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Midland, TX 79703

432.520.7720 PHONE
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www.trcsolutions.com

APPROVED
By Olivia Yu at 3:44 pm, Aug 11, 2017

NMOCD approves of the delineation and remediation completed for 1RP-4635 due to release location and practicability. NMOCD also grants backfill approval.

July 27, 2017

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

Randall Pair
Carlsbad Field Office
United States Department of the Interior
Bureau of Land Management
620 E. Greene Street
Carlsbad, New Mexico 88220
rpair@blm.gov

Re: Remediation Summary and Permission to Backfill Request
A-14 Compressor Station (Below Ground Sump) Release (1RP-4635)
GPS: N 32.246183° W 103.402000°
Unit Letter "I", Section 6, Township 24 South, Range 35 East, NMPM
Lea County, New Mexico

Dear Ms. Yu and Mr. Pair,

TRC Environmental Corporation (TRC), on behalf of ETC Field Services, LLC (ETC) has prepared this Remediation Summary and Permission to Backfill Request (Request) for the A-14 Compressor Station (Below Ground Sump) Release Site (Release Site). The purpose of this Request is to provide documentation of remediation activities designed to advance the A-14 Compressor Station (Below Ground Sump) Release Site toward an NMOCD approved Site Closure Status. The legal description of the Release Site is Unit Letter "I", Section 6, Township 24 South, Range 35 East, NMPM, in Lea County, New Mexico. The GPS coordinates for the site are N 32.246183° W 103.402000°. The subject property is administered by the United States Bureau of Land Management (BLM). A Site Location Map, Site Details and Soil Sample Location Map, Site Details and Soil Sample Locations Maps, and Site Details and Confirmation Soil Sample Locations Map are provided as Figure 1, Figure 2, Figure 3, and Figure 4, respectively. Release Site photographs are attached to this Request.

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 New Mexico Oil Conservation Division (NMOCD) Hobbs District Office indicates

groundwater should be encountered at approximately two hundred twenty-five (225) feet below ground surface (bgs). 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 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.

Based on the NMOCD Site Classification criteria, the Release Site soil remediation levels are 10 mg/Kg for benzene, 50 mg/Kg for benzene, toluene, ethylbenzene and xylenes (BTEX), and 5,000 mg/Kg for total petroleum hydrocarbons (TPH). Per NMOCD request, chloride remediation levels for the Release Site will be 600 mg/Kg.

On March 6, 2016, 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 (email) NMOCD and BLM approval to proceed with the activities outlined in the "Proposed Delineation Workplan".

On March 21 and 22, 2016, due to safety concerns and the potential of striking underground piping and equipment within 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. Hydro-vac activities were conducted within and adjacent to the release area. Soil excavated during hydro-vac activities was placed on a plastic liner adjacent to the Release Site.

In addition, due to the high risk of striking underground piping and associated subsurface equipment, heavy excavation machinery cannot be utilized within the A-14 Compressor Station without special permission from ETC operation representatives. Due to this safety concern, delineation trenches in the vicinity of the impacted area was not advanced an additional ten (10) feet bgs.

On March 22 and March 23, 2017, TRC, on behalf of ETC, utilized a hand auger to collect eighteen (18) delineation soil samples (S-1 6" through S-7 6", S-1 1' through S-7 1', S-3 16", S-3 22", S-4 21", and S-4 2') from the surface soil stained area. The soil samples were submitted to Xenco Laboratories in Midland, Texas for determination of concentrations of BTEX using Method SW 846-8021B, Total Petroleum Hydrocarbons (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 sample S-3 22", which exhibited a BTEX concentration of 0.00322 mg/Kg which is below NMOCD regulatory guidelines. TPH concentrations ranged from less than the laboratory MDL for soil samples S-1 1', S-5 6", and S-7 1' to 17,531 mg/Kg for soil sample S-4 6". A review of laboratory analytical results indicated soil samples S-3 1' and S-4 6" exhibited TPH concentrations above NMOCD regulatory guidelines. Chloride concentrations ranged from less than the applicable laboratory MDL for soil samples S-2 6", S-2 1', S-5 6", S-5 1', S-6 6", S-6 1', S-7 6", S-7 6", and S-7 1' to 3,120 mg/Kg for soil sample S-4 6". A review of

laboratory analytical results indicated soil samples S-4 6" and S-4 1' exhibited chloride concentrations above NMOCD regulatory guidelines.

In addition to the soil samples described above, nine (9) soil samples (NS-1 1', SS-1 1', NS-2 1', SS-2 1', WS-3 1', ES-3 1',NS-4 1', SS-4 1', NS-5 1') were collected utilizing a hand auger approximately five (5) feet from the outer perimeter of the surface soil stained area 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 were less than the applicable laboratory MDL for the submitted soil samples, with the exception of soil samples NS-1 1' (15 mg/Kg), NS-4 1' (303 mg/Kg), and N-5 1' (381 mg/Kg). TPH concentrations were below NMOCD regulatory guidelines for the submitted soil samples. Chloride concentrations ranged from less than the applicable laboratory MDL for soil sample ES-3 1' to 261 mg/Kg for soil sample SS-4 1'. A review of laboratory analytical results indicated chloride concentrations were below NMOCD guidelines for the submitted samples.

In addition, utilizing a hand auger, one background sample (BG-1 1') was collected 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 TPH, benzene, BTEX, and chloride concentrations were less than laboratory applicable MDL.

On May 2, 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. ETC received written (email) NMOCD approval to proceed with the activities outlined in the Workplan.

On May 23, 2017, TRC commenced excavation activities utilizing a hydrovac in the vicinity of the A-14 Compressor Station below ground sump. One (1) soil sample (BH-1 @ 8") was collected from the floor of the excavated area. The soil sample was submitted to the laboratory and analyzed for concentrations of TPH using EPA Method SW 846-8015M and chloride using EPA Method E 300.0. A review of laboratory analytical results indicated benzene and BTEX concentrations were less than laboratory MDL and NMOCD regulatory guidelines. Laboratory analytical results indicated the TPH concentrations was 506 mg/Kg and below NMOCD regulatory guidelines. Laboratory analytical results indicated the chloride concentration for the submitted sample was 8.06 mg/Kg and below NMOCD regulatory guidelines.

In addition, one (1) composite soil sample (Hydrovac Solids) was collected from approximately twenty (20) cubic yards of hydro-excavated soil vacuumed from outside of the visibly impacted soil and submitted for BTEX, TPH, and chloride analysis. A review of the laboratory analytical results indicated benzene and BTEX concentrations were less than laboratory MDL and NMOCD regulatory guidelines. The TPH concentrations for the submitted soil sample was 452 mg/Kg and below NMOCD regulatory guidelines. The chloride concentration for the submitted soil sample was 52.5 mg/Kg and below NMOCD regulatory guidelines.

Based on the advancement of exploratory trenches utilizing a hydro-vac during delineation activities, it was determined the remainder of the impacted area could be excavated utilizing a backhoe to a maximum depth of approximately two (2) feet bgs.

On June 15, 2017, following additional excavation activities, three (3) soil samples (BH-6 6", BH-7 6", and BH-2 6") were collected from the floor of the excavated area and submitted to the laboratory for BTEX, TPH, and chloride analysis. A review of laboratory analytical results indicated benzene and BTEX concentrations for the submitted soil samples were less than laboratory MDL and NMOCD regulatory guidelines. TPH concentrations for the submitted soil samples ranged from less than the laboratory MDL for soil sample BH-2 6" to 231 mg/Kg for soil sample BH-7 6", which indicated the submitted soil samples were below NMOCD regulatory guidelines. A review of laboratory analytical results indicated chloride concentrations ranged from 5.85 mg/Kg for soil sample BH-7 6" to 32.4 mg/Kg for soil sample BH-2 6", which indicated chloride concentrations were below NMOCD regulatory guidelines.

On June 19 and 20, 2017, following additional excavation activities, ten (10) soil samples (BH-3 2', ESW-1 1', WSW-1 1', BH-5 6", BH-4 2', NSW-1 1', ESW-2 1', SSW-1 1', NSW-2 1', and WSW-2 1') were collected from the floor and side walls of the excavated area and submitted to the laboratory for BTEX, TPH, and chloride analysis. A review of laboratory analytical results indicated benzene and BTEX concentrations for the submitted soil samples were less than laboratory MDL and NMOCD regulatory guidelines. A review of laboratory analytical results indicated TPH concentrations were less than the applicable laboratory MDL for all submitted soil samples, with the exception of soil samples BH-3 2', ESW-1 1', and WSW-1 1', which exhibited TPH concentrations of 118 mg/Kg, 25.8 mg/Kg, and 321.2 mg/Kg, respectively, and remained below NMOCD regulatory guidelines. A review of laboratory analytical results indicate chloride concentrations for the submitted samples ranged from 9.95 mg/Kg for soil sample NSW-2 1' to 165 mg/Kg for soil sample WSW-1 1', which indicated TPH concentrations were below NMOCD regulatory guidelines. Table 1 summarizes the Concentrations of Benzene, BTEX, TPH, and Chlorides in Soil. Analytical reports are provided with this Request.

Pending NMOCD and BLM approval, ETC will transport the excavated soil under manifest to a NMOCD approved disposal facility and backfill the existing excavation with locally purchased non-impacted "like" soil and/or caliche. On completion of backfilling activities, the impacted area outside the A-14 Compressor Station will be contoured to fit the surrounding area and be reseeded with vegetation approved by the BLM.

Based on the analytical results of soil samples collected between May 23 through June 20, 2017, ETC proposes the following field activities designed to advance the A-14 Compressor Station (Below Ground Sump) Release towards NMOCD closure status:

- Pending NMOCD and BLM approval, ETC will transport the excavated soil under manifest to an NMOCD approved disposal facility.
- On completion of transport and disposal of the excavated soil, the excavated area will be backfilled with locally purchased non-impacted "like" soil. In addition, the backfilled area will be contoured to fit the surrounding area and be reseeded with vegetation approved by the BLM.
- Utilize the excavated soil represented by soil sample Hydrovac Solids as backfill material within the A-14 Compressor Station.
- Prepare and submit a "Remediation Summary and Site Closure Request" to the NMOCD and BLM.

ETC is prepared to begin the activities outlined in this Remediation Summary and Permission to Backfill Request on NMOCD and BLM approval.

If you have any questions, or if additional information is required, please feel free to call me at 432-520-7720 (office) or 432-664-6699 (cell).

Thank you,

Nikki Green
Project Manager
TRC Environmental Corporation

Jeffrey Kindley, PG
Senior Project Manager
TRC Environmental Corporation

Attachments:

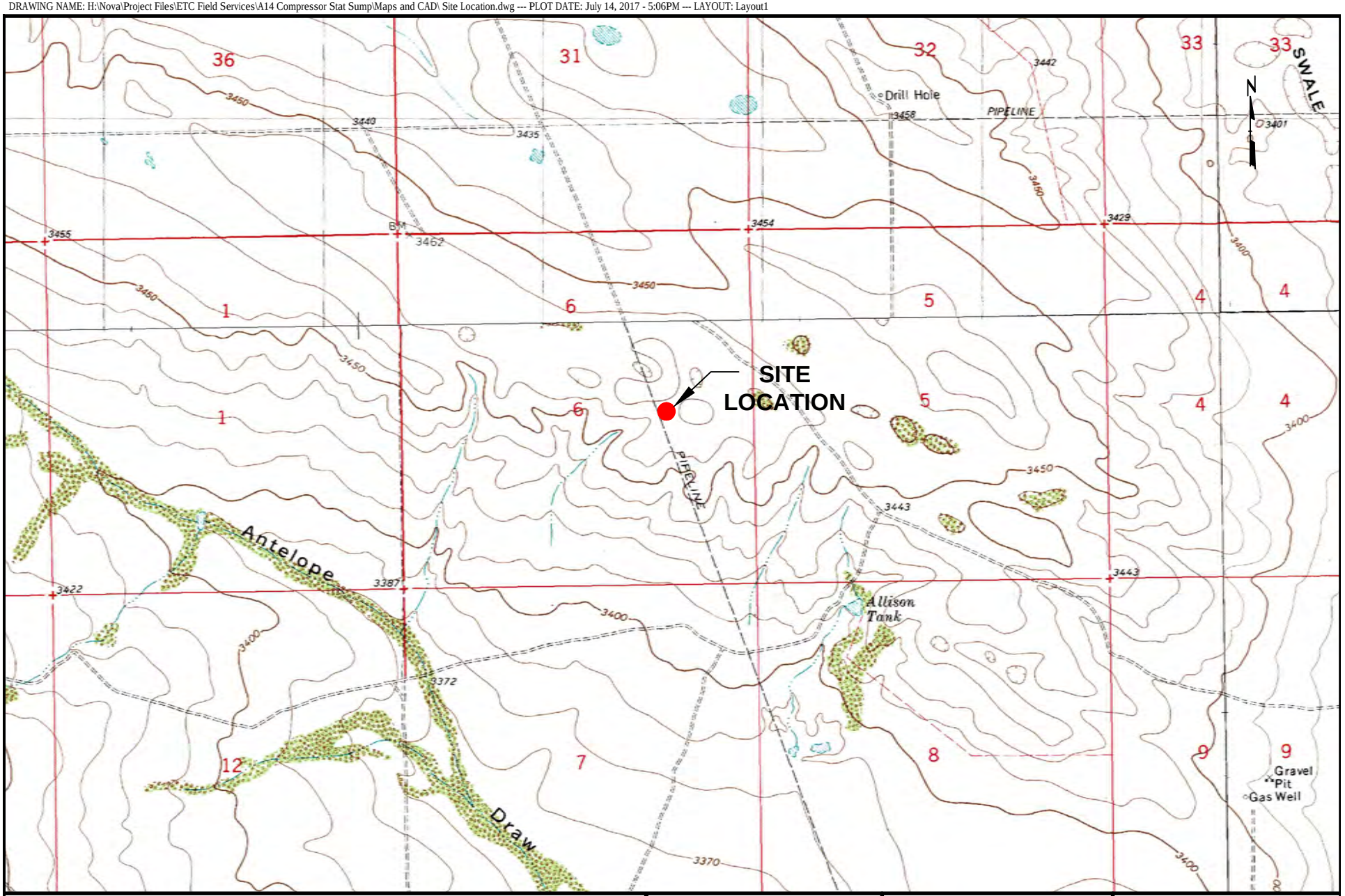
Figure 1 - Site Location Map
Figure 2 - Site Detail and Soil Sample Location Map
Figure 3 - Site Detail and Soil Sample Locations Map
Figure 4 – Site Details and Confirmation Soil Sample Locations Map
Table 1 - Concentrations of Benzene, BTEX, TPH and Chloride in Soil
Release Site Photographs
Laboratory Analytical Results
Release Notification and Corrective Action (Form C-141)

cc:

Rose Slade
ETC Field Services, LLC
800 East Sonterra Suite 2
San Antonio, TX 78258

File

DRAWING NAME: H:\Nova\Project Files\ETC Field Services\A14 Compressor Stat Sump\Maps and CAD\ Site Location.dwg --- PLOT DATE: July 14, 2017 - 5:06PM --- LAYOUT: Layout1



LEGEND:

