: 432.520.7720
Fax No:
Sampler Signature:
e-mail: rose.slade@energytransfer.com; ngreen@trcsolutions.com

Project Name: A14 Compressor Station
Project #:
Project Loc: Lea County, NM
PO #:
Report Format: [x] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #: 549418

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge; GW=Groundwater S=Soil/Solid; NP=Non-Potable Specify Other	Analyze For: TPH: 418.1 / 8015M / 8015B	TPH: TX 1005 / TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides E 300.1			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
	~~Background-1~~ NG BG-11'			3/23/17	1645		1	x								Soil	x								x			x				x

TCLP:
TOTAL:
Extended to 35

Special Instructions:
Bill to Rose Slade at Energy Transfer.

Relinquished by:	Date	Time	Received by:	Date	Time
	3/24	1455		3/24	1455
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N
by Sampler/Client Rep. ?	Y	N
by Couri		

Temperatur: Temp: 21 CF: +0.1 Corrected Temp: 22

IR ID:R-8 Star

Final 1.000

XENCO Laboratories
Prelogin/Nonconformance Report- Sample Log-In

Client: TRC Solutions, Inc

Date/ Time Received: 03/24/2017 02:55:00 PM

Work Order #: 549418

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)?	2.2
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seal present on shipping container/ cooler?	**N/A**
#5 *Custody Seals intact on shipping container/ cooler?	**N/A**
#6 Custody Seals intact on sample bottles?	**N/A**
#7 *Custody Seals Signed and dated?	**N/A**
#8 *Chain of Custody present?	**Yes**
#9 Sample instructions complete on Chain of Custody?	**Yes**
#10 Any missing/extra samples?	**No**
#11 Chain of Custody signed when relinquished/ received?	**Yes**
#12 Chain of Custody agrees with sample label(s)?	**Yes**
#13 Container label(s) legible and intact?	**Yes**
#14 Sample matrix/ properties agree with Chain of Custody?	**Yes**
#15 Samples in proper container/ bottle?	**Yes**
#16 Samples properly preserved?	**Yes**
#17 Sample container(s) intact?	**Yes**
#18 Sufficient sample amount for indicated test(s)?	**Yes**
#19 All samples received within hold time?	**Yes**
#20 Subcontract of sample(s)?	**N/A**
#21 VOC samples have zero headspace?	**N/A**
#22 <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**
#23 >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: Jessica Kramer
Jessica Kramer
Date: 03/24/2017

Checklist reviewed by: Kelsey Brooks
Kelsey Brooks
Date: 03/27/2017

Analytical Report 551537

for

TRC Solutions, Inc

Project Manager: Nikki Green

A14 Compressor Station Field Scrubber

TRC#273817

26-APR-17

Collected By: Client

1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215), 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)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

26-APR-17

Project Manager: **Nikki Green**
TRC Solutions, Inc
2057 Commerce
Midland, TX 79703

Reference: XENCO Report No(s): **551537**
A14 Compressor Station Field Scrubber
Project Address: Lea County, NM

Nikki Green:

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) 551537. 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. 551537 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 551537

TRC Solutions, Inc, Midland, TX

A14 Compressor Station Field Scrubber

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS-3 16"	S	04-17-17 13:40	- 16 In	551537-001
FS-5a 1'	S	04-17-17 14:30	- 1 ft	551537-002
FS-5a 16"	S	04-17-17 15:20	- 16 In	551537-003

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3015680 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analysis Summary 551537

TRC Solutions, Inc, Midland, TX

Project Name: A14 Compressor Station Field Scrubber

Project Id: TRC#273817
Contact: Nikki Green
Project Location: Lea County, NM

Date Received in Lab: Fri Apr-21-17 11:39 am
Report Date: 26-APR-17
Project Manager: Kelsey Brooks

Analysis Requested													
	Lab Id:	551537-001		551537-002		551537-003							
	Field Id:	FS-3 16"		FS-5a 1'		FS-5a 16"							
	Depth:	16 In		1 ft		16 In							
	Matrix:	SOIL		SOIL		SOIL							
	Sampled:	Apr-17-17 13:40		Apr-17-17 14:30		Apr-17-17 15:20							
BTEX by EPA 8021B	***Extracted:***	Apr-24-17 08:00		Apr-24-17 08:00		Apr-24-17 08:00							
	Analyzed:	Apr-24-17 10:30		Apr-24-17 10:46		Apr-24-17 11:01							
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL						
Benzene		ND	0.00149	ND	0.00151	ND	0.00152						
Toluene		0.00479	0.00198	ND	0.00201	ND	0.00202						
Ethylbenzene		0.00728	0.00198	ND	0.00201	ND	0.00202						
m_p-Xylenes		0.00625	0.00198	0.00389	0.00201	0.00517	0.00202						
o-Xylene		0.00401	0.00298	ND	0.00301	ND	0.00303						
Total Xylenes		0.0103	0.00198	0.00389	0.00201	0.00517	0.00202						
Total BTEX		0.0223	0.00149	0.00389	0.00151	0.00517	0.00152						
Chloride by EPA 300	***Extracted:***			Apr-24-17 09:00		Apr-24-17 09:00							
	Analyzed:			Apr-24-17 11:39		Apr-24-17 11:47							
	Units/RL:			mg/kg	RL	mg/kg	RL						
Chloride				ND	4.88	ND	4.95						
TPH By SW8015 Mod	***Extracted:***	Apr-21-17 17:00		Apr-21-17 17:00		Apr-21-17 17:00							
	Analyzed:	Apr-22-17 16:34		Apr-22-17 16:53		Apr-22-17 17:12							
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL						
C6-C10 Gasoline Range Hydrocarbons		117	15.0	ND	15.0	ND	15.0						
C10-C28 Diesel Range Organics		1480	15.0	1240	15.0	1110	15.0						
C28-C35 Oil Range Hydrocarbons		93.8	15.0	2310	15.0	2060	15.0						
Total TPH		1690	15.0	3550	15.0	3170	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: A14 Compressor Station Field Scrubber

Work Orders : 551537,

Project ID: TRC#273817

Lab Batch #: 3015601 **Sample:** 551537-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04/22/17 16:34

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	98.1	99.7	98	70-135	
o-Terphenyl	38.6	49.9	77	70-135	

Lab Batch #: 3015601 **Sample:** 551537-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04/22/17 16:53

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	113	99.8	113	70-135	
o-Terphenyl	59.2	49.9	119	70-135	

Lab Batch #: 3015601 **Sample:** 551537-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04/22/17 17:12

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	105	99.8	105	70-135	
o-Terphenyl	52.7	49.9	106	70-135	

Lab Batch #: 3015680 **Sample:** 551537-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04/24/17 10:30

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0321	0.0300	107	80-120	
4-Bromofluorobenzene	0.0259	0.0300	86	80-120	

Lab Batch #: 3015680 **Sample:** 551537-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04/24/17 10:46

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0283	0.0300	94	80-120	
4-Bromofluorobenzene	0.0276	0.0300	92	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: A14 Compressor Station Field Scrubber

Work Orders : 551537,

Project ID: TRC#273817

Lab Batch #: 3015680 **Sample:** 551537-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04/24/17 11:01

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0311	0.0300	104	80-120	
4-Bromofluorobenzene	0.0252	0.0300	84	80-120	

Lab Batch #: 3015601 **Sample:** 723517-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04/21/17 22:55

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	121	100	121	70-135	
o-Terphenyl	63.1	50.0	126	70-135	

Lab Batch #: 3015680 **Sample:** 723559-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04/24/17 09:48

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0345	0.0300	115	80-120	
4-Bromofluorobenzene	0.0343	0.0300	114	80-120	

Lab Batch #: 3015601 **Sample:** 723517-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04/21/17 23:15

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	98.0	100	98	70-135	
o-Terphenyl	50.2	50.0	100	70-135	

Lab Batch #: 3015680 **Sample:** 723559-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04/24/17 08:26

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0291	0.0300	97	80-120	
4-Bromofluorobenzene	0.0270	0.0300	90	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: A14 Compressor Station Field Scrubber

Work Orders : 551537,

Project ID: TRC#273817

Lab Batch #: 3015601 **Sample:** 723517-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04/21/17 23:34

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	119	100	119	70-135	
o-Terphenyl	61.5	50.0	123	70-135	

Lab Batch #: 3015680 **Sample:** 723559-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04/24/17 08:43

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0297	0.0300	99	80-120	
4-Bromofluorobenzene	0.0281	0.0300	94	80-120	

Lab Batch #: 3015601 **Sample:** 551449-002 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04/22/17 00:33

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	107	99.8	107	70-135	
o-Terphenyl	50.6	49.9	101	70-135	

Lab Batch #: 3015680 **Sample:** 551542-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04/24/17 08:59

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0325	0.0300	108	80-120	
4-Bromofluorobenzene	0.0296	0.0300	99	80-120	

Lab Batch #: 3015601 **Sample:** 551449-002 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04/22/17 00:52

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	114	99.9	114	70-135	
o-Terphenyl	55.5	50.0	111	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: A14 Compressor Station Field Scrubber

Work Orders : 551537,

Project ID: TRC#273817

Lab Batch #: 3015680 **Sample:** 551542-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04/24/17 09:15

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	0.0326	0.0300	109	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: A14 Compressor Station Field Scrubber

Work Order #: 551537 **Project ID:** TRC#273817

Analyst: ALJ **Date Prepared:** 04/24/2017 **Date Analyzed:** 04/24/2017

Lab Batch ID: 3015680 **Sample:** 723559-1-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	<0.00149	0.0994	0.107	108	0.0998	0.106	106	1	70-130	35	
Toluene	<0.00199	0.0994	0.0992	100	0.0998	0.108	108	8	70-130	35	
Ethylbenzene	<0.00199	0.0994	0.111	112	0.0998	0.109	109	2	71-129	35	
m_p-Xylenes	<0.00199	0.199	0.218	110	0.200	0.209	105	4	70-135	35	
o-Xylene	<0.00298	0.0994	0.105	106	0.0998	0.0967	97	8	71-133	35	

Analyst: MGO **Date Prepared:** 04/24/2017 **Date Analyzed:** 04/24/2017

Lab Batch ID: 3015643 **Sample:** 723511-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 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	<4.98	249	270	108	249	269	108	0	90-110	20	

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

BS / BSD Recoveries

Project Name: A14 Compressor Station Field Scrubber

Work Order #: 551537 **Project ID:** TRC#273817

Analyst: ARM **Date Prepared:** 04/21/2017 **Date Analyzed:** 04/21/2017

Lab Batch ID: 3015601 **Sample:** 723517-1-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	974	97	1000	1040	104	7	70-135	35	
C10-C28 Diesel Range Organics	<15.0	1000	910	91	1000	1010	101	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

Form 3 - MS / MSD Recoveries

Project Name: A14 Compressor Station Field Scrubber

Work Order # : 551537 **Project ID:** TRC#273817

Lab Batch ID: 3015680 **QC- Sample ID:** 551542-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 04/24/2017 **Date Prepared:** 04/24/2017 **Analyst:** ALJ

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	<0.00151	0.100	0.0743	74	0.0998	0.0666	67	11	70-130	35	X
Toluene	<0.00201	0.100	0.0515	52	0.0998	0.0436	44	17	70-130	35	X
Ethylbenzene	<0.00201	0.100	0.0454	45	0.0998	0.0396	40	14	71-129	35	X
m_p-Xylenes	<0.00201	0.201	0.0856	43	0.200	0.0765	38	11	70-135	35	X
o-Xylene	<0.00301	0.100	0.0449	45	0.0998	0.0378	38	17	71-133	35	X

Lab Batch ID: 3015643 **QC- Sample ID:** 551526-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 04/24/2017 **Date Prepared:** 04/24/2017 **Analyst:** MGO

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 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
Chloride	695	250	936	96	250	944	100	1	90-110	20	

Lab Batch ID: 3015601 **QC- Sample ID:** 551449-002 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 04/22/2017 **Date Prepared:** 04/21/2017 **Analyst:** ARM

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	998	953	95	999	1050	105	10	70-135	35	
C10-C28 Diesel Range Organics	61.3	998	1030	97	999	1080	102	5	70-135	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.

Xenco Laboratories

The Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

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

Project Manager: Nikki Green

Company Name: TRC Environmental Corporation

Company Address: 2057 Commerce Drive

City/State/Zip: Midland, Texas 79703

Telephone No: 432.520.7720 Fax No:

Sampler Signature: Nikki Green e-mail: rose.slade@energytransfer.com; ngreen@trcsolutions.com

Project Name: A14 Compressor Station Field Scrubber

Project #: TRC #: 273817

Project Loc: Lea County, NM

PO #:

Report Format: [x] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #: 551537

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	TOTAL: BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides E 300.1			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
	FS-3 16"			4/17/2017	1340		1	x								Soil	x								x							x
	FS-5a 1'			4/17/2017	1430		1	x								Soil	x								x							x
	FS-5a 16"			4/17/2017	1520		1	x								Soil	x								x							x

Temp: 3.1 IR ID:R-8
CF. +0.1
Corrected Temp: 3.2

Special Instructions:

Bill to Rose Slade at Energy Transfer.