2000 1000 0 1000 2000

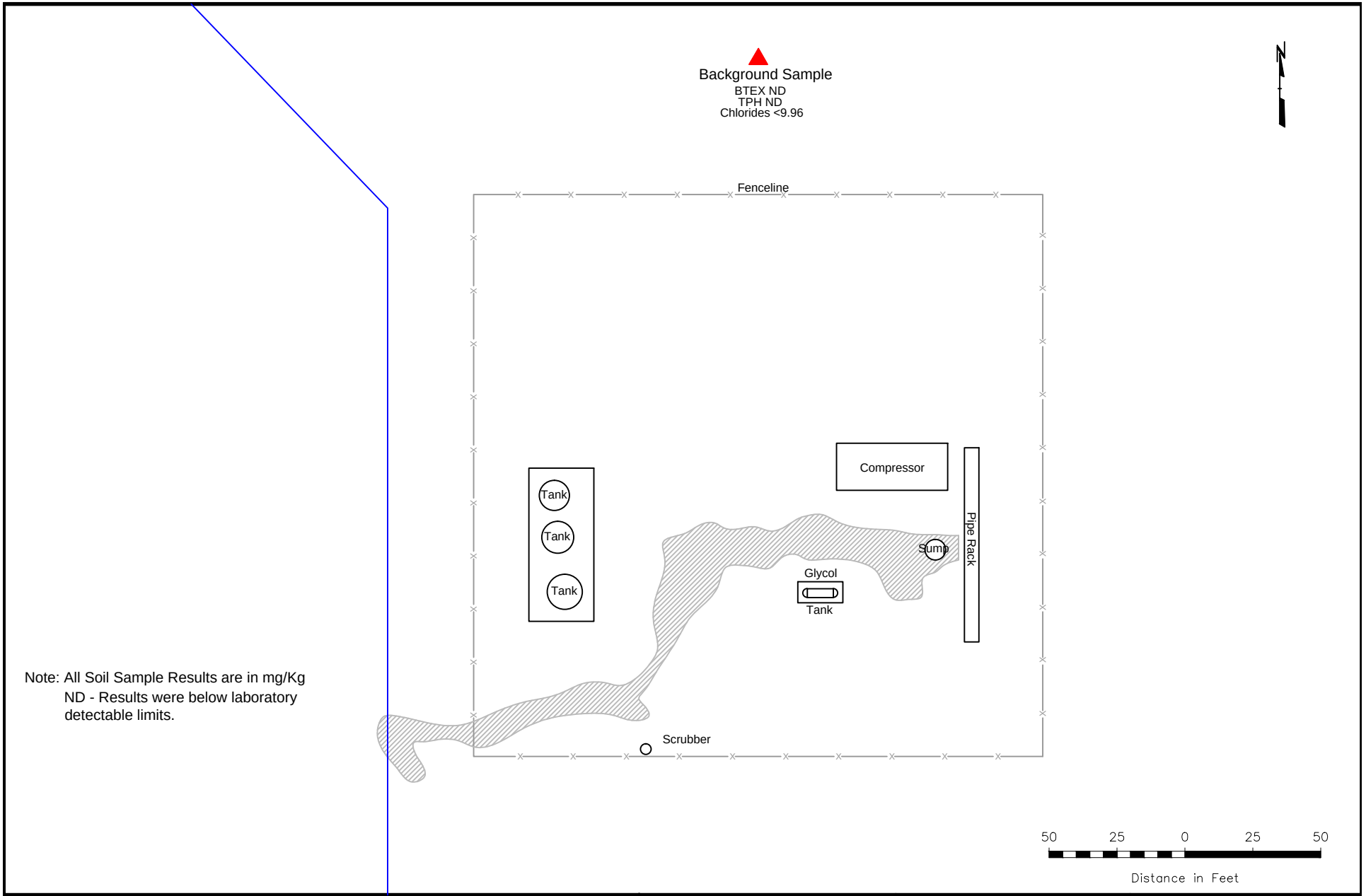
Distance in Feet

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

Scale: 1" = 2000'	
CAD By: TA	Checked By: CS
Draft: March 3, 2017	
Lat. N 32.246183° , Long. W 103.402000°	
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 Sump\Maps and CAD\ Figure 2 Sump Release.dwg --- PLOT DATE: July 14, 2017 - 3:18PM --- LAYOUT: Layout1



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

LEGEND:

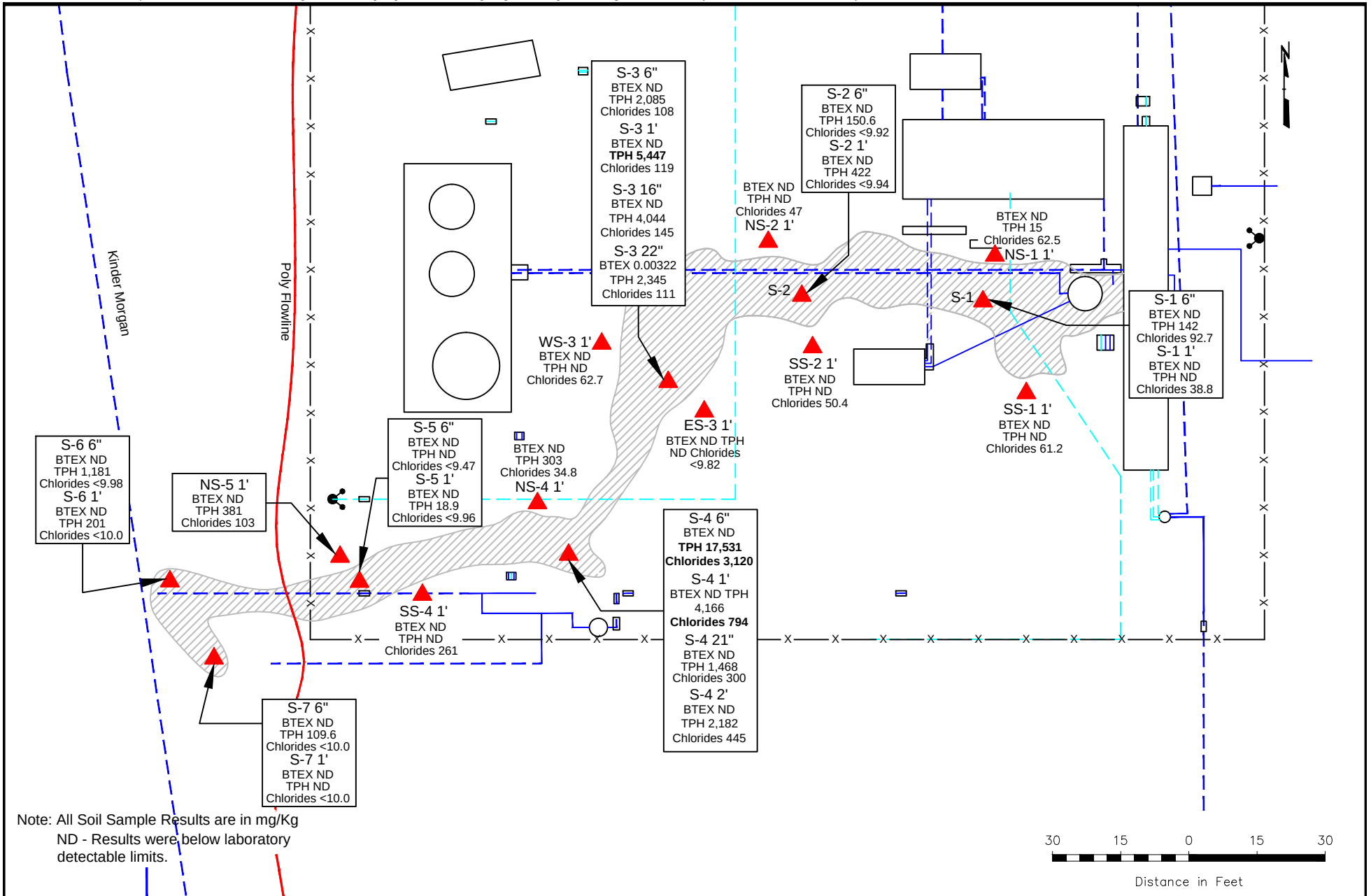
- Fence Line
- Soil Sample Location
- Pipleline

Figure 2
Site Detail and
Soil Sample Location Map
ETC Field Services, LLC
A-14 Compressor Station
Sump 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 Sump\Maps and CAD\new maps\ Figure 3a Sump Release.dwg --- PLOT DATE: July 14, 2017 - 5:10PM --- LAYOUT: Layout1



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

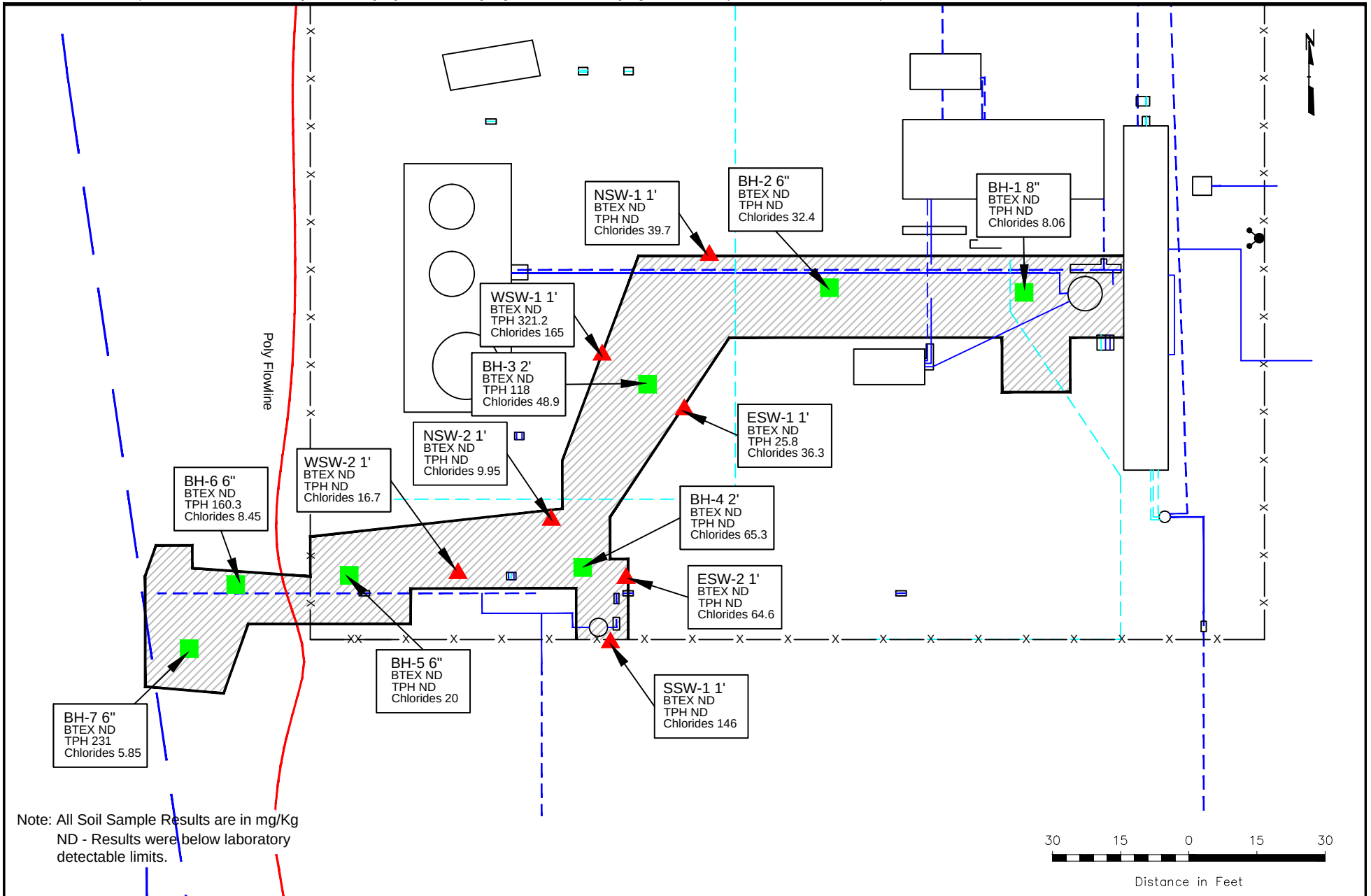
LEGEND:
- Pipleline
- Electric
- Light Pole
- Fence
- Flowline
- Soil Sample Location

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

Scale: 1" = 30'	
CAD By: TA	Checked By: NG
Draft: April 4, 2017	
Lat. N 32.246183° , Long. W 103.402000°	
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 Sump\Maps and CAD\new maps\ Figure 4a Below Ground Sump.dwg --- PLOT DATE: July 14, 2017 - 5:11PM --- 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
- Soil Sample Location
- Floor Soil Sample Location

Figure 4
Site Details and Confirmation Soil Sample Locations
ETC Field Services, LLC
A-14 Compressor Station
Below Ground Sump
Lea County, NM

Scale: 1" = 30'	
CAD By: TA	Checked By: NG
Draft: April 4, 2017	
Lat. N 32.246183° , Long. W 103.402000°	
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
A14 COMPRESSOR STATION BELOW GROUND SUMP
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_{12}	TPH DRO C_{12}-C_{28}	TPH ORO C_{28}-C_{35}	TOTAL TPH C_6-C_{35}	CHLORIDE
NMOCD Site Classification Criteria			**10**					**50**				**5,000**	**600**
S-1 6"	03/22/17	Trench	<0.00148	<0.00198	<0.00198	<0.00198	<0.00296	<0.00296	<15.0	79.9	62.3	142.2	92.7
S-1 1'	03/22/17	Trench	<0.00146	<0.00194	<0.00194	<0.00194	<0.00291	<0.00291	<15.0	<15.0	<15.0	<15.0	38.8
S-2 6"	03/22/17	Trench	<0.00146	<0.00195	<0.00195	<0.00195	<0.00292	<0.00292	<15.0	80.5	70.1	150.6	<9.92
S-2 1'	03/22/17	Trench	<0.00148	<0.00197	<0.00197	<0.00197	<0.00296	<0.00296	<15.0	179	243	422	<9.94
S-3 6"	03/22/17	Trench	<0.00147	<0.00196	<0.00196	<0.00196	<0.00294	<0.00294	72.8	1,500	512	2,084.8	108
S-3 1'	03/22/17	Trench	<0.00147	<0.00196	<0.00196	<0.00196	<0.00294	<0.00294	445	4,030	972	**5,447**	119
S-3 16"	03/23/17	Trench	<0.00148	<0.00198	<0.00198	<0.00198	<0.00296	<0.00296	281	2,810	953	4,044	145
S-3 22"	03/23/17	Trench	<0.00152	<0.00202	<0.00202	0.00322	<0.00303	0.00322	296	1,820	229	2,345	111
S-4 6"	03/22/17	Trench	<0.00146	<0.00195	<0.00195	<0.00195	<0.00293	<0.00293	771	15,100	1,660	**17,531**	**3,120**
S-4 1'	03/22/17	Trench	<0.00146	<0.00195	<0.00195	<0.00195	<0.00292	<0.00292	84.2	3,630	452	4,166.2	**794**
S-4 21"	03/23/17	Trench	<0.00149	<0.00198	<0.00198	<0.00198	<0.00298	<0.00298	18.0	1,290	160	1,468.0	300
S-4 2'	03/23/17	Trench	<0.00150	<0.00200	<0.00200	<0.00200	<0.00301	<0.00301	25.4	1,930	227	2,182.4	445
S-5 6"	03/23/17	Trench	<0.00149	<0.00199	<0.00199	<0.00199	<0.00298	<0.00298	<15.0	<15.0	<15.0	<15.0	<9.47
S-5 1'	03/22/17	Trench	<0.00147	<0.00196	<0.00196	<0.00196	<0.00295	<0.00295	<15.0	18.9	<15.0	18.9	<9.96
S-6 6"	03/23/17	Trench	<0.00146	<0.00195	<0.00195	<0.00195	<0.00292	<0.00292	<14.9	889	292	1,181	<9.98
S-6 1'	03/23/17	Trench	<0.00148	<0.00198	<0.00198	<0.00198	<0.00296	<0.00296	<15.0	120	81.0	201.0	<10.0
S-7 6"	03/23/17	Trench	<0.00149	<0.00199	<0.00199	<0.00199	<0.00298	<0.00298	<15.0	59.0	50.6	109.6	<10.0
S-7 1'	03/23/17	Trench	<0.00148	<0.00197	<0.00197	<0.00197	<0.00296	<0.00296	<15.0	<15.0	<15.0	<15.0	<10.0
NS-1 1'	03/23/17	Trench	<0.00147	<0.00196	<0.00196	<0.00196	<0.00295	<0.00295	<15.0	<15.0	15.0	15.0	62.5
SS-1 1'	03/23/17	Trench	<0.00147	<0.00196	<0.00196	<0.00196	<0.00294	<0.00294	<15.0	<15.0	<15.0	<15.0	61.2
NS-2 1'	03/23/17	Trench	<0.00149	<0.00199	<0.00199	<0.00199	<0.00298	<0.00298	<15.0	<15.0	<15.0	<15.0	47.0
SS-2 1'	03/23/17	Trench	<0.00151	<0.00201	<0.00201	<0.00201	<0.00301	<0.00301	<15.0	<15.0	<15.0	<15.0	50.4

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL

ETC FIELD SERVICES, LLC
A14 COMPRESSOR STATION BELOW GROUND SUMP
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_{12}	TPH DRO C_{12}-C_{28}	TPH ORO C_{28}-C_{35}	TOTAL TPH C_6-C_{35}	CHLORIDE
NMOCD Site Classification Criteria			**10**					**50**				**5,000**	**600**
WS-3 1'	03/23/17	Trench	<0.00150	<0.00200	<0.00200	<0.00200	<0.00301	<0.00301	<15.0	<15.0	<15.0	<15.0	62.7
ES-3 1'	03/23/17	Trench	<0.00148	<0.00197	<0.00197	<0.00197	<0.00296	<0.00296	<15.0	<15.0	<15.0	<15.0	<9.82
NS-4 1'	03/23/17	Trench	<0.00255	<0.00340	<0.00340	<0.00340	<0.00510	<0.00510	<15.0	258	45.0	303.0	34.8
SS-4 1'	03/23/17	Trench	<0.00148	<0.00198	<0.00198	<0.00198	<0.00296	<0.00296	<15.0	<15.0	<15.0	<15.0	261
NS-5 1'	03/23/17	Trench	<0.00150	<0.00200	<0.00200	<0.00200	<0.00301	<0.00301	<15.0	351	29.5	380.5	103
BG-1 1'	03/23/17	Trench	<0.00151	<0.00201	<0.00201	<0.00301	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	<9.96
BH-1 @ 8"	05/23/17	In-Situ	<0.00353	<0.00353	<0.00353	<0.00707	<0.00353	<0.00707	<15.0	203	303	506	8.06
BH-6 6"	06/15/17	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	<0.00402	<15.0	97.1	63.2	160.3	8.45
BH-7 6"	06/15/17	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	<0.00399	<15.0	109	122	231	5.85
BH-2 6"	06/15/17	In-Situ	<0.00198	<0.00198	<0.00198	<0.00397	<0.00198	<0.00397	<15.0	<15.0	<15.0	<15.0	32.4
BH-3 2'	06/19/17	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	<0.00402	<15.0	53.3	64.7	118	48.9
ESW-1 1'	06/19/17	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	<0.00399	<15.0	25.8	<15.0	25.8	36.3
WSW-1 1'	06/19/17	In-Situ	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<15.0	255	66.2	321.2	165.0
BH-5 6"	06/19/17	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	<0.00402	<14.9	<14.9	<14.9	<14.9	20.0
BH-4 2'	06/20/17	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<15.0	<15.0	<15.0	<15.0	65.3
NSW-1 1'	06/20/17	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<15.0	<15.0	<15.0	<15.0	39.7
ESW-2 1'	06/20/17	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<15.0	<15.0	<15.0	<15.0	64.6
SSW-1 1'	06/20/17	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	<0.00399	<15.0	<15.0	<15.0	<15.0	146
NSW-2 1'	06/20/17	In-Situ	<0.00202	<0.00202	<0.00202	<0.00403	<0.00202	<0.00403	<15.0	<15.0	<15.0	<15.0	9.95

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL

ETC FIELD SERVICES, LLC
A14 COMPRESSOR STATION BELOW GROUND SUMP
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_{12}	TPH DRO C_{12}-C_{28}	TPH ORO C_{28}-C_{35}	TOTAL TPH C_6-C_{35}	CHLORIDE
NMOCD Site Classification Criteria			**10**					**50**				**5,000**	**600**
WSW-2 1'	06/20/17	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	<0.00402	<15.0	<15.0	<15.0	<15.0	16.7
Hydrovac Solids	05/23/17	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	<0.00402	<15.0	187	265	452	52.5

Photographic Documentation

Client: ETC Field Services, LLC **Prepared by:** TRC Environmental Corp.
Project Name: A-14 Compressor Station Below Ground Sump **Location:** Lea County, NM

Photograph No. 1 **Date:** **February 23, 2017** **Direction:** **Northeast** **Description:** **View of impacted area and below ground tank (sump) release point.**	
Photograph No. 2 **Date:** **February 23, 2017** **Direction:** **Northeast** **Description:** **View of impacted area. Sump is located toward the upper right of photo.**	

Photographic Documentation

Client: ETC Field Services, LLC **Prepared by:** TRC Environmental Corp.
Project Name: A-14 Compressor Station Below Ground Sump **Location:** Lea County, NM

Photograph No. 3 **Date:** **March 23, 2017** **Direction:** **East** **Description:** **View of hydro-vac trenches utilized to locate underground equipment.**	
Photograph No. 4 **Date:** **March 23, 2017** **Direction:** **Southwest** **Description:** **View of hydro-vac trenches utilized to locate underground equipment.**	

Photographic Documentation

Client: ETC Field Services, LLC **Prepared by:** TRC Environmental Corp.
Project Name: A-14 Compressor Station Below Ground Sump **Location:** Lea County, NM

Photograph No. 5 **Date:** **March 23, 2017** **Direction:** **East** **Description:** **View of hydro-vac trenches utilized to locate underground equipment.**	
Photograph No. 6 **Date:** **March 23, 2017** **Direction:** **Southwest** **Description:** **View of hydro-vac trenches utilized to locate underground equipment.**	

Photographic Documentation

Client: ETC Field Services, LLC **Prepared by:** TRC Environmental Corp.
Project Name: A-14 Compressor Station Below Ground Sump **Location:** Lea County, NM

Photograph No. 7 **Date:** **June 20, 2017** **Direction:** **West** **Description:** **View of excavated area.**	
Photograph No. 8 **Date:** **June 20, 2017** **Direction:** **South** **Description:** **View of excavated area.**	

Photographic Documentation

Client: ETC Field Services, LLC **Prepared by:** TRC Environmental Corp.
Project Name: A-14 Compressor Station Below Ground Sump **Location:** Lea County, NM

Photograph No. 9 **Date:** **June 20, 2017** **Direction:** **Southwest** **Description:** **View of excavated area.**	
Photograph No. 10 **Date:** **June 20, 2017** **Direction:** **South** **Description:** **View of excavated area.**	

Analytical Report 549416

for

TRC Solutions, Inc

Project Manager: Nikki Green

A14 Compressor Station Sump

TRC# 273818

05-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)

05-APR-17

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

Reference: XENCO Report No(s): **549416**
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) 549416. 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. 549416 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 549416

TRC Solutions, Inc, Midland, TX

A14 Compressor Station Sump

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
S-1 6"	S	03-22-17 13:00	- 6 In	549416-001
S-1 1'	S	03-22-17 13:05	- 1 ft	549416-002
S-2 6"	S	03-22-17 13:15	- 6 In	549416-003
S-2 1'	S	03-22-17 13:20	- 1 ft	549416-004
S-3 6"	S	03-22-17 13:35	- 6 In	549416-005
S-3 1'	S	03-22-17 13:40	- 1 ft	549416-006
S-4 6"	S	03-22-17 15:30	- 6 In	549416-007
S-4 1'	S	03-22-17 15:35	- 1 ft	549416-008
S-5 1'	S	03-22-17 15:55	- 1 ft	549416-009
S-6 6"	S	03-23-17 09:30	- 6 In	549416-010
S-6 1'	S	03-23-17 09:45	- 1 ft	549416-011
S-7 6"	S	03-23-17 09:50	- 6 In	549416-012
S-7 1'	S	03-23-17 10:05	- 1 ft	549416-013
NS-1 1'	S	03-23-17 10:10	- 1 ft	549416-014
SS-1 1'	S	03-23-17 10:20	- 1 ft	549416-015
NS-2 1'	S	03-23-17 11:00	- 1 ft	549416-016
SS-2 1'	S	03-23-17 11:15	- 1 ft	549416-017
S-3 16"	S	03-23-17 11:20	- 16 In	549416-018
S-3 22"	S	03-23-17 11:28	- 22 In	549416-019
WS-3 1'	S	03-23-17 11:39	- 1 ft	549416-020
ES-3 1'	S	03-23-17 11:42	- 1 ft	549416-021
S-4 21"	S	03-23-17 11:45	- 1 ft	549416-022
S-4 2'	S	03-23-17 11:50	- 2 ft	549416-023
NS-4 1'	S	03-23-17 13:00	- 1 ft	549416-024
SS-4 1'	S	03-23-17 13:10	- 1 ft	549416-025
NS-5 1'	S	03-23-17 13:20	- 1 ft	549416-026
S-5 6"	S	03-22-17 15:50	- 6 In	549416-027

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3013449 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3013451 BTEX by EPA 8021B
Lab Sample ID 549416-002 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: 549416-002, -003, -004, -010.
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-3013527 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3013589 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.
Lab Sample ID 549416-026 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: 549416-025, -026, -027.
The Laboratory Control Sample for m_p-Xylenes is within laboratory Control Limits, therefore the data was accepted.

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 549416

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: Fri Mar-24-17 02:55 pm
Report Date: 05-APR-17
Project Manager: Kelsey Brooks

Analysis Requested													
	Lab Id:	549416-001		549416-002		549416-003		549416-004		549416-005		549416-006	
	Field Id:	S-1 6"		S-1 1'		S-2 6"		S-2 1'		S-3 6"		S-3 1'	
	Depth:	6 In		1 ft		6 In		1 ft		6 In		1 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Mar-22-17 13:00		Mar-22-17 13:05		Mar-22-17 13:15		Mar-22-17 13:20		Mar-22-17 13:35		Mar-22-17 13:40	
BTEX by EPA 8021B	***Extracted:***	Mar-27-17 08:00		Mar-27-17 16:40		Mar-27-17 16:40		Mar-27-17 16:40		Mar-28-17 08:00		Mar-28-17 08:00	
	Analyzed:	Mar-27-17 08:55		Mar-27-17 21:58		Mar-27-17 22:14		Mar-28-17 01:13		Mar-28-17 09:29		Mar-28-17 09:46	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.00148	ND	0.00146	ND	0.00146	ND	0.00148	ND	0.00147	ND	0.00147
Toluene		ND	0.00198	ND	0.00194	ND	0.00195	ND	0.00197	ND	0.00196	ND	0.00196
Ethylbenzene		ND	0.00198	ND	0.00194	ND	0.00195	ND	0.00197	ND	0.00196	ND	0.00196
m_p-Xylenes		ND	0.00198	ND	0.00194	ND	0.00195	ND	0.00197	ND	0.00196	ND	0.00196
o-Xylene		ND	0.00296	ND	0.00291	ND	0.00292	ND	0.00296	ND	0.00294	ND	0.00294
Total Xylenes		ND	0.00198	ND	0.00194	ND	0.00195	ND	0.00197	ND	0.00196	ND	0.00196
Total BTEX		ND	0.00148	ND	0.00146	ND	0.00146	ND	0.00148	ND	0.00147	ND	0.00147
Chloride by EPA 300 SUB: TX104704215	***Extracted:***	Apr-01-17 12:04		Apr-01-17 12:04		Apr-01-17 12:04		Apr-01-17 12:04		Apr-01-17 12:04		Apr-01-17 12:04	
	Analyzed:	Apr-01-17 22:01		Apr-01-17 22:10		Apr-01-17 22:38		Apr-01-17 22:47		Apr-01-17 23:15		Apr-01-17 23:25	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		92.7	9.69	38.8	9.88	ND	9.92	ND	9.94	108	9.98	119	10.0
TPH By SW8015 Mod	***Extracted:***	Mar-24-17 16:00		Mar-24-17 16:00		Mar-24-17 16:00		Mar-24-17 16:00		Mar-24-17 16:00		Mar-24-17 16:00	
	Analyzed:	Mar-25-17 00:20		Mar-25-17 01:37		Mar-25-17 02:02		Mar-25-17 02:29		Mar-25-17 02:57		Mar-25-17 03:24	
	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	72.8	15.0	445	74.9
C10-C28 Diesel Range Organics		79.9	15.0	ND	15.0	80.5	15.0	179	15.0	1500	15.0	4030	74.9
C28-C35 Oil Range Hydrocarbons		62.3	15.0	ND	15.0	70.1	15.0	243	15.0	512	15.0	972	74.9
Total TPH		142	15.0	ND	15.0	151	15.0	422	15.0	2080	15.0	5450	74.9

Kelsey Brooks
Project Manager

Certificate of Analysis Summary 549416

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: Fri Mar-24-17 02:55 pm
Report Date: 05-APR-17
Project Manager: Kelsey Brooks

Analysis Requested													
	Lab Id:	549416-007		549416-008		549416-009		549416-010		549416-011		549416-012	
	Field Id:	S-4 6"		S-4 1'		S-5 1'		S-6 6"		S-6 1'		S-7 6"	
	Depth:	6 In		1 ft		1 ft		6 In		1 ft		6 In	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Mar-22-17 15:30		Mar-22-17 15:35		Mar-22-17 15:55		Mar-23-17 09:30		Mar-23-17 09:45		Mar-23-17 09:50	
BTEX by EPA 8021B	***Extracted:***	Mar-28-17 08:00		Mar-28-17 08:00		Mar-28-17 08:00		Mar-27-17 16:40		Mar-28-17 08:00		Mar-28-17 08:00	
	Analyzed:	Mar-28-17 10:02		Mar-28-17 10:19		Mar-28-17 10:35		Mar-28-17 06:14		Mar-28-17 10:51		Mar-28-17 11:08	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.00146	ND	0.00146	ND	0.00147	ND	0.00146	ND	0.00148	ND	0.00149
Toluene		ND	0.00195	ND	0.00195	ND	0.00196	ND	0.00195	ND	0.00198	ND	0.00199
Ethylbenzene		ND	0.00195	ND	0.00195	ND	0.00196	ND	0.00195	ND	0.00198	ND	0.00199
m_p-Xylenes		ND	0.00195	ND	0.00195	ND	0.00196	ND	0.00195	ND	0.00198	ND	0.00199
o-Xylene		ND	0.00293	ND	0.00292	ND	0.00295	ND	0.00292	ND	0.00296	ND	0.00298
Total Xylenes		ND	0.00195	ND	0.00195	ND	0.00196	ND	0.00195	ND	0.00198	ND	0.00199
Total BTEX		ND	0.00146	ND	0.00146	ND	0.00147	ND	0.00146	ND	0.00148	ND	0.00149
Chloride by EPA 300 SUB: TX104704215	***Extracted:***	Apr-01-17 12:04		Apr-01-17 12:04		Apr-01-17 12:04		Apr-01-17 12:04		Apr-01-17 12:04		Apr-03-17 18:00	
	Analyzed:	Apr-01-17 23:34		Apr-01-17 23:44		Apr-01-17 23:53		Apr-02-17 00:02		Apr-02-17 00:12		Apr-03-17 23:24	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		3120 D	98.8	794	9.82	ND	9.96	ND	9.98	ND	10.0	ND	10.0
TPH By SW8015 Mod	***Extracted:***	Mar-24-17 16:00		Mar-24-17 16:00		Mar-24-17 16:00		Mar-24-17 16:00		Mar-24-17 16:00		Mar-24-17 16:00	
	Analyzed:	Mar-25-17 03:50		Mar-26-17 06:11		Mar-25-17 04:43		Mar-26-17 06:31		Mar-25-17 12:48		Mar-25-17 13:10	
	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		771	74.9	84.2	14.9	ND	15.0	ND	14.9	ND	15.0	ND	15.0
C10-C28 Diesel Range Organics		15100	74.9	3630	14.9	18.9	15.0	889	14.9	120	15.0	59.0	15.0
C28-C35 Oil Range Hydrocarbons		1660	74.9	452	14.9	ND	15.0	292	14.9	81.0	15.0	50.6	15.0
Total TPH		17500	74.9	4170	14.9	18.9	15.0	1180	14.9	201	15.0	110	15.0

Kelsey Brooks
Project Manager

Certificate of Analysis Summary 549416

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: Fri Mar-24-17 02:55 pm
Report Date: 05-APR-17
Project Manager: Kelsey Brooks

Analysis Requested													
	Lab Id:	549416-013		549416-014		549416-015		549416-016		549416-017		549416-018	
	Field Id:	S-7 1'		NS-1 1'		SS-1 1'		NS-2 1'		SS-2 1'		S-3 16"	
	Depth:	1 ft		1 ft		1 ft		1 ft		1 ft		16 In	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Mar-23-17 10:05		Mar-23-17 10:10		Mar-23-17 10:20		Mar-23-17 11:00		Mar-23-17 11:15		Mar-23-17 11:20	
BTEX by EPA 8021B	***Extracted:***	Mar-28-17 08:00		Mar-28-17 08:00		Mar-28-17 08:00		Mar-28-17 08:00		Mar-28-17 08:00		Mar-28-17 08:00	
	Analyzed:	Mar-28-17 09:14		Mar-28-17 11:23		Mar-28-17 11:40		Mar-28-17 13:35		Mar-28-17 13:52		Mar-28-17 14:08	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.00148	ND	0.00147	ND	0.00147	ND	0.00149	ND	0.00151	ND	0.00148
Toluene		ND	0.00197	ND	0.00196	ND	0.00196	ND	0.00199	ND	0.00201	ND	0.00198
Ethylbenzene		ND	0.00197	ND	0.00196	ND	0.00196	ND	0.00199	ND	0.00201	ND	0.00198
m_p-Xylenes		ND	0.00197	ND	0.00196	ND	0.00196	ND	0.00199	ND	0.00201	ND	0.00198
o-Xylene		ND	0.00296	ND	0.00295	ND	0.00294	ND	0.00298	ND	0.00301	ND	0.00296
Total Xylenes		ND	0.00197	ND	0.00196	ND	0.00196	ND	0.00199	ND	0.00201	ND	0.00198
Total BTEX		ND	0.00148	ND	0.00147	ND	0.00147	ND	0.00149	ND	0.00151	ND	0.00148
Chloride by EPA 300 SUB: TX104704215	***Extracted:***	Apr-03-17 18:00		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-03-17 23:33		Apr-02-17 02:13		Apr-02-17 02:41		Apr-02-17 02:51		Apr-02-17 03:00		Apr-02-17 03:09	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		ND	10.0	62.5	9.98	61.2	9.88	47.0	9.84	50.4	9.98	145	10.0
TPH By SW8015 Mod	***Extracted:***	Mar-24-17 16:00		Mar-24-17 16:00		Mar-24-17 16:00		Mar-24-17 16:00		Mar-24-17 16:00		Mar-24-17 16:00	
	Analyzed:	Mar-26-17 06:50		Mar-25-17 13:52		Mar-25-17 14:13		Mar-25-17 14:33		Mar-25-17 14:54		Mar-25-17 15:14	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C10 Gasoline Range Hydrocarbons		ND	15.0	ND	15.0	ND	15.0	ND	15.0	ND	15.0	281	74.7
C10-C28 Diesel Range Organics		ND	15.0	ND	15.0	ND	15.0	ND	15.0	ND	15.0	2810	74.7
C28-C35 Oil Range Hydrocarbons		ND	15.0	15.0	15.0	ND	15.0	ND	15.0	ND	15.0	953	74.7
Total TPH		ND	15.0	15.0	15.0	ND	15.0	ND	15.0	ND	15.0	4040	74.7