Relinquished by:	Date	Time	Received by:	Date	Time
Nikki Green	4/21/17	1139	[illegible]	4.21	1139
Relinquished by:	Date	Time	Received by	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N
by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: °C

Final 1.000

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: TRC Solutions, Inc

Date/ Time Received: 04/21/2017 11:39:00 AM

Work Order #: 551537

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)?	3.2
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seal present on shipping container/ cooler?	**N/A**
#5 *Custody Seals intact on shipping container/ cooler?	**N/A**
#6 Custody Seals intact on sample bottles?	**N/A**
#7 *Custody Seals Signed and dated?	**N/A**
#8 *Chain of Custody present?	**Yes**
#9 Sample instructions complete on Chain of Custody?	**Yes**
#10 Any missing/extra samples?	**No**
#11 Chain of Custody signed when relinquished/ received?	**Yes**
#12 Chain of Custody agrees with sample label(s)?	**Yes**
#13 Container label(s) legible and intact?	**Yes**
#14 Sample matrix/ properties agree with Chain of Custody?	**Yes**
#15 Samples in proper container/ bottle?	**Yes**
#16 Samples properly preserved?	**Yes**
#17 Sample container(s) intact?	**Yes**
#18 Sufficient sample amount for indicated test(s)?	**Yes**
#19 All samples received within hold time?	**Yes**
#20 Subcontract of sample(s)?	**N/A**
#21 VOC samples have zero headspace?	**N/A**
#22 <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**
#23 >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: Jessica Kramer
Jessica Kramer
Date: 04/21/2017

Checklist reviewed by: Kelsey Brooks
Kelsey Brooks
Date: 04/21/2017

Certificate of Analysis Summary 553088

TRC Solutions, Inc, Midland, TX

Project Name: A14 Compressor Station Field Scrubber

Project Id: TRC#273817
Contact: Nikki Green
Project Location: Lea County, NM

Date Received in Lab: Fri May-12-17 01:13 pm
Report Date: 26-MAY-17
Project Manager: Liz Givens

Analysis Requested													
	Lab Id:	553088-001		553088-002		553088-003		553088-004		553088-005		553088-006	
	Field Id:	FS -1a 4'		FS-1a 9'		FS-2a 4'		FS-2a 9'		FS-3a 4'		FS-3a 9'	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	May-10-17 11:45		May-10-17 12:19		May-10-17 14:25		May-10-17 14:58		May-10-17 16:12		May-10-17 16:58	
BTEX by EPA 8021B	***Extracted:***	May-16-17 15:00				May-16-17 15:00				May-16-17 15:00			
	Analyzed:	May-17-17 07:39				May-17-17 07:55				May-17-17 08:12			
	Units/RL:	mg/kg	RL			mg/kg	RL			mg/kg	RL		
Benzene		<0.00201	0.00201			<0.00199	0.00199			<0.00200	0.00200		
Toluene		<0.00201	0.00201			<0.00199	0.00199			<0.00200	0.00200		
Ethylbenzene		<0.00201	0.00201			<0.00199	0.00199			<0.00200	0.00200		
m,p-Xylenes		<0.00402	0.00402			<0.00398	0.00398			<0.00399	0.00399		
o-Xylene		<0.00201	0.00201			<0.00199	0.00199			<0.00200	0.00200		
Total Xylenes		<0.00201	0.00201			<0.00199	0.00199			<0.00200	0.00200		
Total BTEX		<0.00201	0.00201			<0.00199	0.00199			<0.00200	0.00200		
Chloride by EPA 300	***Extracted:***	May-20-17 16:45		May-20-17 16:45		May-20-17 16:45		May-20-17 16:45		May-20-17 16:45		May-20-17 16:45	
	Analyzed:	May-20-17 19:52		May-20-17 19:59		May-20-17 20:07		May-20-17 20:15		May-20-17 20:22		May-20-17 20:30	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		478	4.92	162	49.3	114	24.7	27.0	5.01	22.8	5.00	49.2	5.00
TPH by SW8015 Mod	***Extracted:***	May-15-17 14:00				May-15-17 14:00				May-15-17 14:00			
	Analyzed:	May-15-17 20:48				May-15-17 21:07				May-15-17 22:04			
	Units/RL:	mg/kg	RL			mg/kg	RL			mg/kg	RL		
Gasoline Range Hydrocarbons		<15.0	15.0			<15.0	15.0			<14.9	14.9		
Diesel Range Organics		23.6	15.0			18.3	15.0			15.0	14.9		
Oil Range Hydrocarbons		<15.0	15.0			<15.0	15.0			<14.9	14.9		
Total TPH		23.6	15.0			18.3	15.0			15.0	14.9		

Kelsey Brooks
Project Manager

Analytical Report 553088

for

TRC Solutions, Inc

Project Manager: Nikki Green

A14 Compressor Station Field Scrubber

TRC#273817

26-MAY-17

Collected By: Client

1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215), 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)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

26-MAY-17

Project Manager: **Nikki Green**
TRC Solutions, Inc
2057 Commerce
Midland, TX 79703

Reference: XENCO Report No(s): **553088**
A14 Compressor Station Field Scrubber
Project Address: Lea County, NM

Nikki Green:

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) 553088. 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. 553088 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 553088

TRC Solutions, Inc, Midland, TX

A14 Compressor Station Field Scrubber

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS -1a 4'	S	05-10-17 11:45		553088-001
FS-1a 9'	S	05-10-17 12:19		553088-002
FS-2a 4'	S	05-10-17 14:25		553088-003
FS-2a 9'	S	05-10-17 14:58		553088-004
FS-3a 4'	S	05-10-17 16:12		553088-005
FS-3a 9'	S	05-10-17 16:58		553088-006

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3017621 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analytical Results 553088

TRC Solutions, Inc, Midland, TX

A14 Compressor Station Field Scrubber

Sample Id:	**FS -1a 4'**	Matrix:	Soil	Date Received:	05.12.17 13.13
Lab Sample Id:	553088-001	Date Collected:	05.10.17 11.45		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MGO			% Moisture:	
Analyst:	MGO	Date Prep:	05.20.17 16.45	Basis:	Wet Weight
Seq Number:	3017806				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**478**	4.92	mg/kg	05.20.17 19.52		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	05.15.17 14.00	Basis:	Wet Weight
Seq Number:	3017485				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<15.0	15.0	mg/kg	05.15.17 20.48	U	1
Diesel Range Organics	C10C28DRO	**23.6**	15.0	mg/kg	05.15.17 20.48		1
Oil Range Hydrocarbons	PHCG2835	<15.0	15.0	mg/kg	05.15.17 20.48	U	1
Total TPH	PHC635	**23.6**	15.0	mg/kg	05.15.17 20.48		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	05.15.17 20.48	
o-Terphenyl	84-15-1	101	%	70-135	05.15.17 20.48	

Certificate of Analytical Results 553088

TRC Solutions, Inc, Midland, TX

A14 Compressor Station Field Scrubber

Sample Id:	**FS -1a 4'**	Matrix:	Soil	Date Received:	05.12.17 13.13
Lab Sample Id:	553088-001	Date Collected:	05.10.17 11.45		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	05.16.17 15.00	Basis:	Wet Weight
Seq Number:	3017621				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.17.17 07.39	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.17.17 07.39	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.17.17 07.39	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.17.17 07.39	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.17.17 07.39	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.17.17 07.39	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.17.17 07.39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	118	%	80-120	05.17.17 07.39	
1,4-Difluorobenzene	540-36-3	116	%	80-120	05.17.17 07.39	

Certificate of Analytical Results 553088

TRC Solutions, Inc, Midland, TX

A14 Compressor Station Field Scrubber

Sample Id:	**FS-1a 9'**	Matrix:	Soil	Date Received:	05.12.17 13.13
Lab Sample Id:	553088-002	Date Collected:	05.10.17 12.19		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MGO			% Moisture:	
Analyst:	MGO	Date Prep:	05.20.17 16.45	Basis:	Wet Weight
Seq Number:	3017806				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**162**	49.3	mg/kg	05.20.17 19.59		10

Certificate of Analytical Results 553088

TRC Solutions, Inc, Midland, TX

A14 Compressor Station Field Scrubber

Sample Id:	**FS-2a 4'**	Matrix:	Soil	Date Received:	05.12.17 13.13
Lab Sample Id:	553088-003	Date Collected:	05.10.17 14.25		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MGO			% Moisture:	
Analyst:	MGO	Date Prep:	05.20.17 16.45	Basis:	Wet Weight
Seq Number:	3017806				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**114**	24.7	mg/kg	05.20.17 20.07		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	05.15.17 14.00	Basis:	Wet Weight
Seq Number:	3017485				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<15.0	15.0	mg/kg	05.15.17 21.07	U	1
Diesel Range Organics	C10C28DRO	**18.3**	15.0	mg/kg	05.15.17 21.07		1
Oil Range Hydrocarbons	PHCG2835	<15.0	15.0	mg/kg	05.15.17 21.07	U	1
Total TPH	PHC635	**18.3**	15.0	mg/kg	05.15.17 21.07		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	05.15.17 21.07	
o-Terphenyl	84-15-1	98	%	70-135	05.15.17 21.07	

Certificate of Analytical Results 553088

TRC Solutions, Inc, Midland, TX

A14 Compressor Station Field Scrubber

Sample Id:	**FS-2a 4'**	Matrix:	Soil	Date Received:	05.12.17 13.13
Lab Sample Id:	553088-003	Date Collected:	05.10.17 14.25		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	05.16.17 15.00	Basis:	Wet Weight
Seq Number:	3017621				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.17.17 07.55	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.17.17 07.55	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.17.17 07.55	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.17.17 07.55	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.17.17 07.55	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.17.17 07.55	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.17.17 07.55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	87	%	80-120	05.17.17 07.55	
4-Bromofluorobenzene	460-00-4	85	%	80-120	05.17.17 07.55	

Certificate of Analytical Results 553088

TRC Solutions, Inc, Midland, TX

A14 Compressor Station Field Scrubber

Sample Id:	**FS-2a 9'**	Matrix:	Soil	Date Received:	05.12.17 13.13
Lab Sample Id:	553088-004	Date Collected:	05.10.17 14.58		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MGO			% Moisture:	
Analyst:	MGO	Date Prep:	05.20.17 16.45	Basis:	Wet Weight
Seq Number:	3017806				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**27.0**	5.01	mg/kg	05.20.17 20.15		1

Certificate of Analytical Results 553088

TRC Solutions, Inc, Midland, TX

A14 Compressor Station Field Scrubber

Sample Id:	**FS-3a 4'**	Matrix:	Soil	Date Received:	05.12.17 13.13
Lab Sample Id:	553088-005	Date Collected:	05.10.17 16.12		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MGO			% Moisture:	
Analyst:	MGO	Date Prep:	05.20.17 16.45	Basis:	Wet Weight
Seq Number:	3017806				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**22.8**	5.00	mg/kg	05.20.17 20.22		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	05.15.17 14.00	Basis:	Wet Weight
Seq Number:	3017485				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<14.9	14.9	mg/kg	05.15.17 22.04	U	1
Diesel Range Organics	C10C28DRO	**15.0**	14.9	mg/kg	05.15.17 22.04		1
Oil Range Hydrocarbons	PHCG2835	<14.9	14.9	mg/kg	05.15.17 22.04	U	1
Total TPH	PHC635	**15.0**	14.9	mg/kg	05.15.17 22.04		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-135	05.15.17 22.04	
o-Terphenyl	84-15-1	94	%	70-135	05.15.17 22.04	

Certificate of Analytical Results 553088

TRC Solutions, Inc, Midland, TX

A14 Compressor Station Field Scrubber

Sample Id:	**FS-3a 4'**	Matrix:	Soil	Date Received:	05.12.17 13.13
Lab Sample Id:	553088-005	Date Collected:	05.10.17 16.12		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	05.16.17 15.00	Basis:	Wet Weight
Seq Number:	3017621				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.17.17 08.12	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.17.17 08.12	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.17.17 08.12	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.17.17 08.12	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.17.17 08.12	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.17.17 08.12	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.17.17 08.12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	90	%	80-120	05.17.17 08.12	
1,4-Difluorobenzene	540-36-3	100	%	80-120	05.17.17 08.12	

Certificate of Analytical Results 553088

TRC Solutions, Inc, Midland, TX

A14 Compressor Station Field Scrubber

Sample Id:	**FS-3a 9'**	Matrix:	Soil	Date Received:	05.12.17 13.13
Lab Sample Id:	553088-006	Date Collected:	05.10.17 16.58		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MGO			% Moisture:	
Analyst:	MGO	Date Prep:	05.20.17 16.45	Basis:	Wet Weight
Seq Number:	3017806				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**49.2**	5.00	mg/kg	05.20.17 20.30		1

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	

QC Summary 553088

TRC Solutions, Inc

A14 Compressor Station Field Scrubber

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3017806 Matrix: Solid Date Prep: 05.20.17
MB Sample Id: 724934-1-BLK LCS Sample Id: 724934-1-BKS LCSD Sample Id: 724934-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	253	101	255	102	90-110	1	20	mg/kg	05.20.17 16:49	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3017806 Matrix: Soil Date Prep: 05.20.17
Parent Sample Id: 553084-001 MS Sample Id: 553084-001 S MSD Sample Id: 553084-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	144	246	413	109	413	109	90-110	0	20	mg/kg	05.20.17 17:12	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3017806 Matrix: Soil Date Prep: 05.20.17
Parent Sample Id: 553084-005 MS Sample Id: 553084-005 S MSD Sample Id: 553084-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	526	250	774	99	775	100	90-110	0	20	mg/kg	05.20.17 18:59	

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3017485 Matrix: Solid Date Prep: 05.15.17
MB Sample Id: 724731-1-BLK LCS Sample Id: 724731-1-BKS LCSD Sample Id: 724731-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons	<15.0	1000	960	96	915	92	70-135	5	35	mg/kg	05.15.17 16:53	
Diesel Range Organics	<15.0	1000	935	94	909	91	70-135	3	35	mg/kg	05.15.17 16:53	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	117		113		110		70-135	%	05.15.17 16:53
o-Terphenyl	119		107		106		70-135	%	05.15.17 16:53

QC Summary 553088

TRC Solutions, Inc

A14 Compressor Station Field Scrubber

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3017485 Matrix: Soil Date Prep: 05.15.17
Parent Sample Id: 553084-001 MS Sample Id: 553084-001 S MSD Sample Id: 553084-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons	<15.0	999	945	95	932	93	70-135	1	35	mg/kg	05.15.17 17:58	
Diesel Range Organics	19.5	999	939	92	927	91	70-135	1	35	mg/kg	05.15.17 17:58	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	109		105		70-135	%	05.15.17 17:58
o-Terphenyl	100		93		70-135	%	05.15.17 17:58

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B
Seq Number: 3017621 Matrix: Solid Date Prep: 05.16.17
MB Sample Id: 724725-1-BLK LCS Sample Id: 724725-1-BKS LCSD Sample Id: 724725-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00202	0.101	0.0884	88	0.0888	89	70-130	0	35	mg/kg	05.16.17 15:59	
Toluene	<0.00202	0.101	0.0889	88	0.0944	94	70-130	6	35	mg/kg	05.16.17 15:59	
Ethylbenzene	<0.00202	0.101	0.100	99	0.0996	100	71-129	0	35	mg/kg	05.16.17 15:59	
m,p-Xylenes	<0.00403	0.202	0.202	100	0.201	100	70-135	0	35	mg/kg	05.16.17 15:59	
o-Xylene	<0.00202	0.101	0.0963	95	0.0964	96	71-133	0	35	mg/kg	05.16.17 15:59	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		106		118		80-120	%	05.16.17 15:59
4-Bromofluorobenzene	95		112		119		80-120	%	05.16.17 15:59

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B
Seq Number: 3017621 Matrix: Soil Date Prep: 05.16.17
Parent Sample Id: 553084-008 MS Sample Id: 553084-008 S MSD Sample Id: 553084-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	0.00489	0.0996	0.0767	72	0.0763	71	70-130	1	35	mg/kg	05.16.17 17:03	
Toluene	<0.00199	0.0996	0.0826	83	0.0823	82	70-130	0	35	mg/kg	05.16.17 17:03	
Ethylbenzene	<0.00199	0.0996	0.0880	88	0.0770	77	71-129	13	35	mg/kg	05.16.17 17:03	
m,p-Xylenes	<0.00398	0.199	0.177	89	0.155	78	70-135	13	35	mg/kg	05.16.17 17:03	
o-Xylene	<0.00199	0.0996	0.0850	85	0.0820	82	71-133	4	35	mg/kg	05.16.17 17:03	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	112		103		80-120	%	05.16.17 17:03
4-Bromofluorobenzene	119		119		80-120	%	05.16.17 17:03

Xenco Laboratories

The Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

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

Project Manager: Nikki Green

Project Name: A14 Compressor Station Field Scrubber

Company Name: TRC Environmental Corporation

Project #: TRC #: 273817

Company Address: 2057 Commerce Drive

Project Loc: Lea County, NM

City/State/Zip: Midland, Texas 79703

PO #:

Telephone No: 432.520.7720

Fax No:

Report Format: [x] Standard [ ] TRRP [ ] NPDES

Sampler Signature: Nikki Green

e-mail: rose.slade@energytransfer.com
ngreen@trcsolutions.com

(lab use only)
ORDER #: 553088

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides E 300.1			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
	FS-1a 4'			5/10/2017	1145		1	x								Soil	x								x			x				x
	FS-1a 9'			5/10/2017	1219		1	x								Soil												x				x
	FS-2a 4'			5/10/2017	1425		1	x								Soil	x								x			x				x
	FS-2a 9'			5/10/2017	1458		1	x								Soil												x				x
	FS-3a 4'			5/10/2017	1612		1	x								Soil	x								x			x				x
	FS-3a 9'			5/10/2017	1658		1	x								Soil												x				x

Special Instructions:

Bill to Rose Slade at Energy Transfer.