Kelsey Brooks
Project Manager

Certificate of Analysis Summary 549416

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: Fri Mar-24-17 02:55 pm
Report Date: 05-APR-17
Project Manager: Kelsey Brooks

Analysis Requested													
	Lab Id:	549416-019		549416-020		549416-021		549416-022		549416-023		549416-024	
	Field Id:	S-3 22"		WS-3 1'		ES-3 1'		S-4 21"		S-4 2'		NS-4 1'	
	Depth:	22 In		1 ft		1 ft		1 ft		2 ft		1 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Mar-23-17 11:28		Mar-23-17 11:39		Mar-23-17 11:42		Mar-23-17 11:45		Mar-23-17 11:50		Mar-23-17 13:00	
BTEX by EPA 8021B	***Extracted:***	Mar-28-17 08:00		Mar-28-17 08:00		Mar-28-17 08:00		Mar-28-17 08:00		Mar-28-17 08:00		Mar-28-17 16:50	
	Analyzed:	Mar-28-17 14:25		Mar-28-17 14:41		Mar-28-17 14:57		Mar-28-17 15:21		Mar-28-17 15:37		Mar-29-17 07:08	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.00152	ND	0.00150	ND	0.00148	ND	0.00149	ND	0.00150	ND	0.00255
Toluene		ND	0.00202	ND	0.00200	ND	0.00197	ND	0.00198	ND	0.00200	ND	0.00340
Ethylbenzene		ND	0.00202	ND	0.00200	ND	0.00197	ND	0.00198	ND	0.00200	ND	0.00340
m_p-Xylenes		0.00322	0.00202	ND	0.00200	ND	0.00197	ND	0.00198	ND	0.00200	ND	0.00340
o-Xylene		ND	0.00303	ND	0.00301	ND	0.00296	ND	0.00298	ND	0.00301	ND	0.00510
Total Xylenes		0.00322	0.00202	ND	0.00200	ND	0.00197	ND	0.00198	ND	0.00200	ND	0.00340
Total BTEX		0.00322	0.00152	ND	0.00150	ND	0.00148	ND	0.00149	ND	0.00150	ND	0.00255
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 03:37		Apr-02-17 03:47		Apr-02-17 03:56		Apr-02-17 04:05		Apr-02-17 04:15		Apr-02-17 04:24	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		111	9.62	62.7	9.65	ND	9.82	300	9.73	445	9.98	34.8	9.88
TPH By SW8015 Mod	***Extracted:***	Mar-24-17 16:00		Mar-24-17 16:00		Mar-24-17 17:00		Mar-24-17 17:00		Mar-24-17 17:00		Mar-24-17 17:00	
	Analyzed:	Mar-25-17 15:35		Mar-25-17 15:57		Mar-26-17 03:23		Mar-26-17 03:43		Mar-27-17 06:44		Mar-26-17 04:27	
	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		296	74.7	ND	15.0	ND	15.0	18.0	15.0	25.4	15.0	ND	15.0
C10-C28 Diesel Range Organics		1820	74.7	ND	15.0	ND	15.0	1290	15.0	1930	15.0	258	15.0
C28-C35 Oil Range Hydrocarbons		229	74.7	ND	15.0	ND	15.0	160	15.0	227	15.0	45.0	15.0
Total TPH		2350	74.7	ND	15.0	ND	15.0	1470	15.0	2180	15.0	303	15.0

Kelsey Brooks
Project Manager

Certificate of Analysis Summary 549416

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: Fri Mar-24-17 02:55 pm
Report Date: 05-APR-17
Project Manager: Kelsey Brooks

Analysis Requested											
	Lab Id:	549416-025		549416-026		549416-027					
	Field Id:	SS-4 1'		NS-5 1'		S-5 6"					
	Depth:	1 ft		1 ft		6 In					
	Matrix:	SOIL		SOIL		SOIL					
	Sampled:	Mar-23-17 13:10		Mar-23-17 13:20		Mar-22-17 15:50					
BTEX by EPA 8021B	***Extracted:***	Mar-28-17 15:30		Mar-28-17 15:30		Mar-28-17 15:30					
	Analyzed:	Mar-28-17 23:47		Mar-28-17 18:05		Mar-28-17 18:22					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		ND	0.00148	ND	0.00150	ND	0.00149				
Toluene		ND	0.00198	ND	0.00200	ND	0.00199				
Ethylbenzene		ND	0.00198	ND	0.00200	ND	0.00199				
m_p-Xylenes		ND	0.00198	ND	0.00200	ND	0.00199				
o-Xylene		ND	0.00296	ND	0.00301	ND	0.00298				
Total Xylenes		ND	0.00198	ND	0.00200	ND	0.00199				
Total BTEX		ND	0.00148	ND	0.00150	ND	0.00149				
Chloride by EPA 300 SUB: TX104704215	***Extracted:***	Apr-01-17 13:54		Apr-01-17 13:54		Apr-01-17 13:54					
	Analyzed:	Apr-02-17 04:52		Apr-02-17 05:01		Apr-02-17 05:29					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		261	9.65	103	9.58	ND	9.47				
TPH By SW8015 Mod	***Extracted:***	Mar-24-17 17:00		Mar-24-17 17:00		Mar-24-17 17:00					
	Analyzed:	Mar-26-17 04:47		Mar-26-17 05:07		Mar-26-17 05:29					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
C6-C10 Gasoline Range Hydrocarbons		ND	15.0	ND	15.0	ND	15.0				
C10-C28 Diesel Range Organics		ND	15.0	351	15.0	ND	15.0				
C28-C35 Oil Range Hydrocarbons		ND	15.0	29.5	15.0	ND	15.0				
Total TPH		ND	15.0	381	15.0	ND	15.0				

Kelsey Brooks
Project Manager

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

***** (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

Form 2 - Surrogate Recoveries

Project Name: A14 Compressor Station Sump

Work Orders : 549416,

Project ID: TRC# 273818

Lab Batch #: 3013499 **Sample:** 549416-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/17 00:20

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	99.9	93	70-135	
o-Terphenyl	48.0	50.0	96	70-135	

Lab Batch #: 3013499 **Sample:** 549416-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/17 01:37

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.5	99.8	93	70-135	
o-Terphenyl	47.0	49.9	94	70-135	

Lab Batch #: 3013499 **Sample:** 549416-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/17 02:02

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	103	99.7	103	70-135	
o-Terphenyl	51.4	49.9	103	70-135	

Lab Batch #: 3013499 **Sample:** 549416-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/17 02:29

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	100	100	100	70-135	
o-Terphenyl	50.6	50.0	101	70-135	

Lab Batch #: 3013499 **Sample:** 549416-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/17 02:57

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	90.1	99.8	90	70-135	
o-Terphenyl	45.3	49.9	91	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 Sump

Work Orders : 549416,

Project ID: TRC# 273818

Lab Batch #: 3013499 **Sample:** 549416-006 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/17 03:24

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	99.2	99.8	99	70-135	
o-Terphenyl	51.2	49.9	103	70-135	

Lab Batch #: 3013499 **Sample:** 549416-007 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/17 03:50

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	98.5	99.8	99	70-135	
o-Terphenyl	45.8	49.9	92	70-135	

Lab Batch #: 3013499 **Sample:** 549416-009 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/17 04:43

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.6	99.7	95	70-135	
o-Terphenyl	48.2	49.9	97	70-135	

Lab Batch #: 3013499 **Sample:** 549416-011 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/17 12:48

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.7	99.9	97	70-135	
o-Terphenyl	49.7	50.0	99	70-135	

Lab Batch #: 3013499 **Sample:** 549416-012 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/17 13:10

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.3	99.8	91	70-135	
o-Terphenyl	46.9	49.9	94	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 Sump

Work Orders : 549416,

Project ID: TRC# 273818

Lab Batch #: 3013499 **Sample:** 549416-014 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/17 13:52

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	105	99.7	105	70-135	
o-Terphenyl	53.1	49.9	106	70-135	

Lab Batch #: 3013499 **Sample:** 549416-015 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/17 14:13

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	102	99.9	102	70-135	
o-Terphenyl	51.8	50.0	104	70-135	

Lab Batch #: 3013499 **Sample:** 549416-016 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/17 14:33

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	88.8	99.8	89	70-135	
o-Terphenyl	45.5	49.9	91	70-135	

Lab Batch #: 3013499 **Sample:** 549416-017 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/17 14:54

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	99.8	88	70-135	
o-Terphenyl	44.8	49.9	90	70-135	

Lab Batch #: 3013499 **Sample:** 549416-018 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/17 15:14

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.7	99.6	92	70-135	
o-Terphenyl	45.5	49.8	91	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 Sump

Work Orders : 549416,

Project ID: TRC# 273818

Lab Batch #: 3013499 **Sample:** 549416-019 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/17 15:35

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.7	99.6	92	70-135	
o-Terphenyl	46.2	49.8	93	70-135	

Lab Batch #: 3013499 **Sample:** 549416-020 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/17 15:57

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	49.7	49.9	100	70-135	

Lab Batch #: 3013501 **Sample:** 549416-021 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/26/17 03:23

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.4	99.8	90	70-135	
o-Terphenyl	46.2	49.9	93	70-135	

Lab Batch #: 3013501 **Sample:** 549416-022 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/26/17 03:43

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.9	99.7	97	70-135	
o-Terphenyl	40.5	49.9	81	70-135	

Lab Batch #: 3013501 **Sample:** 549416-024 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/26/17 04:27

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	85.8	99.9	86	70-135	
o-Terphenyl	44.0	50.0	88	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 Sump

Work Orders : 549416,

Project ID: TRC# 273818

Lab Batch #: 3013501 **Sample:** 549416-025 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/26/17 04:47

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.3	100	89	70-135	
o-Terphenyl	46.1	50.0	92	70-135	

Lab Batch #: 3013501 **Sample:** 549416-026 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/26/17 05:07

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.7	99.8	93	70-135	
o-Terphenyl	44.0	49.9	88	70-135	

Lab Batch #: 3013501 **Sample:** 549416-027 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/26/17 05:29

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	85.0	99.8	85	70-135	
o-Terphenyl	43.0	49.9	86	70-135	

Lab Batch #: 3013499 **Sample:** 549416-008 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/26/17 06:11

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.4	99.6	97	70-135	
o-Terphenyl	40.0	49.8	80	70-135	

Lab Batch #: 3013499 **Sample:** 549416-010 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/26/17 06:31

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.2	99.6	95	70-135	
o-Terphenyl	42.9	49.8	86	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 Sump

Work Orders : 549416,

Project ID: TRC# 273818

Lab Batch #: 3013499 **Sample:** 549416-013 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/26/17 06:50

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	51.8	50.0	104	70-135	

Lab Batch #: 3013501 **Sample:** 549416-023 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/27/17 06:44

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	101	99.7	101	70-135	
o-Terphenyl	43.2	49.9	87	70-135	

Lab Batch #: 3013449 **Sample:** 549416-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/27/17 08:55

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	0.0297	0.0300	99	80-120	

Lab Batch #: 3013451 **Sample:** 549416-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/27/17 21:58

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0349	0.0300	116	80-120	
4-Bromofluorobenzene	0.0296	0.0300	99	80-120	

Lab Batch #: 3013451 **Sample:** 549416-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/27/17 22:14

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0338	0.0300	113	80-120	
4-Bromofluorobenzene	0.0342	0.0300	114	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 Sump

Work Orders : 549416,

Project ID: TRC# 273818

Lab Batch #: 3013451 **Sample:** 549416-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/28/17 01:13

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0332	0.0300	111	80-120	
4-Bromofluorobenzene	0.0280	0.0300	93	80-120	

Lab Batch #: 3013451 **Sample:** 549416-010 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/28/17 06:14

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0251	0.0300	84	80-120	
4-Bromofluorobenzene	0.0287	0.0300	96	80-120	

Lab Batch #: 3013527 **Sample:** 549416-013 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/28/17 09:14

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0316	0.0300	105	80-120	
4-Bromofluorobenzene	0.0296	0.0300	99	80-120	

Lab Batch #: 3013527 **Sample:** 549416-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/28/17 09:29

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0321	0.0300	107	80-120	
4-Bromofluorobenzene	0.0267	0.0300	89	80-120	

Lab Batch #: 3013527 **Sample:** 549416-006 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/28/17 09:46

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0286	0.0300	95	80-120	
4-Bromofluorobenzene	0.0256	0.0300	85	80-120	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

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 Sump

Work Orders : 549416,

Project ID: TRC# 273818

Lab Batch #: 3013527 **Sample:** 549416-007 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/28/17 10:02

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0354	0.0300	118	80-120	
4-Bromofluorobenzene	0.0247	0.0300	82	80-120	

Lab Batch #: 3013527 **Sample:** 549416-008 / SMP **Batch:** 1 **Matrix:** Soil

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

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	0.0267	0.0300	89	80-120	

Lab Batch #: 3013527 **Sample:** 549416-009 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/28/17 10:35

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0327	0.0300	109	80-120	
4-Bromofluorobenzene	0.0271	0.0300	90	80-120	

Lab Batch #: 3013527 **Sample:** 549416-011 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/28/17 10:51

SURROGATE RECOVERY STUDY

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

Lab Batch #: 3013527 **Sample:** 549416-012 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/28/17 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	0.0313	0.0300	104	80-120	
4-Bromofluorobenzene	0.0288	0.0300	96	80-120	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

Form 2 - Surrogate Recoveries

Project Name: A14 Compressor Station Sump

Work Orders : 549416,

Project ID: TRC# 273818

Lab Batch #: 3013527 **Sample:** 549416-014 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/28/17 11:23

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0316	0.0300	105	80-120	
4-Bromofluorobenzene	0.0279	0.0300	93	80-120	

Lab Batch #: 3013527 **Sample:** 549416-015 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/28/17 11:40

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0320	0.0300	107	80-120	
4-Bromofluorobenzene	0.0261	0.0300	87	80-120	

Lab Batch #: 3013527 **Sample:** 549416-016 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/28/17 13:35

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0309	0.0300	103	80-120	
4-Bromofluorobenzene	0.0275	0.0300	92	80-120	

Lab Batch #: 3013527 **Sample:** 549416-017 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/28/17 13:52

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	0.0278	0.0300	93	80-120	

Lab Batch #: 3013527 **Sample:** 549416-018 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/28/17 14:08

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0349	0.0300	116	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.