Relinquished by: Nikki Green	Date 5/12/17	Time 13:13	Received by: Monaya	Date 5/12/17	Time 13:13
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time

Temp: 4.6 IR ID:R-9
CF:(0-6: 0.0°C) (6-23: +0.1°C)
Corrected Temp: 4.6

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N
by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: °C

XENCO Laboratories
Prelogin/Nonconformance Report- Sample Log-In

Client: TRC Solutions, Inc

Date/ Time Received: 05/12/2017 01:13:00 PM

Work Order #: 553088

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

Temperature Measuring device used : R9

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	4.6	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seal present on shipping container/ cooler?	**N/A**	
#5 *Custody Seals intact on shipping container/ cooler?	**N/A**	
#6 Custody Seals intact on sample bottles?	**N/A**	
#7 *Custody Seals Signed and dated?	**N/A**	
#8 *Chain of Custody present?	**Yes**	
#9 Sample instructions complete on Chain of Custody?	**Yes**	
#10 Any missing/extra samples?	**No**	
#11 Chain of Custody signed when relinquished/ received?	**Yes**	
#12 Chain of Custody agrees with sample label(s)?	**Yes**	
#13 Container label(s) legible and intact?	**Yes**	
#14 Sample matrix/ properties agree with Chain of Custody?	**Yes**	
#15 Samples in proper container/ bottle?	**Yes**	
#16 Samples properly preserved?	**Yes**	
#17 Sample container(s) intact?	**Yes**	
#18 Sufficient sample amount for indicated test(s)?	**Yes**	
#19 All samples received within hold time?	**Yes**	
#20 Subcontract of sample(s)?	**N/A**	Houston
#21 VOC samples have zero headspace?	**N/A**	
#22 <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**	
#23 >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: Marithza Anaya Date: 05/12/2017

Checklist reviewed by: Holly Taylor Date: 05/15/2017

Certificate of Analysis Summary 555475

TRC Solutions, Inc, Midland, TX

Project Name: A14 Compressor Station Field Scrubber

Project Id: TRC#273818
Contact: Nikki Green
Project Location: Lea County, NM

Date Received in Lab: Thu Jun-15-17 09:30 am
Report Date: 06-JUL-17
Project Manager: Kelsey Brooks

Analysis Requested													
	Lab Id:	555475-001		555475-002		555475-003		555475-004		555475-005		555475-006	
	Field Id:	BH-1 4'		SW-1 3'		NW-1 3'		BH-4 1'		EW-1 3'		BH-2 3'	
	Depth:	4 ft		3 ft		3 ft		1 ft		3 ft		3 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jun-13-17 11:51		Jun-13-17 12:05		Jun-13-17 12:17		Jun-14-17 17:00		Jun-13-17 12:22		Jun-14-17 10:00	
BTEX by EPA 8021B	***Extracted:***	Jun-15-17 17:15		Jun-15-17 17:15		Jun-15-17 17:15		Jun-15-17 17:15		Jun-16-17 15:30		Jun-16-17 15:30	
	Analyzed:	Jun-16-17 02:59		Jun-16-17 03:15		Jun-16-17 06:04		Jun-16-17 10:59		Jun-17-17 12:18		Jun-16-17 23:33	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00200	0.00200	<0.00205	0.00205	<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200
Toluene		<0.00200	0.00200	<0.00205	0.00205	<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200
Ethylbenzene		<0.00200	0.00200	<0.00205	0.00205	<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200
m,p-Xylenes		<0.00401	0.00401	<0.00410	0.00410	<0.00398	0.00398	0.00511	0.00399	<0.00402	0.00402	<0.00401	0.00401
o-Xylene		<0.00200	0.00200	<0.00205	0.00205	<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200
Total Xylenes		<0.00200	0.00200	<0.00205	0.00205	<0.00199	0.00199	0.00511	0.00200	<0.00201	0.00201	<0.00200	0.00200
Total BTEX		<0.00200	0.00200	<0.00205	0.00205	<0.00199	0.00199	0.00511	0.00200	<0.00201	0.00201	<0.00200	0.00200
Chloride by EPA 300	***Extracted:***	Jun-19-17 11:00		Jun-19-17 11:00		Jun-19-17 11:00		Jun-19-17 11:00		Jun-19-17 13:30		Jun-19-17 13:30	
	Analyzed:	Jun-19-17 16:21		Jun-19-17 16:29		Jun-19-17 17:48		Jun-19-17 17:56		Jun-19-17 19:58		Jun-19-17 20:20	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		21.5	4.94	176	4.94	38.9	5.00	13.9	4.94	336	4.89	166	4.97
TPH by SW8015 Mod	***Extracted:***	Jun-15-17 15:00		Jun-15-17 15:00		Jun-15-17 15:00		Jun-15-17 15:00		Jun-15-17 15:00		Jun-15-17 15:00	
	Analyzed:	Jun-15-17 23:27		Jun-15-17 23:47		Jun-16-17 00:06		Jun-16-17 00:27		Jun-16-17 00:47		Jun-16-17 01:08	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
Diesel Range Organics		<15.0	15.0	<15.0	15.0	<15.0	15.0	128	15.0	<15.0	15.0	<15.0	15.0
Oil Range Hydrocarbons		<15.0	15.0	<15.0	15.0	<15.0	15.0	187	15.0	<15.0	15.0	<15.0	15.0
Total TPH		<15.0	15.0	<15.0	15.0	<15.0	15.0	315	15.0	<15.0	15.0	<15.0	15.0

Kelsey Brooks
Project Manager

Certificate of Analysis Summary 555475

TRC Solutions, Inc, Midland, TX

Project Name: A14 Compressor Station Field Scrubber

Project Id: TRC#273818
Contact: Nikki Green
Project Location: Lea County, NM

Date Received in Lab: Thu Jun-15-17 09:30 am
Report Date: 06-JUL-17
Project Manager: Kelsey Brooks

Analysis Requested									
	Lab Id:	555475-007		555475-008		555475-009			
	Field Id:	SW-2 2'		NW-2 2'		BH-5 1'			
	Depth:	2 ft		2 ft		1 ft			
	Matrix:	SOIL		SOIL		SOIL			
	Sampled:	Jun-14-17 10:15		Jun-14-17 10:27		Jun-14-17 17:05			
BTEX by EPA 8021B	***Extracted:***	Jun-15-17 17:15		Jun-16-17 15:30		Jun-19-17 06:30			
	Analyzed:	Jun-16-17 11:32		Jun-17-17 12:35		Jun-19-17 13:22			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene		<0.00199	0.00199	<0.00202	0.00202	<0.00202	0.00202		
Toluene		<0.00199	0.00199	<0.00202	0.00202	<0.00202	0.00202		
Ethylbenzene		<0.00199	0.00199	<0.00202	0.00202	<0.00202	0.00202		
m,p-Xylenes		<0.00398	0.00398	<0.00404	0.00404	<0.00403	0.00403		
o-Xylene		<0.00199	0.00199	<0.00202	0.00202	<0.00202	0.00202		
Total Xylenes		<0.00199	0.00199	<0.00202	0.00202	<0.00202	0.00202		
Total BTEX		<0.00199	0.00199	<0.00202	0.00202	<0.00202	0.00202		
Chloride by EPA 300	***Extracted:***	Jun-19-17 13:30		Jun-19-17 13:30		Jun-19-17 13:30			
	Analyzed:	Jun-19-17 20:28		Jun-19-17 20:36		Jun-19-17 20:43			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		55.1	4.92	186	24.8	11.7	5.00		
TPH by SW8015 Mod	***Extracted:***	Jun-15-17 15:00		Jun-15-17 15:00		Jun-15-17 15:00			
	Analyzed:	Jun-16-17 01:28		Jun-16-17 01:48		Jun-16-17 02:10			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons		<15.0	15.0	<15.0	15.0	<15.0	15.0		
Diesel Range Organics		<15.0	15.0	<15.0	15.0	26.3	15.0		
Oil Range Hydrocarbons		<15.0	15.0	<15.0	15.0	<15.0	15.0		
Total TPH		<15.0	15.0	<15.0	15.0	26.3	15.0		

Kelsey Brooks
Project Manager

Analytical Report 555475

for

TRC Solutions, Inc

Project Manager: Nikki Green

A14 Compressor Station Field Scrubber

TRC#273818

06-JUL-17

Collected By: Client

1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215), 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)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

06-JUL-17

Project Manager: **Nikki Green**
TRC Solutions, Inc
2057 Commerce
Midland, TX 79703

Reference: XENCO Report No(s): **555475**
A14 Compressor Station Field Scrubber
Project Address: Lea County, NM

Nikki Green:

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) 555475. 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. 555475 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 555475

TRC Solutions, Inc, Midland, TX

A14 Compressor Station Field Scrubber

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH-1 4'	S	06-13-17 11:51	- 4 ft	555475-001
SW-1 3'	S	06-13-17 12:05	- 3 ft	555475-002
NW-1 3'	S	06-13-17 12:17	- 3 ft	555475-003
BH-4 1'	S	06-14-17 17:00	- 1 ft	555475-004
EW-1 3'	S	06-13-17 12:22	- 3 ft	555475-005
BH-2 3'	S	06-14-17 10:00	- 3 ft	555475-006
SW-2 2'	S	06-14-17 10:15	- 2 ft	555475-007
NW-2 2'	S	06-14-17 10:27	- 2 ft	555475-008
BH-5 1'	S	06-14-17 17:05	- 1 ft	555475-009

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3019915 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.
Benzene, Toluene Relative Percent Difference (RPD) between matrix spike and duplicate were above quality control limits.
Samples in the analytical batch are: 555475-001, -002, -003, -004, -007

Lab Sample ID 555475-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene, Ethylbenzene, Toluene, m,p-Xylenes 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: 555475-001, -002, -003, -004, -007.
The Laboratory Control Sample for Toluene, Benzene, m,p-Xylenes, Ethylbenzene is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3020005 BTEX by EPA 8021B
Lab Sample ID 555475-006 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). m,p-Xylenes recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 555475-005, -006, -008.
The Laboratory Control Sample for m,p-Xylenes is within laboratory Control Limits, therefore the data was accepted.
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3020111 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analytical Results 555475

TRC Solutions, Inc, Midland, TX

A14 Compressor Station Field Scrubber

Sample Id:	**BH-1 4'**	Matrix:	Soil	Date Received:	06.15.17 09.30
Lab Sample Id:	555475-001	Date Collected:	06.13.17 11.51	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MGO			% Moisture:	
Analyst:	MGO	Date Prep:	06.19.17 11.00	Basis:	Wet Weight
Seq Number:	3020141				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**21.5**	4.94	mg/kg	06.19.17 16.21		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.15.17 15.00	Basis:	Wet Weight
Seq Number:	3019902				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<15.0	15.0	mg/kg	06.15.17 23.27	U	1
Diesel Range Organics	C10C28DRO	<15.0	15.0	mg/kg	06.15.17 23.27	U	1
Oil Range Hydrocarbons	PHCG2835	<15.0	15.0	mg/kg	06.15.17 23.27	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.15.17 23.27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	06.15.17 23.27	
o-Terphenyl	84-15-1	103	%	70-135	06.15.17 23.27	

Certificate of Analytical Results 555475

TRC Solutions, Inc, Midland, TX

A14 Compressor Station Field Scrubber

Sample Id:	**BH-1 4'**	Matrix:	Soil	Date Received:	06.15.17 09.30
Lab Sample Id:	555475-001	Date Collected:	06.13.17 11.51	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	06.15.17 17.15	Basis:	Wet Weight
Seq Number:	3019915				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.16.17 02.59	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.16.17 02.59	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.16.17 02.59	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	06.16.17 02.59	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.16.17 02.59	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.16.17 02.59	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.16.17 02.59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	89	%	80-120	06.16.17 02.59	
4-Bromofluorobenzene	460-00-4	104	%	80-120	06.16.17 02.59	

Certificate of Analytical Results 555475

TRC Solutions, Inc, Midland, TX

A14 Compressor Station Field Scrubber

Sample Id:	**SW-1 3'**	Matrix:	Soil	Date Received:	06.15.17 09.30
Lab Sample Id:	555475-002	Date Collected:	06.13.17 12.05	Sample Depth:	3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MGO			% Moisture:	
Analyst:	MGO	Date Prep:	06.19.17 11.00	Basis:	Wet Weight
Seq Number:	3020141				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**176**	4.94	mg/kg	06.19.17 16.29		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.15.17 15.00	Basis:	Wet Weight
Seq Number:	3019902				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<15.0	15.0	mg/kg	06.15.17 23.47	U	1
Diesel Range Organics	C10C28DRO	<15.0	15.0	mg/kg	06.15.17 23.47	U	1
Oil Range Hydrocarbons	PHCG2835	<15.0	15.0	mg/kg	06.15.17 23.47	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.15.17 23.47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	06.15.17 23.47	
o-Terphenyl	84-15-1	104	%	70-135	06.15.17 23.47	

Certificate of Analytical Results 555475

TRC Solutions, Inc, Midland, TX

A14 Compressor Station Field Scrubber

Sample Id:	**SW-1 3'**	Matrix:	Soil	Date Received:	06.15.17 09.30
Lab Sample Id:	555475-002	Date Collected:	06.13.17 12.05	Sample Depth:	3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	06.15.17 17.15	Basis:	Wet Weight
Seq Number:	3019915				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00205	0.00205	mg/kg	06.16.17 03.15	U	1
Toluene	108-88-3	<0.00205	0.00205	mg/kg	06.16.17 03.15	U	1
Ethylbenzene	100-41-4	<0.00205	0.00205	mg/kg	06.16.17 03.15	U	1
m,p-Xylenes	179601-23-1	<0.00410	0.00410	mg/kg	06.16.17 03.15	U	1
o-Xylene	95-47-6	<0.00205	0.00205	mg/kg	06.16.17 03.15	U	1
Total Xylenes	1330-20-7	<0.00205	0.00205	mg/kg	06.16.17 03.15	U	1
Total BTEX		<0.00205	0.00205	mg/kg	06.16.17 03.15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	83	%	80-120	06.16.17 03.15	
4-Bromofluorobenzene	460-00-4	94	%	80-120	06.16.17 03.15	

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TRC Solutions, Inc, Midland, TX

A14 Compressor Station Field Scrubber

Sample Id:	**NW-1 3'**	Matrix:	Soil	Date Received:	06.15.17 09.30
Lab Sample Id:	555475-003	Date Collected:	06.13.17 12.17	Sample Depth:	3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MGO			% Moisture:	
Analyst:	MGO	Date Prep:	06.19.17 11.00	Basis:	Wet Weight
Seq Number:	3020141				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**38.9**	5.00	mg/kg	06.19.17 17.48		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.15.17 15.00	Basis:	Wet Weight
Seq Number:	3019902				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<15.0	15.0	mg/kg	06.16.17 00.06	U	1
Diesel Range Organics	C10C28DRO	<15.0	15.0	mg/kg	06.16.17 00.06	U	1
Oil Range Hydrocarbons	PHCG2835	<15.0	15.0	mg/kg	06.16.17 00.06	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.16.17 00.06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-135	06.16.17 00.06	
o-Terphenyl	84-15-1	100	%	70-135	06.16.17 00.06	

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TRC Solutions, Inc, Midland, TX

A14 Compressor Station Field Scrubber

Sample Id:	**NW-1 3'**	Matrix:	Soil	Date Received:	06.15.17 09.30
Lab Sample Id:	555475-003	Date Collected:	06.13.17 12.17	Sample Depth:	3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	06.15.17 17.15	Basis:	Wet Weight
Seq Number:	3019915				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.16.17 06.04	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.16.17 06.04	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.16.17 06.04	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.16.17 06.04	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.16.17 06.04	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.16.17 06.04	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.16.17 06.04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	95	%	80-120	06.16.17 06.04	
4-Bromofluorobenzene	460-00-4	98	%	80-120	06.16.17 06.04	

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A14 Compressor Station Field Scrubber

Sample Id:	**BH-4 1'**	Matrix:	Soil	Date Received:	06.15.17 09.30
Lab Sample Id:	555475-004	Date Collected:	06.14.17 17.00	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MGO			% Moisture:	
Analyst:	MGO	Date Prep:	06.19.17 11.00	Basis:	Wet Weight
Seq Number:	3020141				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**13.9**	4.94	mg/kg	06.19.17 17.56		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.15.17 15.00	Basis:	Wet Weight
Seq Number:	3019902				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<15.0	15.0	mg/kg	06.16.17 00.27	U	1
Diesel Range Organics	C10C28DRO	**128**	15.0	mg/kg	06.16.17 00.27		1
Oil Range Hydrocarbons	PHCG2835	**187**	15.0	mg/kg	06.16.17 00.27		1
Total TPH	PHC635	**315**	15.0	mg/kg	06.16.17 00.27		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-135	06.16.17 00.27	
o-Terphenyl	84-15-1	105	%	70-135	06.16.17 00.27	

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A14 Compressor Station Field Scrubber

Sample Id:	**BH-4 1'**	Matrix:	Soil	Date Received:	06.15.17 09.30
Lab Sample Id:	555475-004	Date Collected:	06.14.17 17.00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	06.15.17 17.15	Basis:	Wet Weight
Seq Number:	3019915				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.16.17 10.59	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.16.17 10.59	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.16.17 10.59	U	1
m,p-Xylenes	179601-23-1	**0.00511**	0.00399	mg/kg	06.16.17 10.59		1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.16.17 10.59	U	1
Total Xylenes	1330-20-7	**0.00511**	0.00200	mg/kg	06.16.17 10.59		1
Total BTEX		**0.00511**	0.00200	mg/kg	06.16.17 10.59		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	120	%	80-120	06.16.17 10.59	
1,4-Difluorobenzene	540-36-3	95	%	80-120	06.16.17 10.59	

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TRC Solutions, Inc, Midland, TX

A14 Compressor Station Field Scrubber

Sample Id:	**EW-1 3'**	Matrix:	Soil	Date Received:	06.15.17 09.30
Lab Sample Id:	555475-005	Date Collected:	06.13.17 12.22	Sample Depth:	3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MGO			% Moisture:	
Analyst:	MGO	Date Prep:	06.19.17 13.30	Basis:	Wet Weight
Seq Number:	3020148				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**336**	4.89	mg/kg	06.19.17 19.58		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.15.17 15.00	Basis:	Wet Weight
Seq Number:	3019902				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<15.0	15.0	mg/kg	06.16.17 00.47	U	1
Diesel Range Organics	C10C28DRO	<15.0	15.0	mg/kg	06.16.17 00.47	U	1
Oil Range Hydrocarbons	PHCG2835	<15.0	15.0	mg/kg	06.16.17 00.47	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.16.17 00.47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	06.16.17 00.47	
o-Terphenyl	84-15-1	105	%	70-135	06.16.17 00.47	

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TRC Solutions, Inc, Midland, TX

A14 Compressor Station Field Scrubber

Sample Id:	**EW-1 3'**	Matrix:	Soil	Date Received:	06.15.17 09.30
Lab Sample Id:	555475-005	Date Collected:	06.13.17 12.22	Sample Depth:	3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	06.16.17 15.30	Basis:	Wet Weight
Seq Number:	3020005				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	06.17.17 12.18	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	06.17.17 12.18	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	06.17.17 12.18	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	06.17.17 12.18	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	06.17.17 12.18	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	06.17.17 12.18	U	1
Total BTEX		<0.00201	0.00201	mg/kg	06.17.17 12.18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	82	%	80-120	06.17.17 12.18	
1,4-Difluorobenzene	540-36-3	96	%	80-120	06.17.17 12.18	

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TRC Solutions, Inc, Midland, TX

A14 Compressor Station Field Scrubber

Sample Id:	**BH-2 3'**	Matrix:	Soil	Date Received:	06.15.17 09.30
Lab Sample Id:	555475-006	Date Collected:	06.14.17 10.00	Sample Depth:	3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MGO			% Moisture:	
Analyst:	MGO	Date Prep:	06.19.17 13.30	Basis:	Wet Weight
Seq Number:	3020148				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**166**	4.97	mg/kg	06.19.17 20.20		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.15.17 15.00	Basis:	Wet Weight
Seq Number:	3019902				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<15.0	15.0	mg/kg	06.16.17 01.08	U	1
Diesel Range Organics	C10C28DRO	<15.0	15.0	mg/kg	06.16.17 01.08	U	1
Oil Range Hydrocarbons	PHCG2835	<15.0	15.0	mg/kg	06.16.17 01.08	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.16.17 01.08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-135	06.16.17 01.08	
o-Terphenyl	84-15-1	96	%	70-135	06.16.17 01.08	

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TRC Solutions, Inc, Midland, TX

A14 Compressor Station Field Scrubber

Sample Id:	**BH-2 3'**	Matrix:	Soil	Date Received:	06.15.17 09.30
Lab Sample Id:	555475-006	Date Collected:	06.14.17 10.00	Sample Depth:	3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	06.16.17 15.30	Basis:	Wet Weight
Seq Number:	3020005				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.16.17 23.33	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.16.17 23.33	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.16.17 23.33	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	06.16.17 23.33	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.16.17 23.33	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.16.17 23.33	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.16.17 23.33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	116	%	80-120	06.16.17 23.33	
1,4-Difluorobenzene	540-36-3	108	%	80-120	06.16.17 23.33	

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TRC Solutions, Inc, Midland, TX

A14 Compressor Station Field Scrubber

Sample Id:	**SW-2 2'**	Matrix:	Soil	Date Received:	06.15.17 09.30
Lab Sample Id:	555475-007	Date Collected:	06.14.17 10.15	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MGO			% Moisture:	
Analyst:	MGO	Date Prep:	06.19.17 13.30	Basis:	Wet Weight
Seq Number:	3020148				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**55.1**	4.92	mg/kg	06.19.17 20.28		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.15.17 15.00	Basis:	Wet Weight
Seq Number:	3019902				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<15.0	15.0	mg/kg	06.16.17 01.28	U	1
Diesel Range Organics	C10C28DRO	<15.0	15.0	mg/kg	06.16.17 01.28	U	1
Oil Range Hydrocarbons	PHCG2835	<15.0	15.0	mg/kg	06.16.17 01.28	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.16.17 01.28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	06.16.17 01.28	
o-Terphenyl	84-15-1	102	%	70-135	06.16.17 01.28	

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TRC Solutions, Inc, Midland, TX

A14 Compressor Station Field Scrubber

Sample Id:	**SW-2 2'**	Matrix:	Soil	Date Received:	06.15.17 09.30
Lab Sample Id:	555475-007	Date Collected:	06.14.17 10.15	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	06.15.17 17.15	Basis:	Wet Weight
Seq Number:	3019915				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.16.17 11.32	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.16.17 11.32	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.16.17 11.32	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.16.17 11.32	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.16.17 11.32	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.16.17 11.32	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.16.17 11.32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	114	%	80-120	06.16.17 11.32	
1,4-Difluorobenzene	540-36-3	95	%	80-120	06.16.17 11.32	

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A14 Compressor Station Field Scrubber

Sample Id:	**NW-2 2'**	Matrix:	Soil	Date Received:	06.15.17 09.30
Lab Sample Id:	555475-008	Date Collected:	06.14.17 10.27	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MGO			% Moisture:	
Analyst:	MGO	Date Prep:	06.19.17 13.30	Basis:	Wet Weight
Seq Number:	3020148				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**186**	24.8	mg/kg	06.19.17 20.36		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.15.17 15.00	Basis:	Wet Weight
Seq Number:	3019902				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<15.0	15.0	mg/kg	06.16.17 01.48	U	1
Diesel Range Organics	C10C28DRO	<15.0	15.0	mg/kg	06.16.17 01.48	U	1
Oil Range Hydrocarbons	PHCG2835	<15.0	15.0	mg/kg	06.16.17 01.48	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.16.17 01.48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	06.16.17 01.48	
o-Terphenyl	84-15-1	97	%	70-135	06.16.17 01.48	

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A14 Compressor Station Field Scrubber

Sample Id:	**NW-2 2'**	Matrix:	Soil	Date Received:	06.15.17 09.30
Lab Sample Id:	555475-008	Date Collected:	06.14.17 10.27	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	06.16.17 15.30	Basis:	Wet Weight
Seq Number:	3020005				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	06.17.17 12.35	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	06.17.17 12.35	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	06.17.17 12.35	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	06.17.17 12.35	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	06.17.17 12.35	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	06.17.17 12.35	U	1
Total BTEX		<0.00202	0.00202	mg/kg	06.17.17 12.35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	91	%	80-120	06.17.17 12.35	
4-Bromofluorobenzene	460-00-4	107	%	80-120	06.17.17 12.35	

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A14 Compressor Station Field Scrubber

Sample Id:	**BH-5 1'**	Matrix:	Soil	Date Received:	06.15.17 09.30
Lab Sample Id:	555475-009	Date Collected:	06.14.17 17.05	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MGO			% Moisture:	
Analyst:	MGO	Date Prep:	06.19.17 13.30	Basis:	Wet Weight
Seq Number:	3020148				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**11.7**	5.00	mg/kg	06.19.17 20.43		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.15.17 15.00	Basis:	Wet Weight
Seq Number:	3019902				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<15.0	15.0	mg/kg	06.16.17 02.10	U	1
Diesel Range Organics	C10C28DRO	**26.3**	15.0	mg/kg	06.16.17 02.10		1
Oil Range Hydrocarbons	PHCG2835	<15.0	15.0	mg/kg	06.16.17 02.10	U	1
Total TPH	PHC635	**26.3**	15.0	mg/kg	06.16.17 02.10		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-135	06.16.17 02.10	
o-Terphenyl	84-15-1	96	%	70-135	06.16.17 02.10	

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TRC Solutions, Inc, Midland, TX

A14 Compressor Station Field Scrubber

Sample Id:	**BH-5 1'**	Matrix:	Soil	Date Received:	06.15.17 09.30
Lab Sample Id:	555475-009	Date Collected:	06.14.17 17.05	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	06.19.17 06.30	Basis:	Wet Weight
Seq Number:	3020111				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	06.19.17 13.22	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	06.19.17 13.22	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	06.19.17 13.22	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	06.19.17 13.22	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	06.19.17 13.22	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	06.19.17 13.22	U	1
Total BTEX		<0.00202	0.00202	mg/kg	06.19.17 13.22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	116	%	80-120	06.19.17 13.22	
1,4-Difluorobenzene	540-36-3	94	%	80-120	06.19.17 13.22	

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

QC Summary 555475

TRC Solutions, Inc

A14 Compressor Station Field Scrubber

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3020141 Matrix: Solid Date Prep: 06.19.17
MB Sample Id: 726321-1-BLK LCS Sample Id: 726321-1-BKS LCSD Sample Id: 726321-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	249	100	246	98	90-110	1	20	mg/kg	06.19.17 11:27	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3020148 Matrix: Solid Date Prep: 06.19.17
MB Sample Id: 726322-1-BLK LCS Sample Id: 726322-1-BKS LCSD Sample Id: 726322-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	227	91	230	92	90-110	1	20	mg/kg	06.19.17 19:42	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3020141 Matrix: Soil Date Prep: 06.19.17
Parent Sample Id: 555462-001 MS Sample Id: 555462-001 S MSD Sample Id: 555462-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	5.64	247	249	99	252	100	90-110	1	20	mg/kg	06.19.17 13:13	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3020141 Matrix: Soil Date Prep: 06.19.17
Parent Sample Id: 555462-002 MS Sample Id: 555462-002 S MSD Sample Id: 555462-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	11.2	246	257	100	257	100	90-110	0	20	mg/kg	06.19.17 14:59	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3020148 Matrix: Soil Date Prep: 06.19.17
Parent Sample Id: 555360-001 MS Sample Id: 555360-001 S MSD Sample Id: 555360-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	19.1	249	272	102	280	105	90-110	3	20	mg/kg	06.19.17 21:51	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3020148 Matrix: Soil Date Prep: 06.19.17
Parent Sample Id: 555475-005 MS Sample Id: 555475-005 S MSD Sample Id: 555475-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	336	245	575	98	576	98	90-110	0	20	mg/kg	06.19.17 20:05	

QC Summary 555475

TRC Solutions, Inc

A14 Compressor Station Field Scrubber

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3019902 Matrix: Solid Date Prep: 06.15.17
MB Sample Id: 726219-1-BLK LCS Sample Id: 726219-1-BKS LCSD Sample Id: 726219-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons	<15.0	1000	1030	103	1050	105	70-135	2	35	mg/kg	06.15.17 21:08	
Diesel Range Organics	<15.0	1000	1040	104	1060	106	70-135	2	35	mg/kg	06.15.17 21:08	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	109		102		102		70-135	%	06.15.17 21:08
o-Terphenyl	115		101		101		70-135	%	06.15.17 21:08

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3019902 Matrix: Soil Date Prep: 06.15.17
Parent Sample Id: 555308-001 MS Sample Id: 555308-001 S MSD Sample Id: 555308-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons	<15.0	998	1050	105	1000	100	70-135	5	35	mg/kg	06.15.17 22:07	
Diesel Range Organics	41.5	998	1070	103	1050	101	70-135	2	35	mg/kg	06.15.17 22:07	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	109		111		70-135	%	06.15.17 22:07
o-Terphenyl	107		106		70-135	%	06.15.17 22:07

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B
Seq Number: 3019915 Matrix: Solid Date Prep: 06.15.17
MB Sample Id: 726203-1-BLK LCS Sample Id: 726203-1-BKS LCSD Sample Id: 726203-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0832	83	0.0822	81	70-130	1	35	mg/kg	06.16.17 01:06	
Toluene	<0.00200	0.100	0.0875	88	0.0793	79	70-130	10	35	mg/kg	06.16.17 01:06	
Ethylbenzene	<0.00200	0.100	0.100	100	0.0979	97	71-129	2	35	mg/kg	06.16.17 01:06	
m,p-Xylenes	<0.00401	0.200	0.190	95	0.178	89	70-135	7	35	mg/kg	06.16.17 01:06	
o-Xylene	<0.00200	0.100	0.103	103	0.0961	95	71-133	7	35	mg/kg	06.16.17 01:06	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	84		116		111		80-120	%	06.16.17 01:06
4-Bromofluorobenzene	92		114		113		80-120	%	06.16.17 01:06