Form 2 - Surrogate Recoveries

Project Name: A14 Compressor Station Sump

Work Orders : 549416,

Project ID: TRC# 273818

Lab Batch #: 3013527 **Sample:** 549416-019 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/28/17 14:25

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0293	0.0300	98	80-120	
4-Bromofluorobenzene	0.0243	0.0300	81	80-120	

Lab Batch #: 3013527 **Sample:** 549416-020 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/28/17 14:41

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0345	0.0300	115	80-120	
4-Bromofluorobenzene	0.0241	0.0300	80	80-120	

Lab Batch #: 3013527 **Sample:** 549416-021 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/28/17 14:57

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0309	0.0300	103	80-120	
4-Bromofluorobenzene	0.0251	0.0300	84	80-120	

Lab Batch #: 3013527 **Sample:** 549416-022 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/28/17 15:21

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0350	0.0300	117	80-120	
4-Bromofluorobenzene	0.0310	0.0300	103	80-120	

Lab Batch #: 3013527 **Sample:** 549416-023 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/28/17 15:37

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0306	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 Sump

Work Orders : 549416,

Project ID: TRC# 273818

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

Units: mg/kg **Date Analyzed:** 03/28/17 18:05

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	0.0275	0.0300	92	80-120	

Lab Batch #: 3013589 **Sample:** 549416-027 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/28/17 18:22

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0312	0.0300	104	80-120	
4-Bromofluorobenzene	0.0264	0.0300	88	80-120	

Lab Batch #: 3013589 **Sample:** 549416-025 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/28/17 23:47

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0326	0.0300	109	80-120	
4-Bromofluorobenzene	0.0254	0.0300	85	80-120	

Lab Batch #: 3013602 **Sample:** 549416-024 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/29/17 07:08

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0343	0.0300	114	80-120	
4-Bromofluorobenzene	0.0299	0.0300	100	80-120	

Lab Batch #: 3013499 **Sample:** 722212-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/24/17 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	94.8	100	95	70-135	
o-Terphenyl	49.0	50.0	98	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 Sump

Work Orders : 549416,

Project ID: TRC# 273818

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 #: 3013449 **Sample:** 722180-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/27/17 08:39

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0355	0.0300	118	80-120	
4-Bromofluorobenzene	0.0341	0.0300	114	80-120	

Lab Batch #: 3013527 **Sample:** 722233-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/27/17 08:39

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0355	0.0300	118	80-120	
4-Bromofluorobenzene	0.0341	0.0300	114	80-120	

Lab Batch #: 3013451 **Sample:** 722182-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/27/17 21:41

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0332	0.0300	111	80-120	
4-Bromofluorobenzene	0.0271	0.0300	90	80-120	

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	

* 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 Sump

Work Orders : 549416,

Project ID: TRC# 273818

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 #: 3013499 **Sample:** 722212-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/24/17 23:06

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	107	100	107	70-135	
o-Terphenyl	55.2	50.0	110	70-135	

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	

Lab Batch #: 3013449 **Sample:** 722180-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/27/17 07:17

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	0.0312	0.0300	104	80-120	

Lab Batch #: 3013527 **Sample:** 722233-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/27/17 07:17

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	0.0312	0.0300	104	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 Sump

Work Orders : 549416,

Project ID: TRC# 273818

Lab Batch #: 3013451 **Sample:** 722182-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/27/17 20:19

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0339	0.0300	113	80-120	
4-Bromofluorobenzene	0.0282	0.0300	94	80-120	

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	

Lab Batch #: 3013499 **Sample:** 722212-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/24/17 23:30

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	117	100	117	70-135	
o-Terphenyl	55.7	50.0	111	70-135	

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	

* 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 Sump

Work Orders : 549416,

Project ID: TRC# 273818

Lab Batch #: 3013449 **Sample:** 722180-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/27/17 07:33

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0316	0.0300	105	80-120	
4-Bromofluorobenzene	0.0252	0.0300	84	80-120	

Lab Batch #: 3013527 **Sample:** 722233-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/27/17 07:33

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0316	0.0300	105	80-120	
4-Bromofluorobenzene	0.0252	0.0300	84	80-120	

Lab Batch #: 3013451 **Sample:** 722182-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/27/17 20:35

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	0.0329	0.0300	110	80-120	

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	

* 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 Sump

Work Orders : 549416,

Project ID: TRC# 273818

Lab Batch #: 3013499 **Sample:** 549416-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/17 00:44

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	103	99.9	103	70-135	
o-Terphenyl	47.5	50.0	95	70-135	

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 #: 3013449 **Sample:** 549416-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/27/17 07:50

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0308	0.0300	103	80-120	
4-Bromofluorobenzene	0.0304	0.0300	101	80-120	

Lab Batch #: 3013451 **Sample:** 549416-002 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/27/17 20:52

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0357	0.0300	119	80-120	
4-Bromofluorobenzene	0.0351	0.0300	117	80-120	

Lab Batch #: 3013527 **Sample:** 549416-013 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/28/17 08:08

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0328	0.0300	109	80-120	
4-Bromofluorobenzene	0.0296	0.0300	99	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 Sump

Work Orders : 549416,

Project ID: TRC# 273818

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	

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 #: 3013499 **Sample:** 549416-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/17 01:10

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	98.3	99.7	99	70-135	
o-Terphenyl	46.2	49.9	93	70-135	

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 #: 3013449 **Sample:** 549416-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/27/17 08:06

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0350	0.0300	117	80-120	
4-Bromofluorobenzene	0.0329	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 Sump

Work Orders : 549416,

Project ID: TRC# 273818

Lab Batch #: 3013451 **Sample:** 549416-002 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/27/17 21:08

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0358	0.0300	119	80-120	
4-Bromofluorobenzene	0.0338	0.0300	113	80-120	

Lab Batch #: 3013527 **Sample:** 549416-013 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/28/17 08:25

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0339	0.0300	113	80-120	
4-Bromofluorobenzene	0.0310	0.0300	103	80-120	

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 Sump

Work Order #: 549416 **Project ID:** TRC# 273818

Analyst: ALJ **Date Prepared:** 03/27/2017 **Date Analyzed:** 03/27/2017

Lab Batch ID: 3013449 **Sample:** 722180-1-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	0.0998	0.0829	83	0.100	0.0801	80	3	70-130	35	
Toluene	<0.00200	0.0998	0.0936	94	0.100	0.0851	85	10	70-130	35	
Ethylbenzene	<0.00200	0.0998	0.0919	92	0.100	0.0876	88	5	71-129	35	
m_p-Xylenes	<0.00200	0.200	0.178	89	0.201	0.173	86	3	70-135	35	
o-Xylene	<0.00299	0.0998	0.0940	94	0.100	0.0892	89	5	71-133	35	

Analyst: ALJ **Date Prepared:** 03/27/2017 **Date Analyzed:** 03/27/2017

Lab Batch ID: 3013451 **Sample:** 722182-1-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	0.0998	0.0802	80	0.0992	0.0878	89	9	70-130	35	
Toluene	<0.00200	0.0998	0.0850	85	0.0992	0.0947	95	11	70-130	35	
Ethylbenzene	<0.00200	0.0998	0.0833	83	0.0992	0.0958	97	14	71-129	35	
m_p-Xylenes	<0.00200	0.200	0.161	81	0.198	0.186	94	14	70-135	35	
o-Xylene	<0.00299	0.0998	0.0845	85	0.0992	0.0966	97	13	71-133	35	

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

BS / BSD Recoveries

Project Name: A14 Compressor Station Sump

Work Order #: 549416 **Project ID:** TRC# 273818

Analyst: ALJ **Date Prepared:** 03/28/2017 **Date Analyzed:** 03/27/2017

Lab Batch ID: 3013527 **Sample:** 722233-1-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	0.0998	0.0829	83	0.100	0.0799	80	4	70-130	35	
Toluene	<0.00200	0.0998	0.0936	94	0.100	0.0849	85	10	70-130	35	
Ethylbenzene	<0.00200	0.0998	0.0919	92	0.100	0.0875	88	5	71-129	35	
m_p-Xylenes	<0.00200	0.200	0.178	89	0.200	0.173	87	3	70-135	35	
o-Xylene	<0.00299	0.0998	0.0940	94	0.100	0.0890	89	5	71-133	35	

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	

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 Sump

Work Order #: 549416 **Project ID:** TRC# 273818

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:** 04/01/2017

Lab Batch ID: 3013911 **Sample:** 722455-1-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	10.0	100	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 Sump

Work Order #: 549416 **Project ID:** TRC# 273818

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:** 04/03/2017 **Date Analyzed:** 04/03/2017

Lab Batch ID: 3014002 **Sample:** 722515-1-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	<2.00	20.0	20.2	101	20.0	19.8	99	2	80-120	20	

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

Lab Batch ID: 3013499 **Sample:** 722212-1-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	1070	107	1000	1150	115	7	70-135	35	
C10-C28 Diesel Range Organics	<15.0	1000	1060	106	1000	1130	113	6	70-135	35	

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

BS / BSD Recoveries

Project Name: A14 Compressor Station Sump

Work Order #: 549416 **Project ID:** TRC# 273818

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 Sump

Work Order # : 549416 **Project ID:** TRC# 273818

Lab Batch ID: 3013449 **QC- Sample ID:** 549416-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 03/27/2017 **Date Prepared:** 03/27/2017 **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	0.0740	74	0.0994	0.0741	75	0	70-130	35	
Toluene	<0.00200	0.0998	0.0771	77	0.0994	0.0743	75	4	70-130	35	
Ethylbenzene	<0.00200	0.0998	0.0752	75	0.0994	0.0704	71	7	71-129	35	
m_p-Xylenes	<0.00200	0.200	0.149	75	0.199	0.142	71	5	70-135	35	
o-Xylene	<0.00299	0.0998	0.0818	82	0.0994	0.0756	76	8	71-133	35	

Lab Batch ID: 3013451 **QC- Sample ID:** 549416-002 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 03/27/2017 **Date Prepared:** 03/27/2017 **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	<0.00149	0.0990	0.0701	71	0.0994	0.0736	74	5	70-130	35	
Toluene	<0.00198	0.0990	0.0732	74	0.0994	0.0717	72	2	70-130	35	
Ethylbenzene	<0.00198	0.0990	0.0708	72	0.0994	0.0702	71	1	71-129	35	
m_p-Xylenes	<0.00198	0.198	0.143	72	0.199	0.133	67	7	70-135	35	X
o-Xylene	<0.00297	0.0990	0.0736	74	0.0994	0.0727	73	1	71-133	35	

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

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

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

Form 3 - MS / MSD Recoveries

Project Name: A14 Compressor Station Sump

Work Order # : 549416 **Project ID:** TRC# 273818

Lab Batch ID: 3013527 **QC- Sample ID:** 549416-013 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	<0.00151	0.101	0.0864	86	0.101	0.0755	75	13	70-130	35	
Toluene	<0.00201	0.101	0.0896	89	0.101	0.0767	76	16	70-130	35	
Ethylbenzene	<0.00201	0.101	0.0860	85	0.101	0.0735	73	16	71-129	35	
m_p-Xylenes	<0.00201	0.201	0.166	83	0.202	0.143	71	15	70-135	35	
o-Xylene	<0.00302	0.101	0.0928	92	0.101	0.0735	73	23	71-133	35	

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	

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 Sump

Work Order # : 549416 **Project ID:** TRC# 273818

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: 3013911 **QC- Sample ID:** 549265-021 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 04/01/2017 **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	1160	99.4	1380	221	99.4	1360	201	1	80-120	20	X

Lab Batch ID: 3013911 **QC- Sample ID:** 549416-002 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 04/01/2017 **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	38.8	98.8	142	104	98.8	141	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 Sump

Work Order # : 549416 **Project ID:** TRC# 273818

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: 3014002 **QC- Sample ID:** 549470-012 S **Batch #:** 1 **Matrix:** Solid

Date Analyzed: 04/03/2017 **Date Prepared:** 04/03/2017 **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	8090	100	7970	0	100	7980	0	0	80-120	20	X

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

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

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

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

Form 3 - MS / MSD Recoveries

Project Name: A14 Compressor Station Sump

Work Order # : 549416 **Project ID:** TRC# 273818

Lab Batch ID: 3014002 **QC- Sample ID:** 549470-020 S **Batch #:** 1 **Matrix:** Solid

Date Analyzed: 04/04/2017 **Date Prepared:** 04/03/2017 **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	43.6	100	148	104	100	147	103	1	80-120	20	

Lab Batch ID: 3013499 **QC- Sample ID:** 549416-001 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	999	1050	105	997	998	100	5	70-135	35	
C10-C28 Diesel Range Organics	79.9	999	1030	95	997	993	92	4	70-135	35	

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
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 1 of 3

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 Sump

Company Name: TRC Environmental Corporation

Project #: TRC #: 273818

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 #: 549416

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
	S-1 6"			3/22	1300		1	x								Soil	x								x			x		x
	S-1 1'				1305		1	x								Soil	x								x			x		x
	S-2 6"				1315		1	x								Soil	x								x			x		x
	S-2 1'				1320		1	x								Soil	x								x			x		x
	S-3 6"				1335		1	x								Soil	x								x			x		x
	S-3 1'				1340		1	x								Soil	x								x			x		x
	S-4 6"				1530		1	x								Soil	x								x			x		x
	S-4 1'				1535		1	x								Soil	x								x			x		x
	S-5 1'				1555		1	x								Soil	x								x			x		x
	S-6 6"			3/23	930		1	x								Soil	x								x			x		x
	S-6 1'				945		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	MCRAMER	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	
by Courier? UPS DHL		IR ID:R-8

Temperature Up Temp: 2.1 CF: +0.1 Corrected Temp: 2.2

Final 1.000

Xenco Laboratories

The Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST 2 of 3

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 #: 549416

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
	S-7 6"			3/23	950		1	x								Soil	x								x			x				x
	S-7 1'				1005		1	x								Soil	x								x			x				x
	NS-1 1'				1010		1	x								Soil	x								x			x				x
	SS-1 1'				1020		1	x								Soil	x								x			x				x
	NS-2 1'				1100		1	x								Soil	x								x			x				x
	SS-2 1'				1115		1	x								Soil	x								x			x				x
	S-3 16"				1120		1	x								Soil	x								x			x				x
	S-3 22"				1128		1	x								Soil	x								x			x				x
	WS-3 1'				1139		1	x								Soil	x								x			x				x
	ES-3 1'				1142		1	x								Soil	x								x			x				x
	S-4 21"				1145		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	J 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	Y	N
by Sa		N
by C		

Temp: IR ID:R-8 ne Star

CF: +0.1 2.1

Tempera Corrected Temp: 2.2 °C

Final 1.000

Xenco Laboratories

The Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

373

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 Sump

Company Name: TRC Environmental Corporation

Project #: TRC #: 273818

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 #: 549416

Analyze For:

TCLP:
TOTAL:

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	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
	S-4 2'			3/23	1150		1	x								Soil	x								x			x				x
	NS-4 1'				1300		1	x								Soil	x								x			x				x
	SS-4 1'				1310		1	x								Soil	x								x			x				x
	NS-5 1'				1320		1	x								Soil	x								x			x				x
	S-5 6"			3/22	1550		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	FRAMER	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?		FedEx Lone Star

Temperature Upon: Temp: CF: +0.1 Corrected Temp: 2.1 2.2

IR ID:R-8

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 #: 549416

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

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY 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

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY 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

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: IR ID:R-8 Star
CF: +0.1 2.1
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 #: 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

Certificate of Analysis Summary 553893

TRC Solutions, Inc, Midland, TX

Project Name: A-14 Compressor Station Sump

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

Date Received in Lab: Wed May-24-17 04:10 pm
Report Date: 30-MAY-17
Project Manager: Liz Givens

Analysis Requested							
	Lab Id:	553893-001					
	Field Id:	BH-1@ 8"					
	Depth:	8 In					
	Matrix:	SOIL					
	Sampled:	May-23-17 11:25					
BTEX by EPA 8021B	***Extracted:***	May-25-17 08:00					
	Analyzed:	May-25-17 10:36					
	Units/RL:	mg/kg RL					
Benzene		<0.00353 0.00353					
Toluene		<0.00353 0.00353					
Ethylbenzene		<0.00353 0.00353					
m,p-Xylenes		<0.00707 0.00707					
o-Xylene		<0.00353 0.00353					
Total Xylenes		<0.00353 0.00353					
Total BTEX		<0.00353 0.00353					
Chloride by EPA 300	***Extracted:***	May-26-17 08:00					
	Analyzed:	May-26-17 09:47					
	Units/RL:	mg/kg RL					
Chloride		8.06 4.98					
TPH by SW8015 Mod	***Extracted:***	May-26-17 17:00					
	Analyzed:	May-27-17 14:48					
	Units/RL:	mg/kg RL					
C6-C10 Gasoline Range Hydrocarbons		<15.0 15.0					
C10-C28 Diesel Range Organics		203 15.0					
C28-C35 Oil Range Hydrocarbons		303 15.0					
Total TPH		506 15.0					

Brandi Ritcherson
Project Manager

Analytical Report 553893

for

TRC Solutions, Inc

Project Manager: Nikki Green

A-14 Compressor Station Sump

TRC#273818

30-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)

30-MAY-17

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

Reference: XENCO Report No(s): **553893**
A-14 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) 553893. 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. 553893 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,

Brandi Ritcherson
Project Manager

Sample Cross Reference 553893

TRC Solutions, Inc, Midland, TX

A-14 Compressor Station Sump

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH-1@ 8"	S	05-23-17 11:25	- 8 In	553893-001

Client Name: TRC Solutions, Inc

Project Name: A-14 Compressor Station Sump

Project ID: *TRC#273818*
Work Order Number(s): *553893*

Report Date: *30-MAY-17*
Date Received: *05/24/2017*

Sample receipt non conformances and comments:

5/30/17: 1.001 corrected project name.