QC Summary 555475

TRC Solutions, Inc

A14 Compressor Station Field Scrubber

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3020005 | Matrix: Solid | Date Prep: 06.16.17
MB Sample Id: 726253-1-BLK | LCS Sample Id: 726253-1-BKS | LCSD Sample Id: 726253-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0985	99	0.0982	99	70-130	0	35	mg/kg	06.16.17 21:39	
Toluene	<0.00200	0.100	0.0836	84	0.0896	90	70-130	7	35	mg/kg	06.16.17 21:39	
Ethylbenzene	<0.00200	0.100	0.0885	89	0.0952	96	71-129	7	35	mg/kg	06.16.17 21:39	
m,p-Xylenes	<0.00401	0.200	0.152	76	0.168	84	70-135	10	35	mg/kg	06.16.17 21:39	
o-Xylene	<0.00200	0.100	0.0785	79	0.0908	91	71-133	15	35	mg/kg	06.16.17 21:39	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		93		97		80-120	%	06.16.17 21:39
4-Bromofluorobenzene	83		81		101		80-120	%	06.16.17 21:39

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3020111 | Matrix: Solid | Date Prep: 06.19.17
MB Sample Id: 726344-1-BLK | LCS Sample Id: 726344-1-BKS | LCSD Sample Id: 726344-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0996	0.105	105	0.101	101	70-130	4	35	mg/kg	06.19.17 08:20	
Toluene	<0.00199	0.0996	0.0888	89	0.0891	89	70-130	0	35	mg/kg	06.19.17 08:20	
Ethylbenzene	<0.00199	0.0996	0.106	106	0.101	101	71-129	5	35	mg/kg	06.19.17 08:20	
m,p-Xylenes	<0.00398	0.199	0.163	82	0.173	87	70-135	6	35	mg/kg	06.19.17 08:20	
o-Xylene	<0.00199	0.0996	0.0986	99	0.0960	96	71-133	3	35	mg/kg	06.19.17 08:20	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		85		96		80-120	%	06.19.17 08:20
4-Bromofluorobenzene	104		104		102		80-120	%	06.19.17 08:20

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3019915 | Matrix: Soil | Date Prep: 06.15.17
Parent Sample Id: 555475-001 | MS Sample Id: 555475-001 S | MSD Sample Id: 555475-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.100	0.0349	35	0.0512	51	70-130	38	35	mg/kg	06.16.17 01:39	XF
Toluene	<0.00201	0.100	0.0365	37	0.0524	53	70-130	36	35	mg/kg	06.16.17 01:39	XF
Ethylbenzene	<0.00201	0.100	0.0630	63	0.0677	68	71-129	7	35	mg/kg	06.16.17 01:39	X
m,p-Xylenes	<0.00402	0.201	0.113	56	0.112	56	70-135	1	35	mg/kg	06.16.17 01:39	X
o-Xylene	<0.00201	0.100	0.0764	76	0.0866	87	71-133	13	35	mg/kg	06.16.17 01:39	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	88		89		80-120	%	06.16.17 01:39
4-Bromofluorobenzene	86		113		80-120	%	06.16.17 01:39

QC Summary 555475

TRC Solutions, Inc

A14 Compressor Station Field Scrubber

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B

Seq Number: 3020005 Matrix: Soil Date Prep: 06.16.17

Parent Sample Id: 555475-006 MS Sample Id: 555475-006 S MSD Sample Id: 555475-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00203	0.101	0.0914	90	0.0862	85	70-130	6	35	mg/kg	06.16.17 22:12	
Toluene	<0.00203	0.101	0.0810	80	0.0774	77	70-130	5	35	mg/kg	06.16.17 22:12	
Ethylbenzene	<0.00203	0.101	0.0832	82	0.0806	80	71-129	3	35	mg/kg	06.16.17 22:12	
m,p-Xylenes	<0.00406	0.203	0.146	72	0.140	69	70-135	4	35	mg/kg	06.16.17 22:12	X
o-Xylene	<0.00203	0.101	0.0820	81	0.0752	74	71-133	9	35	mg/kg	06.16.17 22:12	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	95		96		80-120	%	06.16.17 22:12
4-Bromofluorobenzene	102		99		80-120	%	06.16.17 22:12

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B

Seq Number: 3020111 Matrix: Soil Date Prep: 06.19.17

Parent Sample Id: 555245-021 MS Sample Id: 555245-021 S MSD Sample Id: 555245-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00389	0.195	0.175	90	0.181	91	70-130	3	35	mg/kg	06.19.17 09:02	
Toluene	0.0115	0.195	0.157	75	0.170	80	70-130	8	35	mg/kg	06.19.17 09:02	
Ethylbenzene	<0.00389	0.195	0.171	88	0.168	85	71-129	2	35	mg/kg	06.19.17 09:02	
m,p-Xylenes	0.00913	0.389	0.297	74	0.300	74	70-135	1	35	mg/kg	06.19.17 09:02	
o-Xylene	<0.00389	0.195	0.161	83	0.167	84	71-133	4	35	mg/kg	06.19.17 09:02	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	97		94		80-120	%	06.19.17 09:02
4-Bromofluorobenzene	103		115		80-120	%	06.19.17 09:02

Xenco Laboratories

The Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

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

Project Manager: Nikki Green

Company Name: TRC Environmental Corporation

Company Address: 2057 Commerce Drive

City/State/Zip: Midland, Texas 79703

Telephone No: 432.520.7720 Fax No:

Sampler Signature: for Nikki Green

e-mail: rose.slade@energytransfer.com
ngreen@trcsolutions.com

Project Name: A14 Compressor Station Sump

Project #: TRC #: 273818

Project Loc: Lea County, NM

PO #:

Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #: 555475

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1 (8015M) 8015B	TOTAL: TPH: TX 1005	TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides E 300.1			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard 3-Day TAT
	BH-1 4'			6/13/2017	1151		1	x								Soil	x									x			x				x
	SW-1 3'			6/13/2017	1205		1	x								Soil	x									x			x				x
	NW-1 3'			6/13/2017	1217		1	x								Soil	x									x			x				x
	BH-4 1'			6/14/2017	1700		1	x								Soil	x									x			x				x
	EW-1 3'			6/13/2017	1222		1	x								Soil	x									x			x				x
	BH-2 3'			6/14/2017	1000		1	x								Soil	x									x			x				x
	SW-2 2'			6/14/2017	1015		1	x								Soil	x									x			x				x
	NW-2 2'			6/14/2017	1027		1	x								Soil	x									x			x				x
	BH-5 1'			6/14/2017	1705		1	x								Soil	x									x			x				x

Special Instructions:

Bill to Rose Slade at Energy Transfer.

Relinquished by:	Date	Time	Received by:	Date	Time
	6/15/17	9:30		6/15/17	9:30
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time

Temp: 2.8 IR ID:R-8
CF:(0-6: -0.2°C)
(6-23: +0.2°C)
Corrected Temp: 2.6

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N
by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: °C

Xenco Laboratories

The Environmental Lab of Texas

12600 West I-20 East
Odessa, Texas 79765

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Project Manager: Nikki Green

Company Name: TRC Environmental Corporation

Company Address: 2057 Commerce Drive

City/State/Zip: Midland, Texas 79703

Telephone No: 432.520.7720

Fax No:

Sampler Signature: [signature] for Nikki Green

e-mail: rose.slade@energytransfer.com ngreen@trcsolutions.com

Project Name: A14 Compressor Station ~~Sump~~ Field Scrubber

Project #: TRC #: 273818

Project Loc: Lea County, NM

PO #:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

(lab use only)
ORDER #: 555475

Analyze For: TCLP: / TOTAL: X

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix (DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other)	TPH: 418.1 (8015M) 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX (8021B)/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides E 300.1			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard 3-Day TAT
	BH-1 4'			6/13/2017	1151		1	x								Soil	x								x			x				x
	SW-1 3'			6/13/2017	1205		1	x								Soil	x								x			x				x
	NW-1 3'			6/13/2017	1217		1	x								Soil	x								x			x				x
	BH-4 1'			6/14/2017	1700		1	x								Soil	x								x			x				x
	EW-1 3'			6/13/2017	1222		1	x								Soil	x								x			x				x
	BH-2 3'			6/14/2017	1000		1	x								Soil	x								x			x				x
	SW-2 2'			6/14/2017	1015		1	x								Soil	x								x			x				x
	NW-2 2'			6/14/2017	1027		1	x								Soil	x								x			x				x
	BH-5 1'			6/14/2017	1705		1	x								Soil	x								x			x				x

Special Instructions:

Bill to Rose Slade at Energy Transfer.

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	6/15/17	9:30	[signature]	6/15/17	9:30
Relinquished by: [signature]	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time

Temp: 2.8 IR ID:R-8
CF:(0-6: -0.2°C)
(6-23: +0.2°C)
Corrected Temp: 2.6

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N
by Sampler/Client Rep. ?	Y	N
by Courier? UPS DHL FedEx Lone Star		

Temperature Upon Receipt: °C

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: TRC Solutions, Inc

Date/ Time Received: 06/15/2017 09:30:00 AM

Work Order #: 555475

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

Temperature Measuring device used : R-8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	2.6
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seal present on shipping container/ cooler?	**N/A**
#5 *Custody Seals intact on shipping container/ cooler?	**N/A**
#6 Custody Seals intact on sample bottles?	**N/A**
#7 *Custody Seals Signed and dated?	**N/A**
#8 *Chain of Custody present?	**Yes**
#9 Sample instructions complete on Chain of Custody?	**Yes**
#10 Any missing/extra samples?	**No**
#11 Chain of Custody signed when relinquished/ received?	**Yes**
#12 Chain of Custody agrees with sample label(s)?	**Yes**
#13 Container label(s) legible and intact?	**Yes**
#14 Sample matrix/ properties agree with Chain of Custody?	**Yes**
#15 Samples in proper container/ bottle?	**Yes**
#16 Samples properly preserved?	**Yes**
#17 Sample container(s) intact?	**Yes**
#18 Sufficient sample amount for indicated test(s)?	**Yes**
#19 All samples received within hold time?	**Yes**
#20 Subcontract of sample(s)?	**No**
#21 VOC samples have zero headspace?	**N/A**

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

Analyst: PH Device/Lot#:

Checklist completed by: Mary Alexis Negron Date: 06/15/2017
Mary Negron

Checklist reviewed by: Holly Taylor Date: 06/16/2017
Holly Taylor

Certificate of Analysis Summary 555847

TRC Solutions, Inc, Midland, TX

Project Name: A-14 Field Scrubber

Project Id:

Contact: Nikki Green

Project Location: Lea County, NM

Date Received in Lab: Wed Jun-21-17 08:40 am

Report Date: 26-JUN-17

Project Manager: Kelsey Brooks

Analysis Requested											
	Lab Id:	555847-001		555847-002		555847-003					
	Field Id:	BH-3 2'		NW-3 1'		SW-3 1'					
	Depth:	2- ft		1- ft		1- ft					
	Matrix:	SOIL		SOIL		SOIL					
	Sampled:	Jun-15-17 14:00		Jun-15-17 14:00		Jun-15-17 14:00					
BTEX by EPA 8021B	***Extracted:***	Jun-24-17 11:30		Jun-24-17 11:30		Jun-24-17 11:30					
	Analyzed:	Jun-25-17 06:37		Jun-25-17 06:53		Jun-25-17 07:09					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		<0.00199	0.00199	<0.00201	0.00201	<0.00202	0.00202				
Toluene		<0.00199	0.00199	<0.00201	0.00201	<0.00202	0.00202				
Ethylbenzene		<0.00199	0.00199	<0.00201	0.00201	<0.00202	0.00202				
m,p-Xylenes		<0.00398	0.00398	<0.00402	0.00402	<0.00404	0.00404				
o-Xylene		<0.00199	0.00199	<0.00201	0.00201	<0.00202	0.00202				
Total Xylenes		<0.00199	0.00199	<0.00201	0.00201	<0.00202	0.00202				
Total BTEX		<0.00199	0.00199	<0.00201	0.00201	<0.00202	0.00202				
Chloride by EPA 300	***Extracted:***	Jun-26-17 10:05		Jun-26-17 10:05		Jun-26-17 10:05					
	Analyzed:	Jun-26-17 11:58		Jun-26-17 12:05		Jun-26-17 12:13					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		61.0	4.99	114	4.97	20.6	4.97				
TPH by SW8015 Mod	***Extracted:***	Jun-24-17 16:00		Jun-24-17 16:00		Jun-24-17 16:00					
	Analyzed:	Jun-25-17 06:54		Jun-25-17 07:15		Jun-25-17 07:36					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons		<15.0	15.0	<15.0	15.0	<15.0	15.0				
Diesel Range Organics		37.3	15.0	65.7	15.0	<15.0	15.0				
Oil Range Hydrocarbons		<15.0	15.0	15.7	15.0	<15.0	15.0				
Total TPH		37.3	15.0	81.4	15.0	<15.0	15.0				

Kelsey Brooks
Project Manager

Analytical Report 555847

for

TRC Solutions, Inc

Project Manager: Nikki Green

A-14 Field Scrubber

26-JUN-17

Collected By: Client

1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215), 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)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

26-JUN-17

Project Manager: **Nikki Green**
TRC Solutions, Inc
2057 Commerce
Midland, TX 79703

Reference: XENCO Report No(s): **555847**
A-14 Field Scrubber
Project Address: Lea County, NM

Nikki Green:

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) 555847. 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. 555847 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 555847

TRC Solutions, Inc, Midland, TX

A-14 Field Scrubber

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH-3 2'	S	06-15-17 14:00	2 ft	555847-001
NW-3 1'	S	06-15-17 14:00	1 ft	555847-002
SW-3 1'	S	06-15-17 14:00	1 ft	555847-003

Client Name: TRC Solutions, Inc
Project Name: A-14 Field Scrubber

Project ID:
Work Order Number(s): *555847*

Report Date: *26-JUN-17*
Date Received: *06/21/2017*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:
Batch: LBA-3020665 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analytical Results 555847

TRC Solutions, Inc, Midland, TX

A-14 Field Scrubber

Sample Id:	**BH-3 2'**	Matrix:	Soil	Date Received:	06.21.17 08.40
Lab Sample Id:	555847-001	Date Collected:	06.15.17 14.00	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MGO			% Moisture:	
Analyst:	MGO	Date Prep:	06.26.17 10.05	Basis:	Wet Weight
Seq Number:	3020684				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**61.0**	4.99	mg/kg	06.26.17 11.58		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.24.17 16.00	Basis:	Wet Weight
Seq Number:	3020771				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<15.0	15.0	mg/kg	06.25.17 06.54	U	1
Diesel Range Organics	C10C28DRO	**37.3**	15.0	mg/kg	06.25.17 06.54		1
Oil Range Hydrocarbons	PHCG2835	<15.0	15.0	mg/kg	06.25.17 06.54	U	1
Total TPH	PHC635	**37.3**	15.0	mg/kg	06.25.17 06.54		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	06.25.17 06.54	
o-Terphenyl	84-15-1	99	%	70-135	06.25.17 06.54	

Certificate of Analytical Results 555847

TRC Solutions, Inc, Midland, TX

A-14 Field Scrubber

Sample Id:	**BH-3 2'**	Matrix:	Soil	Date Received:	06.21.17 08.40
Lab Sample Id:	555847-001	Date Collected:	06.15.17 14.00	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	06.24.17 11.30	Basis:	Wet Weight
Seq Number:	3020665				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.25.17 06.37	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.25.17 06.37	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.25.17 06.37	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.25.17 06.37	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.25.17 06.37	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.25.17 06.37	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.25.17 06.37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	80-120	06.25.17 06.37	
4-Bromofluorobenzene	460-00-4	94	%	80-120	06.25.17 06.37	

Certificate of Analytical Results 555847

TRC Solutions, Inc, Midland, TX

A-14 Field Scrubber

Sample Id:	**NW-3 1'**	Matrix:	Soil	Date Received:	06.21.17 08.40
Lab Sample Id:	555847-002	Date Collected:	06.15.17 14.00	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MGO			% Moisture:	
Analyst:	MGO	Date Prep:	06.26.17 10.05	Basis:	Wet Weight
Seq Number:	3020684				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**114**	4.97	mg/kg	06.26.17 12.05		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.24.17 16.00	Basis:	Wet Weight
Seq Number:	3020771				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<15.0	15.0	mg/kg	06.25.17 07.15	U	1
Diesel Range Organics	C10C28DRO	**65.7**	15.0	mg/kg	06.25.17 07.15		1
Oil Range Hydrocarbons	PHCG2835	**15.7**	15.0	mg/kg	06.25.17 07.15		1
Total TPH	PHC635	**81.4**	15.0	mg/kg	06.25.17 07.15		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-135	06.25.17 07.15	
o-Terphenyl	84-15-1	101	%	70-135	06.25.17 07.15	

Certificate of Analytical Results 555847

TRC Solutions, Inc, Midland, TX

A-14 Field Scrubber

Sample Id:	**NW-3 1'**	Matrix:	Soil	Date Received:	06.21.17 08.40
Lab Sample Id:	555847-002	Date Collected:	06.15.17 14.00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	06.24.17 11.30	Basis:	Wet Weight
Seq Number:	3020665				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	06.25.17 06.53	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	06.25.17 06.53	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	06.25.17 06.53	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	06.25.17 06.53	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	06.25.17 06.53	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	06.25.17 06.53	U	1
Total BTEX		<0.00201	0.00201	mg/kg	06.25.17 06.53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	85	%	80-120	06.25.17 06.53	
1,4-Difluorobenzene	540-36-3	84	%	80-120	06.25.17 06.53	

Certificate of Analytical Results 555847

TRC Solutions, Inc, Midland, TX

A-14 Field Scrubber

Sample Id:	**SW-3 1'**	Matrix:	Soil	Date Received:	06.21.17 08.40
Lab Sample Id:	555847-003	Date Collected:	06.15.17 14.00	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MGO			% Moisture:	
Analyst:	MGO	Date Prep:	06.26.17 10.05	Basis:	Wet Weight
Seq Number:	3020684				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**20.6**	4.97	mg/kg	06.26.17 12.13		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.24.17 16.00	Basis:	Wet Weight
Seq Number:	3020771				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<15.0	15.0	mg/kg	06.25.17 07.36	U	1
Diesel Range Organics	C10C28DRO	<15.0	15.0	mg/kg	06.25.17 07.36	U	1
Oil Range Hydrocarbons	PHCG2835	<15.0	15.0	mg/kg	06.25.17 07.36	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.25.17 07.36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-135	06.25.17 07.36	
o-Terphenyl	84-15-1	105	%	70-135	06.25.17 07.36	

Certificate of Analytical Results 555847

TRC Solutions, Inc, Midland, TX

A-14 Field Scrubber

Sample Id:	**SW-3 1'**	Matrix:	Soil	Date Received:	06.21.17 08.40
Lab Sample Id:	555847-003	Date Collected:	06.15.17 14.00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	06.24.17 11.30	Basis:	Wet Weight
Seq Number:	3020665				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	06.25.17 07.09	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	06.25.17 07.09	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	06.25.17 07.09	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	06.25.17 07.09	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	06.25.17 07.09	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	06.25.17 07.09	U	1
Total BTEX		<0.00202	0.00202	mg/kg	06.25.17 07.09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	94	%	80-120	06.25.17 07.09	
1,4-Difluorobenzene	540-36-3	95	%	80-120	06.25.17 07.09	

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	

QC Summary 555847

TRC Solutions, Inc

A-14 Field Scrubber

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3020684 Matrix: Solid Date Prep: 06.26.17
MB Sample Id: 726721-1-BLK LCS Sample Id: 726721-1-BKS LCSD Sample Id: 726721-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	247	99	248	99	90-110	0	20	mg/kg	06.26.17 10:21	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3020684 Matrix: Soil Date Prep: 06.26.17
Parent Sample Id: 555846-002 MS Sample Id: 555846-002 S MSD Sample Id: 555846-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	5.85	247	245	97	244	96	90-110	0	20	mg/kg	06.26.17 12:36	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3020684 Matrix: Soil Date Prep: 06.26.17
Parent Sample Id: 556064-003 MS Sample Id: 556064-003 S MSD Sample Id: 556064-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	16.6	246	261	99	259	99	90-110	1	20	mg/kg	06.26.17 10:49	

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3020771 Matrix: Solid Date Prep: 06.24.17
MB Sample Id: 726685-1-BLK LCS Sample Id: 726685-1-BKS LCSD Sample Id: 726685-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons	<15.0	1000	992	99	1020	102	70-135	3	35	mg/kg	06.25.17 00:55	
Diesel Range Organics	<15.0	1000	1010	101	979	98	70-135	3	35	mg/kg	06.25.17 00:55	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	113		108		114		70-135	%	06.25.17 00:55
o-Terphenyl	122		100		107		70-135	%	06.25.17 00:55

QC Summary 555847

TRC Solutions, Inc

A-14 Field Scrubber

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3020771 Matrix: Soil Date Prep: 06.24.17
Parent Sample Id: 555795-001 MS Sample Id: 555795-001 S MSD Sample Id: 555795-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons	<15.0	997	1060	106	974	98	70-135	8	35	mg/kg	06.25.17 01:58	
Diesel Range Organics	<15.0	997	998	100	987	99	70-135	1	35	mg/kg	06.25.17 01:58	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	107		100		70-135	%	06.25.17 01:58
o-Terphenyl	101		98		70-135	%	06.25.17 01:58

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B
Seq Number: 3020665 Matrix: Solid Date Prep: 06.24.17
MB Sample Id: 726706-1-BLK LCS Sample Id: 726706-1-BKS LCSD Sample Id: 726706-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.107	107	0.0950	96	70-130	12	35	mg/kg	06.25.17 03:55	
Toluene	<0.00200	0.100	0.101	101	0.0876	88	70-130	14	35	mg/kg	06.25.17 03:55	
Ethylbenzene	<0.00200	0.100	0.111	111	0.0966	97	71-129	14	35	mg/kg	06.25.17 03:55	
m,p-Xylenes	<0.00401	0.200	0.200	100	0.173	87	70-135	14	35	mg/kg	06.25.17 03:55	
o-Xylene	<0.00200	0.100	0.106	106	0.0914	92	71-133	15	35	mg/kg	06.25.17 03:55	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		90		93		80-120	%	06.25.17 03:55
4-Bromofluorobenzene	98		93		92		80-120	%	06.25.17 03:55

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B
Seq Number: 3020665 Matrix: Soil Date Prep: 06.24.17
Parent Sample Id: 556138-002 MS Sample Id: 556138-002 S MSD Sample Id: 556138-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0785	79	0.0898	90	70-130	13	35	mg/kg	06.25.17 04:27	
Toluene	<0.00200	0.100	0.0785	79	0.0795	80	70-130	1	35	mg/kg	06.25.17 04:27	
Ethylbenzene	<0.00200	0.100	0.0770	77	0.0764	76	71-129	1	35	mg/kg	06.25.17 04:27	
m,p-Xylenes	0.00688	0.200	0.144	69	0.135	64	70-135	6	35	mg/kg	06.25.17 04:27	X
o-Xylene	<0.00200	0.100	0.0771	77	0.0762	76	71-133	1	35	mg/kg	06.25.17 04:27	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	112		112		80-120	%	06.25.17 04:27
4-Bromofluorobenzene	116		112		80-120	%	06.25.17 04:27

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Page 1 Of 1

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Xenco Quote #
Xenco Job # 555847

Client / Reporting Information

Company Name / Branch: TRC Environmental Corporation
Company Address: 2057 Commerce Drive, Midland, TX 79703
Email: ngreen@trcsolutions.com; rose.slade@energytransfer.com
Phone No:
Project Contact: Nikki Green
Samplers's Name: N.GREEN

Project Information

Project Name/Number: A-14 Field Scrubber
Project Location: Lea County, NM
Invoice To: Rose Slade, ETC Field Services, San Antonio
PO Number:

Analytical Information

Matrix Codes

W = Water
S = Soil/Sed/Solid
GW =Ground Water
DW = Drinking Water
P = Product
SW = Surface water
SL = Sludge
OW =Ocean/Sea Water
WI = Wipe
O = Oil
WW= Waste Water
A = Air

No.	Field ID / Point of Collection	Collection: Sample Depth	Date	Time	Matrix	# of bottles	Number of preserved bottles: HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	ICE	TPH by Method 8015M	BTEX by Method 2081B	Chloride by EPA 300.1	Field Comments
1	BH-3 2'	2'	6/15/2017	1400	S	1- 4oz glass								X	X	X	X	
2	NW-3 1'	1'	6/16/2017	1400	S	1- 4oz glass								X	X	X	X	
3	SW-3 1'	1'	6/16/2017	1410	S	1- 4oz glass								X	X	X	X	
4																		
5																		
6																		
7																		
8																		
9																		
10																		

Turnaround Time (Business days)

- [ ] Same Day TAT
- [ ] 5 Day TAT
- [ ] Next Day EMERGENCY
- [ ] 7 Day TAT
- [ ] 2 Day EMERGENCY
- [ ] Contract TAT
- [x] 3 Day EMERGENCY

TAT Starts Day received by Lab, if received by 5:00 pm

Data Deliverable Information

- [ ] Level II Std QC
- [ ] Level IV (Full Data Pkg /raw data)
- [ ] Level III Std QC+ Forms
- [ ] TRRP Level IV
- [ ] Level 3 (CLP Forms)
- [ ] UST / RG -411
- [ ] TRRP Checklist

Notes:

INVOICE TO ETC

FED-EX / UPS: Trac

Temp: 3.7 IR ID:R-8
CF:(0-6: -0.2°C)
(6-23: +0.2°C)
Corrected Temp: 3.5

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

	Relinquished by:	Date Time:	Received By:	Relinquished By:	Date Time:	Receive
1		6/21/17 0841	1	2		2
3			3	4		4
5			5	Custody Seal #	Preserved where applicable	On Ice / Cooler Temp. / Thermo. Corr. Factor

Notice: Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the Client if such loses are due to circumstances beyond the control of Xenco. A minimum charge of $75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at $5 per sample. These terms will be enforced unless previously negotiated under a fully executed client contract.

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: TRC Solutions, Inc

Date/ Time Received: 06/21/2017 08:40:00 AM

Work Order #: 555847

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)?	3.5
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seal present on shipping container/ cooler?	**N/A**
#5 *Custody Seals intact on shipping container/ cooler?	**N/A**
#6 Custody Seals intact on sample bottles?	**N/A**
#7 *Custody Seals Signed and dated?	**N/A**
#8 *Chain of Custody present?	**Yes**
#9 Sample instructions complete on Chain of Custody?	**Yes**
#10 Any missing/extra samples?	**No**
#11 Chain of Custody signed when relinquished/ received?	**Yes**
#12 Chain of Custody agrees with sample label(s)?	**Yes**
#13 Container label(s) legible and intact?	**Yes**
#14 Sample matrix/ properties agree with Chain of Custody?	**Yes**
#15 Samples in proper container/ bottle?	**Yes**
#16 Samples properly preserved?	**Yes**
#17 Sample container(s) intact?	**Yes**
#18 Sufficient sample amount for indicated test(s)?	**Yes**
#19 All samples received within hold time?	**Yes**
#20 Subcontract of sample(s)?	**N/A**
#21 VOC samples have zero headspace?	**N/A**

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

Analyst: PH Device/Lot#:

Checklist completed by: Marithza Anaya Date: 06/21/2017
Marithza Anaya

Checklist reviewed by: Kelsey Brooks Date: 06/21/2017
Kelsey Brooks

Certificate of Analysis Summary 557335

TRC Solutions, Inc, Midland, TX

Project Name: A14 Compressor Station Sump

Project Id: TRC#273818
Contact: Nikki Green
Project Location: Lea County NM

Date Received in Lab: Wed Jul-12-17 12:09 pm
Report Date: 14-JUL-17
Project Manager: Kelsey Brooks

Analysis Requested							
	Lab Id:	557335-001					
	Field Id:	KM-1 3"					
	Depth:	3- In					
	Matrix:	SOIL					
	Sampled:	Jul-11-17 11:00					
BTEX by EPA 8021B	***Extracted:***	Jul-13-17 17:30					
	Analyzed:	Jul-14-17 09:36					
	Units/RL:	mg/kg RL					
Benzene		<0.00200 0.00200					
Toluene		<0.00200 0.00200					
Ethylbenzene		<0.00200 0.00200					
m,p-Xylenes		<0.00399 0.00399					
o-Xylene		<0.00200 0.00200					
Total Xylenes		<0.00200 0.00200					
Total BTEX		<0.00200 0.00200					
Chloride by EPA 300	***Extracted:***	Jul-14-17 14:00					
	Analyzed:	Jul-14-17 14:43					
	Units/RL:	mg/kg RL					
Chloride		10.9 4.92					
TPH by SW8015 Mod	***Extracted:***	Jul-12-17 14:00					
	Analyzed:	Jul-12-17 16:36					
	Units/RL:	mg/kg RL					
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0					
Diesel Range Organics (DRO)		1250 15.0					
Oil Range Hydrocarbons (ORO)		5440 15.0					
Total TPH		6690 15.0					

Kelsey Brooks
Project Manager

Analytical Report 557335

for

TRC Solutions, Inc

Project Manager: Nikki Green

A14 Compressor Station Sump

TRC#273818

14-JUL-17

Collected By: Client

1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215), 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)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

14-JUL-17

Project Manager: **Nikki Green**
TRC Solutions, Inc
2057 Commerce
Midland, TX 79703

Reference: XENCO Report No(s): **557335**
A14 Compressor Station Sump
Project Address: Lea County NM

Nikki Green:

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) 557335. 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. 557335 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 557335

TRC Solutions, Inc, Midland, TX

A14 Compressor Station Sump

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
KM-1 3"	S	07-11-17 11:00	3 In	557335-001

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3022274 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analytical Results 557335