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3018244 BTEX by EPA 8021B

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

Certificate of Analytical Results 553893

TRC Solutions, Inc, Midland, TX

A-14 Compressor Station Sump

Sample Id:	**BH-1@ 8"**	Matrix:	Soil	Date Received:	05.24.17 16.10
Lab Sample Id:	553893-001	Date Collected:	05.23.17 11.25	Sample Depth:	8 In

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MGO			% Moisture:	
Analyst:	MGO	Date Prep:	05.26.17 08.00	Basis:	Wet Weight
Seq Number:	3018325				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**8.06**	4.98	mg/kg	05.26.17 09.47		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	05.26.17 17.00	Basis:	Wet Weight
Seq Number:	3018367				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<15.0	15.0	mg/kg	05.27.17 14.48	U	1
C10-C28 Diesel Range Organics	C10C28DRO	**203**	15.0	mg/kg	05.27.17 14.48		1
C28-C35 Oil Range Hydrocarbons	PHCG2835	**303**	15.0	mg/kg	05.27.17 14.48		1
Total TPH	PHC635	**506**	15.0	mg/kg	05.27.17 14.48		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	05.27.17 14.48	
o-Terphenyl	84-15-1	102	%	70-135	05.27.17 14.48	

Certificate of Analytical Results 553893

TRC Solutions, Inc, Midland, TX

A-14 Compressor Station Sump

Sample Id:	**BH-1@ 8"**	Matrix:	Soil	Date Received:	05.24.17 16.10
Lab Sample Id:	553893-001	Date Collected:	05.23.17 11.25	Sample Depth:	8 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	05.25.17 08.00	Basis:	Wet Weight
Seq Number:	3018244				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00353	0.00353	mg/kg	05.25.17 10.36	U	1
Toluene	108-88-3	<0.00353	0.00353	mg/kg	05.25.17 10.36	U	1
Ethylbenzene	100-41-4	<0.00353	0.00353	mg/kg	05.25.17 10.36	U	1
m,p-Xylenes	179601-23-1	<0.00707	0.00707	mg/kg	05.25.17 10.36	U	1
o-Xylene	95-47-6	<0.00353	0.00353	mg/kg	05.25.17 10.36	U	1
Total Xylenes	1330-20-7	<0.00353	0.00353	mg/kg	05.25.17 10.36	U	1
Total BTEX		<0.00353	0.00353	mg/kg	05.25.17 10.36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	93	%	80-120	05.25.17 10.36	
4-Bromofluorobenzene	460-00-4	113	%	80-120	05.25.17 10.36	

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 553893

TRC Solutions, Inc

A-14 Compressor Station Sump

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3018325 Matrix: Solid Date Prep: 05.26.17
MB Sample Id: 725214-1-BLK LCS Sample Id: 725214-1-BKS LCSD Sample Id: 725214-1-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	264	106	263	105	90-110	0	20	mg/kg	05.26.17 09:09	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3018325 Matrix: Soil Date Prep: 05.26.17
Parent Sample Id: 553892-001 MS Sample Id: 553892-001 S MSD Sample Id: 553892-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	52.5	247	301	101	302	101	90-110	0	20	mg/kg	05.26.17 09:32	

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3018367 Matrix: Solid Date Prep: 05.26.17
MB Sample Id: 725298-1-BLK LCS Sample Id: 725298-1-BKS LCSD Sample Id: 725298-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
C6-C10 Gasoline Range Hydrocarbons	<15.0	1000	1010	101	1110	111	70-135	9	35	mg/kg	05.27.17 13:04	
C10-C28 Diesel Range Organics	<15.0	1000	1030	103	1070	107	70-135	4	35	mg/kg	05.27.17 13:04	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	118		105		120		70-135	%	05.27.17 13:04
o-Terphenyl	117		104		117		70-135	%	05.27.17 13:04

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3018367 Matrix: Soil Date Prep: 05.26.17
Parent Sample Id: 553892-001 MS Sample Id: 553892-001 S MSD Sample Id: 553892-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
C6-C10 Gasoline Range Hydrocarbons	<15.0	999	981	98	1030	103	70-135	5	35	mg/kg	05.27.17 14:06	
C10-C28 Diesel Range Organics	187	999	1130	94	1150	96	70-135	2	35	mg/kg	05.27.17 14:06	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	100		118		70-135	%	05.27.17 14:06
o-Terphenyl	76		108		70-135	%	05.27.17 14:06

QC Summary 553893

TRC Solutions, Inc

A-14 Compressor Station Sump

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

Seq Number: 3018244 Matrix: Solid Date Prep: 05.25.17

MB Sample Id: 725225-1-BLK LCS Sample Id: 725225-1-BKS LCSD Sample Id: 725225-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.100	0.0826	83	0.0767	76	70-130	7	35	mg/kg	05.25.17 07:20	
Toluene	<0.00201	0.100	0.0823	82	0.0810	80	70-130	2	35	mg/kg	05.25.17 07:20	
Ethylbenzene	<0.00201	0.100	0.0915	92	0.0810	80	71-129	12	35	mg/kg	05.25.17 07:20	
m,p-Xylenes	<0.00402	0.201	0.177	88	0.165	82	70-135	7	35	mg/kg	05.25.17 07:20	
o-Xylene	<0.00201	0.100	0.0865	87	0.0803	80	71-133	7	35	mg/kg	05.25.17 07:20	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	93		115		101		80-120	%	05.25.17 07:20
4-Bromofluorobenzene	92		118		101		80-120	%	05.25.17 07:20

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

Seq Number: 3018244 Matrix: Soil Date Prep: 05.25.17

Parent Sample Id: 553764-001 MS Sample Id: 553764-001 S MSD Sample Id: 553764-001 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	0.0527	53	0.0647	65	70-130	20	35	mg/kg	05.25.17 07:52	X
Toluene	<0.00201	0.100	0.0553	55	0.0688	69	70-130	22	35	mg/kg	05.25.17 07:52	X
Ethylbenzene	<0.00201	0.100	0.0562	56	0.0640	64	71-129	13	35	mg/kg	05.25.17 07:52	X
m,p-Xylenes	<0.00402	0.201	0.102	51	0.125	63	70-135	20	35	mg/kg	05.25.17 07:52	X
o-Xylene	<0.00201	0.100	0.0543	54	0.0658	66	71-133	19	35	mg/kg	05.25.17 07:52	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		100		80-120	%	05.25.17 07:52
4-Bromofluorobenzene	117		118		80-120	%	05.25.17 07:52

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 #: 553893

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 3-Day TAT
	BH-1 @ 8"			5/23/217	1125		1	x								Soil	x								x			x				x

Temp: 1.8 IR ID:R-8
CF:(0-6: -0.2°C)
(6-23: +0.2°C)
Corrected Temp: 1.6

Special Instructions:

Bill to Rose Slade at Energy Transfer.

Relinquished by:	Date	Time	Received by:	Date	Time
Nikki Green	4/24/17	1530	MANS	5/24/17	16:10
Chance Bontright	5/24/17	16:10	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 1.001

XENCO Laboratories
Prelogin/Nonconformance Report- Sample Log-In

Client: TRC Solutions, Inc

Date/ Time Received: 05/24/2017 04:10:00 PM

Work Order #: 553893

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

Temperature Measuring device used : r8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	1.6
#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**
#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: 05/24/2017
Marithza Anaya

Checklist reviewed by: Holly Taylor Date: 05/26/2017
Holly Taylor

Certificate of Analysis Summary 555846

TRC Solutions, Inc, Midland, TX

Project Name: A-14 Sump

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:	555846-001		555846-002		555846-003					
	Field Id:	BH-6 6"		BH-7 6"		BH-2 6"					
	Depth:	6- In		6- In		6- In					
	Matrix:	SOIL		SOIL		SOIL					
	Sampled:	Jun-15-17 16:00		Jun-15-17 16:10		Jun-16-17 11:00					
BTEX by EPA 8021B	***Extracted:***	Jun-24-17 11:30		Jun-24-17 11:30		Jun-24-17 11:30					
	Analyzed:	Jun-25-17 05:48		Jun-25-17 06:04		Jun-25-17 06:20					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		<0.00201	0.00201	<0.00200	0.00200	<0.00198	0.00198				
Toluene		<0.00201	0.00201	<0.00200	0.00200	<0.00198	0.00198				
Ethylbenzene		<0.00201	0.00201	<0.00200	0.00200	<0.00198	0.00198				
m,p-Xylenes		<0.00402	0.00402	<0.00399	0.00399	<0.00397	0.00397				
o-Xylene		<0.00201	0.00201	<0.00200	0.00200	<0.00198	0.00198				
Total Xylenes		<0.00201	0.00201	<0.00200	0.00200	<0.00198	0.00198				
Total BTEX		<0.00201	0.00201	<0.00200	0.00200	<0.00198	0.00198				
Chloride by EPA 300	***Extracted:***	Jun-26-17 10:05		Jun-26-17 10:05		Jun-26-17 10:05					
	Analyzed:	Jun-26-17 12:20		Jun-26-17 12:28		Jun-26-17 12:51					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		8.45	4.96	5.85	4.93	32.4	4.99				
TPH by SW8015 Mod	***Extracted:***	Jun-24-17 16:00		Jun-24-17 16:00		Jun-24-17 16:00					
	Analyzed:	Jun-25-17 05:08		Jun-25-17 05:29		Jun-25-17 06:33					
	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		97.1	15.0	109	15.0	<15.0	15.0				
Oil Range Hydrocarbons		63.2	15.0	122	15.0	<15.0	15.0				
Total TPH		160	15.0	231	15.0	<15.0	15.0				

Kelsey Brooks
Project Manager

Analytical Report 555846

for

TRC Solutions, Inc

Project Manager: Nikki Green

A-14 Sump

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): **555846**
A-14 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) 555846. 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. 555846 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 555846

TRC Solutions, Inc, Midland, TX

A-14 Sump

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH-6 6"	S	06-15-17 16:00	6 In	555846-001
BH-7 6"	S	06-15-17 16:10	6 In	555846-002
BH-2 6"	S	06-16-17 11:00	6 In	555846-003

Client Name: TRC Solutions, Inc
Project Name: A-14 Sump

Project ID:
Work Order Number(s): *555846*

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 555846

TRC Solutions, Inc, Midland, TX

A-14 Sump

Sample Id:	**BH-6 6"**	Matrix:	Soil	Date Received:	06.21.17 08.40
Lab Sample Id:	555846-001	Date Collected:	06.15.17 16.00	Sample Depth:	6 In

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	**8.45**	4.96	mg/kg	06.26.17 12.20		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 05.08	U	1
Diesel Range Organics	C10C28DRO	**97.1**	15.0	mg/kg	06.25.17 05.08		1
Oil Range Hydrocarbons	PHCG2835	**63.2**	15.0	mg/kg	06.25.17 05.08		1
Total TPH	PHC635	**160**	15.0	mg/kg	06.25.17 05.08		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-135	06.25.17 05.08	
o-Terphenyl	84-15-1	104	%	70-135	06.25.17 05.08	

Certificate of Analytical Results 555846

TRC Solutions, Inc, Midland, TX

A-14 Sump

Sample Id:	**BH-6 6"**	Matrix:	Soil	Date Received:	06.21.17 08.40
Lab Sample Id:	555846-001	Date Collected:	06.15.17 16.00	Sample Depth:	6 In
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 05.48	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	06.25.17 05.48	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	06.25.17 05.48	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	06.25.17 05.48	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	06.25.17 05.48	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	06.25.17 05.48	U	1
Total BTEX		<0.00201	0.00201	mg/kg	06.25.17 05.48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	84	%	80-120	06.25.17 05.48	
4-Bromofluorobenzene	460-00-4	91	%	80-120	06.25.17 05.48	

Certificate of Analytical Results 555846

TRC Solutions, Inc, Midland, TX

A-14 Sump

Sample Id:	**BH-7 6"**	Matrix:	Soil	Date Received:	06.21.17 08.40
Lab Sample Id:	555846-002	Date Collected:	06.15.17 16.10	Sample Depth:	6 In

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	**5.85**	4.93	mg/kg	06.26.17 12.28		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 05.29	U	1
Diesel Range Organics	C10C28DRO	**109**	15.0	mg/kg	06.25.17 05.29		1
Oil Range Hydrocarbons	PHCG2835	**122**	15.0	mg/kg	06.25.17 05.29		1
Total TPH	PHC635	**231**	15.0	mg/kg	06.25.17 05.29		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-135	06.25.17 05.29	
o-Terphenyl	84-15-1	107	%	70-135	06.25.17 05.29	

Certificate of Analytical Results 555846

TRC Solutions, Inc, Midland, TX

A-14 Sump

Sample Id:	**BH-7 6"**	Matrix:	Soil	Date Received:	06.21.17 08.40
Lab Sample Id:	555846-002	Date Collected:	06.15.17 16.10	Sample Depth:	6 In
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	<0.00200	0.00200	mg/kg	06.25.17 06.04	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.25.17 06.04	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.25.17 06.04	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	06.25.17 06.04	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.25.17 06.04	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.25.17 06.04	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.25.17 06.04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	89	%	80-120	06.25.17 06.04	
1,4-Difluorobenzene	540-36-3	88	%	80-120	06.25.17 06.04	

Certificate of Analytical Results 555846

TRC Solutions, Inc, Midland, TX

A-14 Sump

Sample Id:	**BH-2 6"**	Matrix:	Soil	Date Received:	06.21.17 08.40
Lab Sample Id:	555846-003	Date Collected:	06.16.17 11.00	Sample Depth:	6 In

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	**32.4**	4.99	mg/kg	06.26.17 12.51		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 06.33	U	1
Diesel Range Organics	C10C28DRO	<15.0	15.0	mg/kg	06.25.17 06.33	U	1
Oil Range Hydrocarbons	PHCG2835	<15.0	15.0	mg/kg	06.25.17 06.33	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.25.17 06.33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-135	06.25.17 06.33	
o-Terphenyl	84-15-1	106	%	70-135	06.25.17 06.33	

Certificate of Analytical Results 555846

TRC Solutions, Inc, Midland, TX

A-14 Sump

Sample Id:	**BH-2 6"**	Matrix:	Soil	Date Received:	06.21.17 08.40
Lab Sample Id:	555846-003	Date Collected:	06.16.17 11.00	Sample Depth:	6 In
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	<0.00198	0.00198	mg/kg	06.25.17 06.20	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	06.25.17 06.20	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	06.25.17 06.20	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	06.25.17 06.20	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	06.25.17 06.20	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	06.25.17 06.20	U	1
Total BTEX		<0.00198	0.00198	mg/kg	06.25.17 06.20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	84	%	80-120	06.25.17 06.20	
1,4-Difluorobenzene	540-36-3	87	%	80-120	06.25.17 06.20	

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 555846

TRC Solutions, Inc

A-14 Sump

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 555846

TRC Solutions, Inc

A-14 Sump

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

CHAIN OF CUSTODY

Page 1 Of 1

XENCO LABORATORIES

Setting the Standard since 1990

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Xenco Quote #
Xenco Job # 555844

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: C. Hughes for N. Green

Project Information

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

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	Collection: Date	Collection: Time	Matrix	# of bottles	Number of preserved bottles: HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	ICE	Analytical Information: TPH by Method 8015M	BTEX by Method 2081B	Chloride by EPA 300.1	Field Comments
1	BH-6 6"	6"	6/15/2017	1600	S	1- 4oz glass								X	X	X	X	
2	BH-7 6"	6"	6/15/2017	1610	S	1- 4oz glass								X	X	X	X	
3	BH-2 6"	6"	6/16/2017	1100	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: Tracki

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:	Received
1	C. Hughes	6/21/17 0845	M. Green 6/21/17	2		2
3				4		4
5						

Custody Seal # | Preserved where applicable | On Ice [X] | 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 #: 555846

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 556209

TRC Solutions, Inc, Midland, TX

Project Name: A-14 Compressor Station Sump

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

Date Received in Lab: Fri Jun-23-17 03:33 pm
Report Date: 28-JUN-17
Project Manager: Kelsey Brooks

Analysis Requested													
	Lab Id:	556209-001		556209-002		556209-003		556209-004		556209-005		556209-006	
	Field Id:	BH-3 2'		ESW-1 1'		WSW-1 1'		BH-5 6"		BH-4 2'		NSW-1 1'	
	Depth:	2- ft		1- ft		1- ft		6- In		2- ft		1- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jun-19-17 16:00		Jun-19-17 16:15		Jun-19-17 16:17		Jun-19-17 16:30		Jun-20-17 10:00		Jun-20-17 10:05	
BTEX by EPA 8021B	***Extracted:***	Jun-27-17 15:00		Jun-27-17 15:00		Jun-27-17 15:00		Jun-27-17 15:00		Jun-27-17 15:00		Jun-27-17 15:00	
	Analyzed:	Jun-27-17 21:53		Jun-27-17 22:09		Jun-27-17 22:25		Jun-27-17 22:42		Jun-27-17 22:58		Jun-27-17 23:14	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199	<0.00199	0.00199
Toluene		<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199	<0.00199	0.00199
Ethylbenzene		<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199	<0.00199	0.00199
m,p-Xylenes		<0.00402	0.00402	<0.00399	0.00399	<0.00400	0.00400	<0.00402	0.00402	<0.00398	0.00398	<0.00398	0.00398
o-Xylene		<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199	<0.00199	0.00199
Total Xylenes		<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199	<0.00199	0.00199
Total BTEX		<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199	<0.00199	0.00199
Chloride by EPA 300	***Extracted:***	Jun-27-17 13:50		Jun-27-17 13:50		Jun-27-17 13:50		Jun-27-17 13:50		Jun-27-17 13:50		Jun-27-17 13:50	
	Analyzed:	Jun-27-17 22:47		Jun-27-17 22:55		Jun-27-17 23:17		Jun-27-17 23:25		Jun-27-17 23:48		Jun-27-17 23:55	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		48.9	4.96	36.3	4.99	165	4.91	20.0	4.97	65.3	4.98	39.7	4.98
TPH by SW8015 Mod	***Extracted:***	Jun-26-17 07:00		Jun-26-17 07:00		Jun-26-17 07:00		Jun-26-17 07:00		Jun-26-17 07:00		Jun-26-17 07:00	
	Analyzed:	Jun-26-17 11:36		Jun-26-17 12:36		Jun-26-17 12:56		Jun-26-17 13:16		Jun-26-17 13:36		Jun-26-17 13:56	
	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	<14.9	14.9	<15.0	15.0	<15.0	15.0
Diesel Range Organics		53.3	15.0	25.8	15.0	255	15.0	<14.9	14.9	<15.0	15.0	<15.0	15.0
Oil Range Hydrocarbons		64.7	15.0	<15.0	15.0	66.2	15.0	<14.9	14.9	<15.0	15.0	<15.0	15.0
Total TPH		118	15.0	25.8	15.0	321	15.0	<14.9	14.9	<15.0	15.0	<15.0	15.0