TRC Solutions, Inc, Midland, TX

A14 Compressor Station Sump

Sample Id:	**KM-1 3"**	Matrix:	Soil	Date Received:	07.12.17 12.09
Lab Sample Id:	557335-001	Date Collected:	07.11.17 11.00	Sample Depth:	3 In

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MGO			% Moisture:	
Analyst:	MGO	Date Prep:	07.14.17 14.00	Basis:	Wet Weight
Seq Number:	3022314				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**10.9**	4.92	mg/kg	07.14.17 14.43		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	07.12.17 14.00	Basis:	Wet Weight
Seq Number:	3022138				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	07.12.17 16.36	U	1
Diesel Range Organics (DRO)	C10C28DRO	**1250**	15.0	mg/kg	07.12.17 16.36		1
Oil Range Hydrocarbons (ORO)	PHCG2835	**5440**	15.0	mg/kg	07.12.17 16.36		1
Total TPH	PHC635	**6690**	15.0	mg/kg	07.12.17 16.36		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-135	07.12.17 16.36	
o-Terphenyl	84-15-1	110	%	70-135	07.12.17 16.36	

Certificate of Analytical Results 557335

TRC Solutions, Inc, Midland, TX

A14 Compressor Station Sump

Sample Id:	**KM-1 3"**	Matrix:	Soil	Date Received:	07.12.17 12.09
Lab Sample Id:	557335-001	Date Collected:	07.11.17 11.00	Sample Depth:	3 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	JUM			% Moisture:	
Analyst:	JUM	Date Prep:	07.13.17 17.30	Basis:	Wet Weight
Seq Number:	3022274				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.14.17 09.36	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.14.17 09.36	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.14.17 09.36	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	07.14.17 09.36	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.14.17 09.36	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.14.17 09.36	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.14.17 09.36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	90	%	80-120	07.14.17 09.36	
4-Bromofluorobenzene	460-00-4	115	%	80-120	07.14.17 09.36	

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

QC Summary 557335

TRC Solutions, Inc

A14 Compressor Station Sump

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3022314 Matrix: Solid Date Prep: 07.14.17
MB Sample Id: 727676-1-BLK LCS Sample Id: 727676-1-BKS LCSD Sample Id: 727676-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	250	100	253	101	90-110	1	20	mg/kg	07.14.17 14:27	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3022314 Matrix: Soil Date Prep: 07.14.17
Parent Sample Id: 557335-001 MS Sample Id: 557335-001 S MSD Sample Id: 557335-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	10.9	246	266	104	267	104	90-110	0	20	mg/kg	07.14.17 14:50	

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3022138 Matrix: Solid Date Prep: 07.12.17
MB Sample Id: 727570-1-BLK LCS Sample Id: 727570-1-BKS LCSD Sample Id: 727570-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	960	96	983	98	70-135	2	35	mg/kg	07.12.17 14:59	
Diesel Range Organics (DRO)	<15.0	1000	948	95	960	96	70-135	1	35	mg/kg	07.12.17 14:59	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	121		114		109		70-135	%	07.12.17 14:59
o-Terphenyl	127		112		108		70-135	%	07.12.17 14:59

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3022138 Matrix: Soil Date Prep: 07.12.17
Parent Sample Id: 557336-001 MS Sample Id: 557336-001 S MSD Sample Id: 557336-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	990	99	1030	103	70-135	4	35	mg/kg	07.12.17 17:27	
Diesel Range Organics (DRO)	43.5	1000	1020	98	1020	98	70-135	0	35	mg/kg	07.12.17 17:27	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	109		112		70-135	%	07.12.17 17:27
o-Terphenyl	108		114		70-135	%	07.12.17 17:27

QC Summary 557335

TRC Solutions, Inc

A14 Compressor Station Sump

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B

Seq Number: 3022274 Matrix: Solid Date Prep: 07.13.17

MB Sample Id: 727633-1-BLK LCS Sample Id: 727633-1-BKS LCSD Sample Id: 727633-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00198	0.0992	0.102	103	0.122	122	70-130	18	35	mg/kg	07.13.17 18:04	
Toluene	<0.00198	0.0992	0.0949	96	0.114	114	70-130	18	35	mg/kg	07.13.17 18:04	
Ethylbenzene	<0.00198	0.0992	0.0907	91	0.117	117	71-129	25	35	mg/kg	07.13.17 18:04	
m,p-Xylenes	<0.00397	0.198	0.165	83	0.209	105	70-135	24	35	mg/kg	07.13.17 18:04	
o-Xylene	<0.00198	0.0992	0.0887	89	0.115	115	71-133	26	35	mg/kg	07.13.17 18:04	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	88		99		106		80-120	%	07.13.17 18:04
4-Bromofluorobenzene	92		85		108		80-120	%	07.13.17 18:04

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B

Seq Number: 3022274 Matrix: Soil Date Prep: 07.13.17

Parent Sample Id: 557431-001 MS Sample Id: 557431-001 S MSD Sample Id: 557431-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00198	0.0992	0.0893	90	0.0957	96	70-130	7	35	mg/kg	07.13.17 18:37	
Toluene	<0.00198	0.0992	0.0971	98	0.0842	84	70-130	14	35	mg/kg	07.13.17 18:37	
Ethylbenzene	<0.00198	0.0992	0.0816	82	0.0822	82	71-129	1	35	mg/kg	07.13.17 18:37	
m,p-Xylenes	0.00444	0.198	0.164	81	0.163	79	70-135	1	35	mg/kg	07.13.17 18:37	
o-Xylene	0.00391	0.0992	0.103	100	0.0840	80	71-133	20	35	mg/kg	07.13.17 18:37	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	113		115		80-120	%	07.13.17 18:37
4-Bromofluorobenzene	118		116		80-120	%	07.13.17 18:37

Xenco Laboratories

The Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

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

Project Manager: Nikki Green

Company Name: TRC Environmental Corporation

Company Address: 2057 Commerce Drive

City/State/Zip: Midland, Texas 79703

Telephone No: 432.520.7720 Fax No:

Sampler Signature: Nikki Green e-mail: rose.slade@energytransfer.com; ngreen@trcsolutions.com

Project Name: A14 Compressor Station Sump

Project #: TRC #: 273818

Project Loc: Lea County, NM

PO #:

Report Format: [x] Standard [ ] TRRP [ ] NPDES

(lab use only) ORDER #: 557335

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP: TOTAL: TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides E 300.1			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard 3-Day TAT
	KM-1 3"			7/11/2017	1100		1	x								Soil	x								x			x			x	

Special Instructions:

Bill to Rose Slade at Energy Transfer.

Relinquished by:	Date	Time	Received by:	Date	Time
Nikki Green	7/12/17	1209	Shawnee Smith	7-12	12:09
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time

Laboratory Comments:

Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
Labels on container(s) Y N
Custody seals on container(s) Y N
Cus
Sar
Ter

Temp: 4.3 IR ID:R-8
CF:(0-6: -0.2°C)
(6-23: +0.2°C)
Corrected Temp: 4.1

Final 1.000

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: TRC Solutions, Inc

Date/ Time Received: 07/12/2017 12:09:00 PM

Work Order #: 557335

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)?	4.1
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seal present on shipping container/ cooler?	**N/A**
#5 *Custody Seals intact on shipping container/ cooler?	**N/A**
#6 Custody Seals intact on sample bottles?	**N/A**
#7 *Custody Seals Signed and dated?	**N/A**
#8 *Chain of Custody present?	**Yes**
#9 Sample instructions complete on Chain of Custody?	**Yes**
#10 Any missing/extra samples?	**No**
#11 Chain of Custody signed when relinquished/ received?	**Yes**
#12 Chain of Custody agrees with sample label(s)?	**Yes**
#13 Container label(s) legible and intact?	**Yes**
#14 Sample matrix/ properties agree with Chain of Custody?	**Yes**
#15 Samples in proper container/ bottle?	**Yes**
#16 Samples properly preserved?	**Yes**
#17 Sample container(s) intact?	**Yes**
#18 Sufficient sample amount for indicated test(s)?	**Yes**
#19 All samples received within hold time?	**Yes**
#20 Subcontract of sample(s)?	**N/A**
#21 VOC samples have zero headspace?	**N/A**

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

Analyst: PH Device/Lot#:

Checklist completed by: Jessica Kramer Date: 07/12/2017
Jessica Kramer

Checklist reviewed by: Date: 07/12/2017
Julian Martinez

Certificate of Analysis Summary 561288

TRC Solutions, Inc, Midland, TX

Project Name: A14 Compressor Station Field Scrubber

Project Id:

Contact: Nikki Green

Project Location: Lean County NM

Date Received in Lab: Fri Aug-25-17 02:35 pm

Report Date: 30-AUG-17

Project Manager: Kelsey Brooks

Analysis Requested								
	Lab Id:	561288-001						
	Field Id:	KM-1a 6"						
	Depth:							
	Matrix:	SOIL						
	Sampled:	Aug-22-17 12:00						
TPH by SW8015 Mod	***Extracted:***	Aug-28-17 16:00						
	Analyzed:	Aug-29-17 04:39						
	Units/RL:	mg/kg	RL					
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0					
Diesel Range Organics (DRO)		719	15.0					
Oil Range Hydrocarbons (ORO)		2600	15.0					
Total TPH		3319	15					

Kelsey Brooks
Project Manager

Analytical Report 561288

for

TRC Solutions, Inc

Project Manager: Nikki Green

A14 Compressor Station Field Scrubber

30-AUG-17

Collected By: Client

1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215), 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)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

30-AUG-17

Project Manager: **Nikki Green**
TRC Solutions, Inc
2057 Commerce
Midland, TX 79703

Reference: XENCO Report No(s): **561288**
A14 Compressor Station Field Scrubber
Project Address: Lean County NM

Nikki Green:

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) 561288. 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. 561288 will be filed for 45 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 561288

TRC Solutions, Inc, Midland, TX

A14 Compressor Station Field Scrubber

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
KM-1a 6"	S	08-22-17 12:00		561288-001

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Certificate of Analytical Results 561288

TRC Solutions, Inc, Midland, TX

A14 Compressor Station Field Scrubber

Sample Id:	**KM-1a 6''**	Matrix:	Soil	Date Received:	08.25.17 14.35
Lab Sample Id:	561288-001	Date Collected:	08.22.17 12.00		
Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	08.28.17 16.00	Basis:	Wet Weight
Seq Number:	3026146				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	08.29.17 04.39	U	1
Diesel Range Organics (DRO)	C10C28DRO	**719**	15.0	mg/kg	08.29.17 04.39		1
Oil Range Hydrocarbons (ORO)	PHCG2835	**2600**	15.0	mg/kg	08.29.17 04.39		1
Total TPH	PHC635	**3319**	15	mg/kg	08.29.17 04.39		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	08.29.17 04.39	
o-Terphenyl	84-15-1	94	%	70-135	08.29.17 04.39	

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	

QC Summary 561288

TRC Solutions, Inc

A14 Compressor Station Field Scrubber

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P

Seq Number: 3026146 Matrix: Solid Date Prep: 08.28.17

MB Sample Id: 730045-1-BLK LCS Sample Id: 730045-1-BKS LCSD Sample Id: 730045-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	898	90	952	95	70-135	6	35	mg/kg	08.29.17 02:12	
Diesel Range Organics (DRO)	<15.0	1000	967	97	1020	102	70-135	5	35	mg/kg	08.29.17 02:12	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	93		92		100		70-135	%	08.29.17 02:12
o-Terphenyl	95		89		100		70-135	%	08.29.17 02:12

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P

Seq Number: 3026146 Matrix: Soil Date Prep: 08.28.17

Parent Sample Id: 561389-001 MS Sample Id: 561389-001 S MSD Sample Id: 561389-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	998	1050	105	893	89	70-135	16	35	mg/kg	08.29.17 03:14	
Diesel Range Organics (DRO)	99.9	998	1120	102	988	89	70-135	13	35	mg/kg	08.29.17 03:14	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	111		89		70-135	%	08.29.17 03:14
o-Terphenyl	99		82		70-135	%	08.29.17 03:14

Xenco Laboratories

The Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

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

Project Manager: Nikki Green

Company Name: TRC Environmental Corporation

Company Address: 2057 Commerce Drive

City/State/Zip: Midland, Texas 79703

Telephone No: 432.520.7720 Fax No:

Sampler Signature: Nikki Green e-mail: rose.slade@energytransfer.com; ngreen@trcsolutions.com

Project Name: A14 Compressor Station Field Scrubber

Project #: TRC #: 273817

Project Loc: Lea County, NM

PO #:

Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)

ORDER #: 561288

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge; GW = Groundwater S=Soil/Solid; NP=Non-Potable Specify Other	Analyze For: TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides E 300.1	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT for Rose Slade
	KM-1a 6"			8/22/2017	1200		1	X								Soil	X													X

Special Instructions:

Bill to Rose Slade at Energy Transfer.

Relinquished by: Nikki Green	Date 8/25/17	Time 1000	Received by:	Date 8/25/17	Time 1330
Relinquished by:	Date 8/25/17	Time 1410	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time

Laboratory Comments:

Sample Containers Intact? Y N

Temp: 3.3 IR ID:R-8

CF:(0-6: -0.2°C)

(6-23: +0.2°C)

Corrected Temp: 3.1

Temperature Upon Receipt: °C

Final 1.000

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: TRC Solutions, Inc

Date/ Time Received: 08/25/2017 02:35:00 PM

Work Order #: 561288

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

Temperature Measuring device used : r-8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	3.1
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seal present on shipping container/ cooler?	**N/A**
#5 *Custody Seals intact on shipping container/ cooler?	**N/A**
#6 Custody Seals intact on sample bottles?	**N/A**
#7 *Custody Seals Signed and dated?	**N/A**
#8 *Chain of Custody present?	**Yes**
#9 Sample instructions complete on Chain of Custody?	**Yes**
#10 Any missing/extra samples?	**No**
#11 Chain of Custody signed when relinquished/ received?	**Yes**
#12 Chain of Custody agrees with sample label(s)?	**Yes**
#13 Container label(s) legible and intact?	**Yes**
#14 Sample matrix/ properties agree with Chain of Custody?	**Yes**
#15 Samples in proper container/ bottle?	**Yes**
#16 Samples properly preserved?	**Yes**
#17 Sample container(s) intact?	**Yes**
#18 Sufficient sample amount for indicated test(s)?	**Yes**
#19 All samples received within hold time?	**Yes**
#20 Subcontract of sample(s)?	**No**
#21 VOC samples have zero headspace?	**N/A**

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

Analyst:

PH Device/Lot#:

Checklist completed by: Jessica Kramer
Jessica Kramer
Date: 08/25/2017

Checklist reviewed by: Kelsey Brooks
Kelsey Brooks
Date: 08/28/2017

Photographic Documentation

Client: ETC Field Services, LLC **Prepared by:** TRC Environmental Corp.
Project Name: A-14 Compressor Station Field Scrubber **Location:** Lea County, NM

Photograph No. 1 **Date:** **February 23, 2017** **Description:** **Looking northwest at Field Scrubber.**	
Photograph No. 2 **Date:** **February 23, 2017** **Description:** **Looking northeast at Field Scrubber. Release in foreground.**	

Photographic Documentation

Client: ETC Field Services, LLC **Prepared by:** TRC Environmental Corp.
Project Name: A-14 Compressor Station Field Scrubber **Location:** Lea County, NM

Photograph No. 3 **Date:** **March 23, 2017** **Description:** **Looking east following hand auger delineation activities.**	
Photograph No. 4 **Date:** **May 9, 2017** **Description:** **Looking west during backhoe trench activities at sample point FS-1a.**	

Photographic Documentation

Client: ETC Field Services, LLC **Prepared by:** TRC Environmental Corp.
Project Name: A-14 Compressor Station Field Scrubber **Location:** Lea County, NM

Photograph No. 5 **Date:** **June 16, 2017** **Description:** **Looking east following excavation activities.**	
Photograph No. 6 **Date:** **June 16, 2017** **Description:** **Looking east following excavation activities.**	

Photographic Documentation

Client: ETC Field Services, LLC **Prepared by:** TRC Environmental Corp.
Project Name: A-14 Compressor Station Field Scrubber **Location:** Lea County, NM

Photograph No. 7 **Date:** **June 16, 2017** **Description:** **Looking northwest following excavation activities.**	
Photograph No. 8 **Date:** **June 16, 2017** **Description:** **Looking west following excavation activities.**	

Photographic Documentation

Client: ETC Field Services, LLC **Prepared by:** TRC Environmental Corp.
Project Name: A-14 Compressor Station Field Scrubber **Location:** Lea County, NM

Photograph No. 9 **Date:** **October 5, 2017** **Description:** **Looking northeast following backfill activities.**	
Photograph No. 10 **Date:** **October 5, 2017** **Description:** **Looking northwest following backfill activities.**	

SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. 430922

LEASE OPERATOR/SHIPPER/COMPANY: ETC

LEASE NAME: W.H. Compressor Station Load Site

TRANSPORTER COMPANY: Aldo's Trucking | **TIME** 1:21 AM/PM

DATE: 9.2011 **VEHICLE NO:** 02 **GENERATOR COMPANY NAME'S NAME:** Key Slate

CHARGE TO: ETC | **RIG NAME AND NUMBER**

TYPE OF MATERIAL

[ ] Production Water	[ ] Drilling Fluids	[ ] Rinsate
[ ] Tank Bottoms	[X] Contaminated Soil	[ ] Jet Out
[ ] Solids	[ ] BS&W Content:	[ ] Call Out

Description: O/D

RRC or API # | **C-133#**

VOLUME OF MATERIAL [ ] BBLS. _____ ; [X] YARD 20 ; [ ] _____

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

THIS WILL CERTIFY *that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.*

DRIVER: _____
(SIGNATURE)

FACILITY REPRESENTATIVE: _____
(SIGNATURE)

White - Sundance Canary - Sundance Acct #1 Pink - Transporter

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(575) 394-2511

TICKET No. 430921

LEASE OPERATOR/SHIPPER/COMPANY:

LEASE NAME:

TRANSPORTER COMPANY: TIME AM/PM

DATE: VEHICLE NO: GENERATOR COMPANY MAN'S NAME:

CHARGE TO: RIG NAME AND NUMBER

TYPE OF MATERIAL

[ ] Production Water	[ ] Drilling Fluids	[ ] Rinsate
[ ] Tank Bottoms	[X] Contaminated Soil	[ ] Jet Out
[ ] Solids	[ ] BS&W Content:	[ ] Call Out

Description: OIL

RRC or API # C-133#

VOLUME OF MATERIAL [ ] BBLS. : [ ] YARD 20 : [ ]

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: (SIGNATURE)

FACILITY REPRESENTATIVE: (SIGNATURE)

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(575) 394-2511

TICKET No. 430919

LEASE OPERATOR/SHIPPER/COMPANY: ETC

LEASE NAME: B-14 Compressor Station Fuel Scrubber

TRANSPORTER COMPANY: Crock "A" Trucking | TIME 1:11 AM/PM

DATE: 1-20-17 VEHICLE NO: 24 GENERATOR COMPANY MAN'S NAME: Rose Slade

CHARGE TO: ETC | RIG NAME AND NUMBER

TYPE OF MATERIAL

[ ] Production Water	[ ] Drilling Fluids	[ ] Rinsate
[ ] Tank Bottoms	[X] Contaminated Soil	[ ] Jet Out
[ ] Solids	[ ] BS&W Content:	[ ] Call Out

Description: O/D

RRC or API # C-133#

VOLUME OF MATERIAL [ ] BBLS. ______ : [X] YARD 20 : [ ] ______

AS A CONDITION TO SUNDANCE SERVICES, INC'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: [signature]
(SIGNATURE)

FACILITY REPRESENTATIVE: [signature]
(SIGNATURE)

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SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. 431015

LEASE OPERATOR/SHIPPER/COMPANY:

LEASE NAME:

TRANSPORTER COMPANY: **TIME** AM/PM

DATE: **VEHICLE NO:** **GENERATOR COMPANY MAN'S NAME:**

CHARGE TO: **RIG NAME AND NUMBER:**

TYPE OF MATERIAL

[ ] Production Water [ ] Drilling Fluids [ ] Rinsate
[ ] Tank Bottoms [X] Contaminated Soil [ ] Jet Out
[ ] Solids [ ] BS&W Content: [ ] Call Out

Description: O/D

RRC or API # **C-133#**

VOLUME OF MATERIAL [ ] BBLS. _____; [X] YARD 12; [ ] _____

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: _____
(SIGNATURE)

FACILITY REPRESENTATIVE: _____
(SIGNATURE)

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SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. 431018

LEASE OPERATOR/SHIPPER/COMPANY:

LEASE NAME:

TRANSPORTER COMPANY: | **TIME** AM/PM

DATE: **VEHICLE NO:** | GENERATOR COMPANY MAN'S NAME

CHARGE TO: | RIG NAME AND NUMBER

TYPE OF MATERIAL

[ ] Production Water	[ ] Drilling Fluids	[ ] Rinsate
[ ] Tank Bottoms	[ ] Contaminated Soil	[ ] Jet Out
[ ] Solids	[ ] BS&W Content:	[ ] Call Out

Description:

RRC or API # **C-133#**

VOLUME OF MATERIAL [ ] BBLS. : [ ] YARD : [ ]

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DRIVER:
(SIGNATURE)

FACILITY REPRESENTATIVE:
(SIGNATURE)

White - Sundance Canary - Sundance Acct #1 Pink - Transporter

SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. 431020

LEASE OPERATOR/SHIPPER/COMPANY:

LEASE NAME:

TRANSPORTER COMPANY:

TIME AM/PM

DATE: VEHICLE NO:

GENERATOR COMPANY MAN'S NAME

CHARGE TO:

RIG NAME AND NUMBER

TYPE OF MATERIAL

[ ] Production Water	[ ] Drilling Fluids	[ ] Rinsate
[ ] Tank Bottoms	[ ] Contaminated Soil	[ ] Jet Out
[ ] Solids	[ ] BS&W Content:	[ ] Call Out

Description:

RRC or API #

C-133#

VOLUME OF MATERIAL [ ] BBLS. : [ ] YARD : [ ]

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DRIVER:
(SIGNATURE)

FACILITY REPRESENTATIVE:
(SIGNATURE)

White - Sundance Canary - Sundance Acct #1 Pink - Transporter

SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. 431028

LEASE OPERATOR/SHIPPER/COMPANY:

LEASE NAME:

TRANSPORTER COMPANY: | TIME: AM/PM

DATE: VEHICLE NO: GENERATOR COMPANY MAN'S NAME:

CHARGE TO: | RIG NAME AND NUMBER

TYPE OF MATERIAL

[ ] Production Water	[ ] Drilling Fluids	[ ] Rinsate
[ ] Tank Bottoms	[ ] Contaminated Soil	[ ] Jet Out
[ ] Solids	[ ] BS&W Content:	[ ] Call Out

Description:

RRC or API # C-133#

VOLUME OF MATERIAL [ ] BBLS. : [ ] YARD : [ ]

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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THIS WILL CERTIFY *that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.*

DRIVER:
(SIGNATURE)

FACILITY REPRESENTATIVE:
(SIGNATURE)

White - Sundance Canary - Sundance Acct #1 Pink - Transporter

SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. 431029

LEASE OPERATOR/SHIPPER/COMPANY: ETC

LEASE NAME: A-19 Compressor Station

TRANSPORTER COMPANY: H+K oilfield transport | TIME 10:40 AM/PM

DATE: 7-21-19 | VEHICLE NO: 10 | GENERATOR COMPANY MAN'S NAME: [illegible]

CHARGE TO: ETC | RIG NAME AND NUMBER: 432-940-5749

TYPE OF MATERIAL

[ ] Production Water | [ ] Drilling Fluids | [ ] Rinsate
[ ] Tank Bottoms | [✓] Contaminated Soil | [ ] Jet Out
[ ] Solids | [ ] BS&W Content: | [ ] Call Out

Description: C/D

RRC or API # | C-133#

VOLUME OF MATERIAL [ ] BBLS. ______ : [X] YARD 20 : [ ] ______

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DRIVER: [signature]
(SIGNATURE)

FACILITY REPRESENTATIVE: [signature]
(SIGNATURE)

White - Sundance | Canary - Sundance Acct #1 | Pink - Transporter

SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. 431030

LEASE OPERATOR/SHIPPER/COMPANY:

LEASE NAME:

TRANSPORTER COMPANY: | TIME AM/PM

DATE: VEHICLE NO: GENERATOR COMPANY MAN'S NAME:

CHARGE TO: | RIG NAME AND NUMBER

TYPE OF MATERIAL

[ ] Production Water	[ ] Drilling Fluids	[ ] Rinsate
[ ] Tank Bottoms	[ ] Contaminated Soil	[ ] Jet Out
[ ] Solids	[ ] BS&W Content:	[ ] Call Out

Description:

RRC or API # C-133#

VOLUME OF MATERIAL [ ] BBLS. : [ ] YARD : [ ]

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DRIVER:
SIGNATURE

FACILITY REPRESENTATIVE:
SIGNATURE

White - Sundance Canary - Sundance Acct #1 Pink - Transporter

SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. 431032

LEASE OPERATOR/SHIPPER/COMPANY:

LEASE NAME:

TRANSPORTER COMPANY: | **TIME:** AM/PM

DATE: **VEHICLE NO:** **GENERATOR COMPANY MAN'S NAME:**

CHARGE TO: **RIG NAME AND NUMBER**

TYPE OF MATERIAL

[ ] Production Water	[ ] Drilling Fluids	[ ] Rinsate
[ ] Tank Bottoms	[X] Contaminated Soil	[ ] Jet Out
[ ] Solids	[ ] BS&W Content:	[ ] Call Out

Description:

RRC or API # **C-133#**

VOLUME OF MATERIAL [ ] BBLS. : [X] YARD : [ ]

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DRIVER: (SIGNATURE)

FACILITY REPRESENTATIVE: (SIGNATURE)

White - Sundance Canary - Sundance Acct #1 Pink - Transporter

SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. 431033

LEASE OPERATOR/SHIPPER/COMPANY: ETC

LEASE NAME: D-14 Compressor Station

TRANSPORTER COMPANY: MK Kelton Transport TIME 1200 AM/PM

DATE: 7/21/17 VEHICLE NO: 13 GENERATOR COMPANY MAN'S NAME: ...

CHARGE TO: ETC RIG NAME AND NUMBER: 432-940-5147

TYPE OF MATERIAL

[ ] Production Water [ ] Drilling Fluids [ ] Rinsate

[ ] Tank Bottoms [X] Contaminated Soil [ ] Jet Out

[ ] Solids [ ] BS&W Content: [ ] Call Out

Description: CD

RRC or API # C-133#

VOLUME OF MATERIAL [ ] BBLS. : [X] YARD 20 : [ ]

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DRIVER: Ricardo Diaz
(SIGNATURE)

FACILITY REPRESENTATIVE: Sarah Hause
(SIGNATURE)

White - Sundance Canary - Sundance Acct #1 Pink - Transporter

SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. 431034

LEASE OPERATOR/SHIPPER/COMPANY:

LEASE NAME:

TRANSPORTER COMPANY: | TIME | AM/PM

DATE: | VEHICLE NO: | GENERATOR COMPANY MAN'S NAME:

CHARGE TO: | RIG NAME AND NUMBER

TYPE OF MATERIAL

[ ] Production Water	[ ] Drilling Fluids	[ ] Rinsate
[ ] Tank Bottoms	[ ] Contaminated Soil	[ ] Jet Out
[ ] Solids	[ ] BS&W Content:	[ ] Call Out

Description:

RRC or API # | C-133#

VOLUME OF MATERIAL [ ] BBLS. : [ ] YARD : [ ]

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DRIVER:
(SIGNATURE)

FACILITY REPRESENTATIVE:
(SIGNATURE)

White - Sundance Canary - Sundance Acct #1 Pink - Transporter

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

- **OPERATOR** ☒ Initial Report ☐ Final Report

Name of Company: ETC Field Services, LLC	Contact: Rose Slade
Address: 800 East Sonterra Rd. Suite 2 San Antonio, TX 78249	Telephone No. 210-403-6525
Facility Name: A-14 (Field Scrubber)	Facility Type: Compressor Station

Surface Owner: BLM	Mineral Owner: N/A	API No. N/A

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County:
I	6	24S	35E					Lea

Latitude 32.246183 **Longitude:** -103.402000

NATURE OF RELEASE

Type of Release: Crude Oil/ Produced water	Volume of Release: < 5 barrels	Volume Recovered: O
Source of Release: Field Scrubber	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery: 2/23/17
Was Immediate Notice Given? ☐ Yes ☒ No ☐ Not Required	If YES, To Whom? Notification was given to Ms. Olivia Yu on 3/3/17 at approximately 8:19 AM	
By Whom?	Date and Hour:	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

N/A

RECEIVED
By Olivia Yu at 12:52 pm, Mar 09, 2017

Describe Cause of Problem and Remedial Action Taken.*
On 2/23/17 ETC personnel discovered a crude oil & produced water release from the field scrubber due to a piece of tubing breaking off going into the field scrubber. During the initial response activities, ETC installed a new piece of tubing going into the field scrubber to prevent another incident.

Describe Area Affected and Cleanup Action Taken.* Fluid flowed from the release point to the southwest corner of the facility. The impacted area was approximately 3,000 square feet. A Site Assessment has been conducted by ETC personnel and an environmental company representing ETC. A work-plan is being written to submit to the NMOCD Hobbs District Office and the Bureau of Land Management (BLM)

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: Rose L. Slade	OIL CONSERVATION DIVISION	
Printed Name: Rose L. Slade	Approved by Environmental Specialist: OK	
Title: Sr. Environmental Specialist	Approval Date: 3/9/2017	Expiration Date:
E-mail Address: Rose.Slade@energytransfer.com	Conditions of Approval: see attached directive	Attached ☑
Date: 3/3/17 Phone: 210-403-6525		

* Attach Additional Sheets If Necessary

1RP-4634 fOY1706953656 nOY1706954187

pOY1706955443

Operator/Responsible Party,

The OCD has received the form C-141 you provided on _3/3/2017_ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number __1R-_4634___ has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

> *The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC.* [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District _1_ office in __Hobbs____ on or before _4/10/2017_. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

● Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C_6 thru C_{36}), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

● Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C_6 thru C_{36}), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

● Nominal detection limits for field and laboratory analyses must be provided.

● Composite sampling is not generally allowed.

● Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

●Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

● If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

● Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold
OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us