Kelsey Brooks
Project Manager

Certificate of Analysis Summary 553892

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 May-24-17 04:10 pm
Report Date: 30-MAY-17
Project Manager: Liz Givens

Analysis Requested							
	Lab Id:	553892-001					
	Field Id:	Hydrovac Solids					
	Depth:						
	Matrix:	SOIL					
	Sampled:	May-23-17 11:30					
BTEX by EPA 8021B	***Extracted:***	May-25-17 08:00					
	Analyzed:	May-25-17 10:02					
	Units/RL:	mg/kg	RL				
Benzene		<0.00201	0.00201				
Toluene		<0.00201	0.00201				
Ethylbenzene		<0.00201	0.00201				
m,p-Xylenes		<0.00402	0.00402				
o-Xylene		<0.00201	0.00201				
Total Xylenes		<0.00201	0.00201				
Total BTEX		<0.00201	0.00201				
Chloride by EPA 300	***Extracted:***	May-26-17 08:00					
	Analyzed:	May-26-17 09:24					
	Units/RL:	mg/kg	RL				
Chloride		52.5	4.93				
TPH by SW8015 Mod	***Extracted:***	May-26-17 17:00					
	Analyzed:	May-27-17 13:45					
	Units/RL:	mg/kg	RL				
C6-C10 Gasoline Range Hydrocarbons		<15.0	15.0				
C10-C28 Diesel Range Organics		187	15.0				
C28-C35 Oil Range Hydrocarbons		265	15.0				
Total TPH		452	15.0				

Brandi Ritcherson
Project Manager

Certificate of Analysis Summary 556209

TRC Solutions, Inc, Midland, TX

Project Name: A-14 Compressor Station Sump

Project Id:

Contact: Nikki Green

Project Location: Lea County, NM

Date Received in Lab: Fri Jun-23-17 03:33 pm

Report Date: 28-JUN-17

Project Manager: Kelsey Brooks

Analysis Requested													
	Lab Id:	556209-007		556209-008		556209-009		556209-010					
	Field Id:	ESW-2 1'		SSW-1 1'		NSW-2 1'		WSW-2 1'					
	Depth:	1- ft		1- ft		1- ft		1- ft					
	Matrix:	SOIL		SOIL		SOIL		SOIL					
	Sampled:	Jun-20-17 10:10		Jun-20-17 10:15		Jun-20-17 11:00		Jun-20-17 11:15					
BTEX by EPA 8021B	***Extracted:***	Jun-27-17 15:00		Jun-27-17 15:00		Jun-27-17 15:00		Jun-27-17 15:00					
	Analyzed:	Jun-27-17 23:30		Jun-27-17 23:46		Jun-28-17 00:02		Jun-28-17 00:18					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202	<0.00201	0.00201				
Toluene		<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202	<0.00201	0.00201				
Ethylbenzene		<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202	<0.00201	0.00201				
m,p-Xylenes		<0.00398	0.00398	<0.00399	0.00399	<0.00403	0.00403	<0.00402	0.00402				
o-Xylene		<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202	<0.00201	0.00201				
Total Xylenes		<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202	<0.00201	0.00201				
Total BTEX		<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202	<0.00201	0.00201				
Chloride by EPA 300	***Extracted:***	Jun-27-17 13:50		Jun-27-17 13:50		Jun-27-17 13:50		Jun-27-17 13:50					
	Analyzed:	Jun-28-17 00:03		Jun-28-17 00:11		Jun-28-17 00:18		Jun-28-17 00:26					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		64.6	4.97	146	4.97	9.95	4.93	16.7	4.96				
TPH by SW8015 Mod	***Extracted:***	Jun-26-17 07:00		Jun-26-17 07:00		Jun-26-17 07:00		Jun-26-17 07:00					
	Analyzed:	Jun-26-17 14:16		Jun-26-17 14:36		Jun-26-17 14:56		Jun-26-17 15:16					
	Units/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				
Diesel Range Organics		<15.0	15.0	<15.0	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	<15.0	15.0				
Total TPH		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0				

Kelsey Brooks
Project Manager

Analytical Report 556209

for

TRC Solutions, Inc

Project Manager: Nikki Green

A-14 Compressor Station Sump

28-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)

28-JUN-17

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

Reference: XENCO Report No(s): **556209**
A-14 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) 556209. 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. 556209 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 556209

TRC Solutions, Inc, Midland, TX

A-14 Compressor Station Sump

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH-3 2'	S	06-19-17 16:00	2 ft	556209-001
ESW-1 1'	S	06-19-17 16:15	1 ft	556209-002
WSW-1 1'	S	06-19-17 16:17	1 ft	556209-003
BH-5 6"	S	06-19-17 16:30	6 In	556209-004
BH-4 2'	S	06-20-17 10:00	2 ft	556209-005
NSW-1 1'	S	06-20-17 10:05	1 ft	556209-006
ESW-2 1'	S	06-20-17 10:10	1 ft	556209-007
SSW-1 1'	S	06-20-17 10:15	1 ft	556209-008
NSW-2 1'	S	06-20-17 11:00	1 ft	556209-009
WSW-2 1'	S	06-20-17 11:15	1 ft	556209-010

Client Name: TRC Solutions, Inc

Project Name: A-14 Compressor Station Sump

Project ID:
Work Order Number(s): *556209*

Report Date: *28-JUN-17*
Date Received: *06/23/2017*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3020931 BTEX by EPA 8021B

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

Lab Sample ID 556209-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Ethylbenzene recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 556209-001, -002, -003, -004, -005, -006, -007, -008, -009, -010.

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

Certificate of Analytical Results 556209

TRC Solutions, Inc, Midland, TX

A-14 Compressor Station Sump

Sample Id:	**BH-3 2'**	Matrix:	Soil	Date Received:	06.23.17 15.33
Lab Sample Id:	556209-001	Date Collected:	06.19.17 16.00	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MGO			% Moisture:	
Analyst:	MGO	Date Prep:	06.27.17 13.50	Basis:	Wet Weight
Seq Number:	3020947				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**48.9**	4.96	mg/kg	06.27.17 22.47		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.26.17 07.00	Basis:	Wet Weight
Seq Number:	3021003				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<15.0	15.0	mg/kg	06.26.17 11.36	U	1
Diesel Range Organics	C10C28DRO	**53.3**	15.0	mg/kg	06.26.17 11.36		1
Oil Range Hydrocarbons	PHCG2835	**64.7**	15.0	mg/kg	06.26.17 11.36		1
Total TPH	PHC635	**118**	15.0	mg/kg	06.26.17 11.36		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	06.26.17 11.36	
o-Terphenyl	84-15-1	109	%	70-135	06.26.17 11.36	

Certificate of Analytical Results 556209

TRC Solutions, Inc, Midland, TX

A-14 Compressor Station Sump

Sample Id:	**BH-3 2'**	Matrix:	Soil	Date Received:	06.23.17 15.33
Lab Sample Id:	556209-001	Date Collected:	06.19.17 16.00	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	06.27.17 15.00	Basis:	Wet Weight
Seq Number:	3020931				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	06.27.17 21.53	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	06.27.17 21.53	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	06.27.17 21.53	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	06.27.17 21.53	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	06.27.17 21.53	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	06.27.17 21.53	U	1
Total BTEX		<0.00201	0.00201	mg/kg	06.27.17 21.53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	80-120	06.27.17 21.53	
4-Bromofluorobenzene	460-00-4	115	%	80-120	06.27.17 21.53	

Certificate of Analytical Results 556209

TRC Solutions, Inc, Midland, TX

A-14 Compressor Station Sump

Sample Id:	**ESW-1 1'**	Matrix:	Soil	Date Received:	06.23.17 15.33
Lab Sample Id:	556209-002	Date Collected:	06.19.17 16.15	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MGO			% Moisture:	
Analyst:	MGO	Date Prep:	06.27.17 13.50	Basis:	Wet Weight
Seq Number:	3020947				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**36.3**	4.99	mg/kg	06.27.17 22.55		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.26.17 07.00	Basis:	Wet Weight
Seq Number:	3021003				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<15.0	15.0	mg/kg	06.26.17 12.36	U	1
Diesel Range Organics	C10C28DRO	**25.8**	15.0	mg/kg	06.26.17 12.36		1
Oil Range Hydrocarbons	PHCG2835	<15.0	15.0	mg/kg	06.26.17 12.36	U	1
Total TPH	PHC635	**25.8**	15.0	mg/kg	06.26.17 12.36		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	06.26.17 12.36	
o-Terphenyl	84-15-1	106	%	70-135	06.26.17 12.36	

Certificate of Analytical Results 556209

TRC Solutions, Inc, Midland, TX

A-14 Compressor Station Sump

Sample Id:	**ESW-1 1'**	Matrix:	Soil	Date Received:	06.23.17 15.33
Lab Sample Id:	556209-002	Date Collected:	06.19.17 16.15	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	06.27.17 15.00	Basis:	Wet Weight
Seq Number:	3020931				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.27.17 22.09	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.27.17 22.09	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.27.17 22.09	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	06.27.17 22.09	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.27.17 22.09	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.27.17 22.09	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.27.17 22.09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	94	%	80-120	06.27.17 22.09	
1,4-Difluorobenzene	540-36-3	87	%	80-120	06.27.17 22.09	

Certificate of Analytical Results 556209

TRC Solutions, Inc, Midland, TX

A-14 Compressor Station Sump

Sample Id:	**WSW-1 1'**	Matrix:	Soil	Date Received:	06.23.17 15.33
Lab Sample Id:	556209-003	Date Collected:	06.19.17 16.17	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MGO			% Moisture:	
Analyst:	MGO	Date Prep:	06.27.17 13.50	Basis:	Wet Weight
Seq Number:	3020947				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**165**	4.91	mg/kg	06.27.17 23.17		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.26.17 07.00	Basis:	Wet Weight
Seq Number:	3021003				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<15.0	15.0	mg/kg	06.26.17 12.56	U	1
Diesel Range Organics	C10C28DRO	**255**	15.0	mg/kg	06.26.17 12.56		1
Oil Range Hydrocarbons	PHCG2835	**66.2**	15.0	mg/kg	06.26.17 12.56		1
Total TPH	PHC635	**321**	15.0	mg/kg	06.26.17 12.56		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-135	06.26.17 12.56	
o-Terphenyl	84-15-1	110	%	70-135	06.26.17 12.56	

Certificate of Analytical Results 556209

TRC Solutions, Inc, Midland, TX

A-14 Compressor Station Sump

Sample Id:	**WSW-1 1'**	Matrix:	Soil	Date Received:	06.23.17 15.33
Lab Sample Id:	556209-003	Date Collected:	06.19.17 16.17	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	06.27.17 15.00	Basis:	Wet Weight
Seq Number:	3020931				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.27.17 22.25	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.27.17 22.25	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.27.17 22.25	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	06.27.17 22.25	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.27.17 22.25	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.27.17 22.25	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.27.17 22.25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	108	%	80-120	06.27.17 22.25	
1,4-Difluorobenzene	540-36-3	98	%	80-120	06.27.17 22.25	

TRC Solutions, Inc, Midland, TX

A-14 Compressor Station Sump

Sample Id:	**BH-5 6"**	Matrix:	Soil	Date Received:	06.23.17 15.33
Lab Sample Id:	556209-004	Date Collected:	06.19.17 16.30	Sample Depth:	6 In

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MGO			% Moisture:	
Analyst:	MGO	Date Prep:	06.27.17 13.50	Basis:	Wet Weight
Seq Number:	3020947				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**20.0**	4.97	mg/kg	06.27.17 23.25		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.26.17 07.00	Basis:	Wet Weight
Seq Number:	3021003				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<14.9	14.9	mg/kg	06.26.17 13.16	U	1
Diesel Range Organics	C10C28DRO	<14.9	14.9	mg/kg	06.26.17 13.16	U	1
Oil Range Hydrocarbons	PHCG2835	<14.9	14.9	mg/kg	06.26.17 13.16	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	06.26.17 13.16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	06.26.17 13.16	
o-Terphenyl	84-15-1	104	%	70-135	06.26.17 13.16	

Certificate of Analytical Results 556209

TRC Solutions, Inc, Midland, TX

A-14 Compressor Station Sump

Sample Id:	**BH-5 6"**	Matrix:	Soil	Date Received:	06.23.17 15.33
Lab Sample Id:	556209-004	Date Collected:	06.19.17 16.30	Sample Depth:	6 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	06.27.17 15.00	Basis:	Wet Weight
Seq Number:	3020931				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	06.27.17 22.42	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	06.27.17 22.42	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	06.27.17 22.42	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	06.27.17 22.42	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	06.27.17 22.42	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	06.27.17 22.42	U	1
Total BTEX		<0.00201	0.00201	mg/kg	06.27.17 22.42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	80-120	06.27.17 22.42	
4-Bromofluorobenzene	460-00-4	98	%	80-120	06.27.17 22.42	

Certificate of Analytical Results 556209

TRC Solutions, Inc, Midland, TX

A-14 Compressor Station Sump

Sample Id:	**BH-4 2'**	Matrix:	Soil	Date Received:	06.23.17 15.33
Lab Sample Id:	556209-005	Date Collected:	06.20.17 10.00	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MGO			% Moisture:	
Analyst:	MGO	Date Prep:	06.27.17 13.50	Basis:	Wet Weight
Seq Number:	3020947				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**65.3**	4.98	mg/kg	06.27.17 23.48		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.26.17 07.00	Basis:	Wet Weight
Seq Number:	3021003				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<15.0	15.0	mg/kg	06.26.17 13.36	U	1
Diesel Range Organics	C10C28DRO	<15.0	15.0	mg/kg	06.26.17 13.36	U	1
Oil Range Hydrocarbons	PHCG2835	<15.0	15.0	mg/kg	06.26.17 13.36	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.26.17 13.36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	06.26.17 13.36	
o-Terphenyl	84-15-1	107	%	70-135	06.26.17 13.36	

Certificate of Analytical Results 556209

TRC Solutions, Inc, Midland, TX

A-14 Compressor Station Sump

Sample Id:	**BH-4 2'**	Matrix:	Soil	Date Received:	06.23.17 15.33
Lab Sample Id:	556209-005	Date Collected:	06.20.17 10.00	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	06.27.17 15.00	Basis:	Wet Weight
Seq Number:	3020931				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.27.17 22.58	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.27.17 22.58	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.27.17 22.58	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.27.17 22.58	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.27.17 22.58	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.27.17 22.58	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.27.17 22.58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	114	%	80-120	06.27.17 22.58	
1,4-Difluorobenzene	540-36-3	96	%	80-120	06.27.17 22.58	

Certificate of Analytical Results 556209

TRC Solutions, Inc, Midland, TX

A-14 Compressor Station Sump

Sample Id:	**NSW-1 1'**	Matrix:	Soil	Date Received:	06.23.17 15.33
Lab Sample Id:	556209-006	Date Collected:	06.20.17 10.05	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MGO			% Moisture:	
Analyst:	MGO	Date Prep:	06.27.17 13.50	Basis:	Wet Weight
Seq Number:	3020947				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**39.7**	4.98	mg/kg	06.27.17 23.55		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.26.17 07.00	Basis:	Wet Weight
Seq Number:	3021003				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<15.0	15.0	mg/kg	06.26.17 13.56	U	1
Diesel Range Organics	C10C28DRO	<15.0	15.0	mg/kg	06.26.17 13.56	U	1
Oil Range Hydrocarbons	PHCG2835	<15.0	15.0	mg/kg	06.26.17 13.56	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.26.17 13.56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	06.26.17 13.56	
o-Terphenyl	84-15-1	105	%	70-135	06.26.17 13.56	

Certificate of Analytical Results 556209

TRC Solutions, Inc, Midland, TX

A-14 Compressor Station Sump

Sample Id:	**NSW-1 1'**	Matrix:	Soil	Date Received:	06.23.17 15.33
Lab Sample Id:	556209-006	Date Collected:	06.20.17 10.05	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	06.27.17 15.00	Basis:	Wet Weight
Seq Number:	3020931				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.27.17 23.14	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.27.17 23.14	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.27.17 23.14	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.27.17 23.14	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.27.17 23.14	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.27.17 23.14	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.27.17 23.14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	92	%	80-120	06.27.17 23.14	
4-Bromofluorobenzene	460-00-4	115	%	80-120	06.27.17 23.14	

Certificate of Analytical Results 556209

TRC Solutions, Inc, Midland, TX

A-14 Compressor Station Sump

Sample Id:	**ESW-2 1'**	Matrix:	Soil	Date Received:	06.23.17 15.33
Lab Sample Id:	556209-007	Date Collected:	06.20.17 10.10	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MGO			% Moisture:	
Analyst:	MGO	Date Prep:	06.27.17 13.50	Basis:	Wet Weight
Seq Number:	3020947				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**64.6**	4.97	mg/kg	06.28.17 00.03		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.26.17 07.00	Basis:	Wet Weight
Seq Number:	3021003				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<15.0	15.0	mg/kg	06.26.17 14.16	U	1
Diesel Range Organics	C10C28DRO	<15.0	15.0	mg/kg	06.26.17 14.16	U	1
Oil Range Hydrocarbons	PHCG2835	<15.0	15.0	mg/kg	06.26.17 14.16	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.26.17 14.16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	06.26.17 14.16	
o-Terphenyl	84-15-1	106	%	70-135	06.26.17 14.16	

Certificate of Analytical Results 556209

TRC Solutions, Inc, Midland, TX

A-14 Compressor Station Sump

Sample Id:	**ESW-2 1'**	Matrix:	Soil	Date Received:	06.23.17 15.33
Lab Sample Id:	556209-007	Date Collected:	06.20.17 10.10	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	06.27.17 15.00	Basis:	Wet Weight
Seq Number:	3020931				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.27.17 23.30	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.27.17 23.30	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.27.17 23.30	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.27.17 23.30	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.27.17 23.30	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.27.17 23.30	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.27.17 23.30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	113	%	80-120	06.27.17 23.30	
1,4-Difluorobenzene	540-36-3	108	%	80-120	06.27.17 23.30	

Certificate of Analytical Results 556209

TRC Solutions, Inc, Midland, TX

A-14 Compressor Station Sump

Sample Id:	**SSW-1 1'**	Matrix:	Soil	Date Received:	06.23.17 15.33
Lab Sample Id:	556209-008	Date Collected:	06.20.17 10.15	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MGO			% Moisture:	
Analyst:	MGO	Date Prep:	06.27.17 13.50	Basis:	Wet Weight
Seq Number:	3020947				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**146**	4.97	mg/kg	06.28.17 00.11		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.26.17 07.00	Basis:	Wet Weight
Seq Number:	3021003				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<15.0	15.0	mg/kg	06.26.17 14.36	U	1
Diesel Range Organics	C10C28DRO	<15.0	15.0	mg/kg	06.26.17 14.36	U	1
Oil Range Hydrocarbons	PHCG2835	<15.0	15.0	mg/kg	06.26.17 14.36	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.26.17 14.36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	06.26.17 14.36	
o-Terphenyl	84-15-1	106	%	70-135	06.26.17 14.36	

Certificate of Analytical Results 556209

TRC Solutions, Inc, Midland, TX

A-14 Compressor Station Sump

Sample Id:	**SSW-1 1'**	Matrix:	Soil	Date Received:	06.23.17 15.33
Lab Sample Id:	556209-008	Date Collected:	06.20.17 10.15	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	06.27.17 15.00	Basis:	Wet Weight
Seq Number:	3020931				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.27.17 23.46	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.27.17 23.46	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.27.17 23.46	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	06.27.17 23.46	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.27.17 23.46	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.27.17 23.46	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.27.17 23.46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	89	%	80-120	06.27.17 23.46	
1,4-Difluorobenzene	540-36-3	100	%	80-120	06.27.17 23.46	

Certificate of Analytical Results 556209

TRC Solutions, Inc, Midland, TX

A-14 Compressor Station Sump

Sample Id:	**NSW-2 1'**	Matrix:	Soil	Date Received:	06.23.17 15.33
Lab Sample Id:	556209-009	Date Collected:	06.20.17 11.00	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MGO			% Moisture:	
Analyst:	MGO	Date Prep:	06.27.17 13.50	Basis:	Wet Weight
Seq Number:	3020947				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**9.95**	4.93	mg/kg	06.28.17 00.18		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.26.17 07.00	Basis:	Wet Weight
Seq Number:	3021003				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<15.0	15.0	mg/kg	06.26.17 14.56	U	1
Diesel Range Organics	C10C28DRO	<15.0	15.0	mg/kg	06.26.17 14.56	U	1
Oil Range Hydrocarbons	PHCG2835	<15.0	15.0	mg/kg	06.26.17 14.56	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.26.17 14.56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	06.26.17 14.56	
o-Terphenyl	84-15-1	103	%	70-135	06.26.17 14.56	

Certificate of Analytical Results 556209

TRC Solutions, Inc, Midland, TX

A-14 Compressor Station Sump

Sample Id:	**NSW-2 1'**	Matrix:	Soil	Date Received:	06.23.17 15.33
Lab Sample Id:	556209-009	Date Collected:	06.20.17 11.00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	06.27.17 15.00	Basis:	Wet Weight
Seq Number:	3020931				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	06.28.17 00.02	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	06.28.17 00.02	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	06.28.17 00.02	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	06.28.17 00.02	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	06.28.17 00.02	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	06.28.17 00.02	U	1
Total BTEX		<0.00202	0.00202	mg/kg	06.28.17 00.02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	107	%	80-120	06.28.17 00.02	
1,4-Difluorobenzene	540-36-3	107	%	80-120	06.28.17 00.02	

Certificate of Analytical Results 556209

TRC Solutions, Inc, Midland, TX

A-14 Compressor Station Sump

Sample Id:	**WSW-2 1'**	Matrix:	Soil	Date Received:	06.23.17 15.33
Lab Sample Id:	556209-010	Date Collected:	06.20.17 11.15	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MGO			% Moisture:	
Analyst:	MGO	Date Prep:	06.27.17 13.50	Basis:	Wet Weight
Seq Number:	3020947				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**16.7**	4.96	mg/kg	06.28.17 00.26		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.26.17 07.00	Basis:	Wet Weight
Seq Number:	3021003				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<15.0	15.0	mg/kg	06.26.17 15.16	U	1
Diesel Range Organics	C10C28DRO	<15.0	15.0	mg/kg	06.26.17 15.16	U	1
Oil Range Hydrocarbons	PHCG2835	<15.0	15.0	mg/kg	06.26.17 15.16	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.26.17 15.16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	06.26.17 15.16	
o-Terphenyl	84-15-1	105	%	70-135	06.26.17 15.16	

Certificate of Analytical Results 556209

TRC Solutions, Inc, Midland, TX

A-14 Compressor Station Sump

Sample Id:	**WSW-2 1'**	Matrix:	Soil	Date Received:	06.23.17 15.33
Lab Sample Id:	556209-010	Date Collected:	06.20.17 11.15	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	06.27.17 15.00	Basis:	Wet Weight
Seq Number:	3020931				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	06.28.17 00.18	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	06.28.17 00.18	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	06.28.17 00.18	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	06.28.17 00.18	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	06.28.17 00.18	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	06.28.17 00.18	U	1
Total BTEX		<0.00201	0.00201	mg/kg	06.28.17 00.18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	92	%	80-120	06.28.17 00.18	
4-Bromofluorobenzene	460-00-4	103	%	80-120	06.28.17 00.18	

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 556209

TRC Solutions, Inc

A-14 Compressor Station Sump

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3020947 Matrix: Solid Date Prep: 06.27.17
MB Sample Id: 726861-1-BLK LCS Sample Id: 726861-1-BKS LCSD Sample Id: 726861-1-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	240	96	90-110	4	20	mg/kg	06.27.17 20:53	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3020947 Matrix: Soil Date Prep: 06.27.17
Parent Sample Id: 555795-008 MS Sample Id: 555795-008 S MSD Sample Id: 555795-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	9.20	246	253	99	254	100	90-110	0	20	mg/kg	06.27.17 21:16	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3020947 Matrix: Soil Date Prep: 06.27.17
Parent Sample Id: 556209-002 MS Sample Id: 556209-002 S MSD Sample Id: 556209-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	36.3	250	289	101	290	101	90-110	0	20	mg/kg	06.27.17 23:02	

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3021003 Matrix: Solid Date Prep: 06.26.17
MB Sample Id: 726785-1-BLK LCS Sample Id: 726785-1-BKS LCSD Sample Id: 726785-1-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	1030	103	70-135	0	35	mg/kg	06.26.17 10:55	
Diesel Range Organics	<15.0	1000	1050	105	1040	104	70-135	1	35	mg/kg	06.26.17 10:55	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	107		101		102		70-135	%	06.26.17 10:55
o-Terphenyl	115		100		99		70-135	%	06.26.17 10:55

QC Summary 556209

TRC Solutions, Inc

A-14 Compressor Station Sump

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3021003 Matrix: Soil Date Prep: 06.26.17
Parent Sample Id: 556209-001 MS Sample Id: 556209-001 S MSD Sample Id: 556209-001 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	1030	103	1020	102	70-135	1	35	mg/kg	06.26.17 11:56	
Diesel Range Organics	53.3	998	1050	100	1040	99	70-135	1	35	mg/kg	06.26.17 11:56	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	107		101		70-135	%	06.26.17 11:56
o-Terphenyl	99		96		70-135	%	06.26.17 11:56

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B
Seq Number: 3020931 Matrix: Solid Date Prep: 06.27.17
MB Sample Id: 726847-1-BLK LCS Sample Id: 726847-1-BKS LCSD Sample Id: 726847-1-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	0.103	102	0.103	103	70-130	0	35	mg/kg	06.27.17 20:16	
Toluene	<0.00202	0.101	0.0908	90	0.0903	90	70-130	1	35	mg/kg	06.27.17 20:16	
Ethylbenzene	<0.00202	0.101	0.0968	96	0.0998	100	71-129	3	35	mg/kg	06.27.17 20:16	
m,p-Xylenes	<0.00404	0.202	0.176	87	0.177	88	70-135	1	35	mg/kg	06.27.17 20:16	
o-Xylene	<0.00202	0.101	0.0917	91	0.0933	93	71-133	2	35	mg/kg	06.27.17 20:16	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	97		92		101		80-120	%	06.27.17 20:16
4-Bromofluorobenzene	99		107		100		80-120	%	06.27.17 20:16

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B
Seq Number: 3020931 Matrix: Soil Date Prep: 06.27.17
Parent Sample Id: 556209-001 MS Sample Id: 556209-001 S MSD Sample Id: 556209-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0814	81	0.0750	74	70-130	8	35	mg/kg	06.27.17 20:48	
Toluene	<0.00200	0.100	0.0665	67	0.0653	65	70-130	2	35	mg/kg	06.27.17 20:48	X
Ethylbenzene	<0.00200	0.100	0.0708	71	0.0610	60	71-129	15	35	mg/kg	06.27.17 20:48	X
m,p-Xylenes	<0.00400	0.200	0.117	59	0.105	52	70-135	11	35	mg/kg	06.27.17 20:48	X
o-Xylene	<0.00200	0.100	0.0656	66	0.0628	62	71-133	4	35	mg/kg	06.27.17 20:48	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	90		116		80-120	%	06.27.17 20:48
4-Bromofluorobenzene	91		117		80-120	%	06.27.17 20:48

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 #: 556209

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	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-3 2'			6/19/2017	1600		1	x								Soil	x								x			x				x
	ESW-1 1'			6/19/2017	1615		1	x								Soil	x								x			x				x
	WSW-1 1'			6/19/2017	1617		1	x								Soil	x								x			x				x
	BH-5 6"			6/19/2017	1630		1	x								Soil	x								x			x				x
	BH-4 2'			6/20/2017	1000		1	x								Soil	x								x			x				x
	NSW-1 1'			6/20/2017	1005		1	x								Soil	x								x			x				x
	ESW-2 1'			6/20/2017	1010		1	x								Soil	x								x			x				x
	SSW-1 1'			6/20/2017	1015		1	x								Soil	x								x			x				x
	NSW-2 1'			6/20/2017	1100		1	x								Soil	x								x			x				x
	WSW-2 1'			6/20/2017	1115		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	6/23/17	1533		6/23/17	1533
Relinquished by:	Date	Time	Rece	Date	Time
Relinquished by:	Date	Time	Rece	Date	Time

Temp: 0.6 IR ID:R-8
CF:(0-6: -0.2°C)
(6-23: +0.2°C)
Corrected Temp: 2.4

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: 06/23/2017 03:33:00 PM

Work Order #: 556209

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)?	2.4
#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: 06/23/2017
Jessica Kramer

Checklist reviewed by: Kelsey Brooks Date: 06/26/2017
Kelsey Brooks

Analytical Report 553892

for

TRC Solutions, Inc

Project Manager: Nikki Green

A14 Compressor Station Sump

TRC#273818

30-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)

30-MAY-17

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

Reference: XENCO Report No(s): **553892**
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) 553892. 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. 553892 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,

Brandi Ritcherson
Project Manager

Sample Cross Reference 553892

TRC Solutions, Inc, Midland, TX

A14 Compressor Station Sump

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Hydrovac Solids	S	05-23-17 11:30		553892-001

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3018244 BTEX by EPA 8021B

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

Certificate of Analytical Results 553892

TRC Solutions, Inc, Midland, TX

A14 Compressor Station Sump

Sample Id:	**Hydrovac Solids**	Matrix:	Soil	Date Received:	05.24.17 16.10
Lab Sample Id:	553892-001	Date Collected:	05.23.17 11.30		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MGO			% Moisture:	
Analyst:	MGO	Date Prep:	05.26.17 08.00	Basis:	Wet Weight
Seq Number:	3018325				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**52.5**	4.93	mg/kg	05.26.17 09.24		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	05.26.17 17.00	Basis:	Wet Weight
Seq Number:	3018367				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<15.0	15.0	mg/kg	05.27.17 13.45	U	1
C10-C28 Diesel Range Organics	C10C28DRO	**187**	15.0	mg/kg	05.27.17 13.45		1
C28-C35 Oil Range Hydrocarbons	PHCG2835	**265**	15.0	mg/kg	05.27.17 13.45		1
Total TPH	PHC635	**452**	15.0	mg/kg	05.27.17 13.45		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-135	05.27.17 13.45	
o-Terphenyl	84-15-1	110	%	70-135	05.27.17 13.45	

Certificate of Analytical Results 553892

TRC Solutions, Inc, Midland, TX

A14 Compressor Station Sump

Sample Id:	**Hydrovac Solids**	Matrix:	Soil	Date Received:	05.24.17 16.10
Lab Sample Id:	553892-001	Date Collected:	05.23.17 11.30		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	05.25.17 08.00	Basis:	Wet Weight
Seq Number:	3018244				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.25.17 10.02	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.25.17 10.02	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.25.17 10.02	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.25.17 10.02	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.25.17 10.02	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.25.17 10.02	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.25.17 10.02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	111	%	80-120	05.25.17 10.02	
1,4-Difluorobenzene	540-36-3	86	%	80-120	05.25.17 10.02	

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 553892

TRC Solutions, Inc

A14 Compressor Station Sump

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3018325 Matrix: Solid Date Prep: 05.26.17
MB Sample Id: 725214-1-BLK LCS Sample Id: 725214-1-BKS LCSD Sample Id: 725214-1-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	264	106	263	105	90-110	0	20	mg/kg	05.26.17 09:09	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3018325 Matrix: Soil Date Prep: 05.26.17
Parent Sample Id: 553892-001 MS Sample Id: 553892-001 S MSD Sample Id: 553892-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	52.5	247	301	101	302	101	90-110	0	20	mg/kg	05.26.17 09:32	

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3018367 Matrix: Solid Date Prep: 05.26.17
MB Sample Id: 725298-1-BLK LCS Sample Id: 725298-1-BKS LCSD Sample Id: 725298-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
C6-C10 Gasoline Range Hydrocarbons	<15.0	1000	1010	101	1110	111	70-135	9	35	mg/kg	05.27.17 13:04	
C10-C28 Diesel Range Organics	<15.0	1000	1030	103	1070	107	70-135	4	35	mg/kg	05.27.17 13:04	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	118		105		120		70-135	%	05.27.17 13:04
o-Terphenyl	117		104		117		70-135	%	05.27.17 13:04

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3018367 Matrix: Soil Date Prep: 05.26.17
Parent Sample Id: 553892-001 MS Sample Id: 553892-001 S MSD Sample Id: 553892-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
C6-C10 Gasoline Range Hydrocarbons	<15.0	999	981	98	1030	103	70-135	5	35	mg/kg	05.27.17 14:06	
C10-C28 Diesel Range Organics	187	999	1130	94	1150	96	70-135	2	35	mg/kg	05.27.17 14:06	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	100		118		70-135	%	05.27.17 14:06
o-Terphenyl	76		108		70-135	%	05.27.17 14:06

QC Summary 553892

TRC Solutions, Inc

A14 Compressor Station Sump

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

Seq Number: 3018244 Matrix: Solid Date Prep: 05.25.17

MB Sample Id: 725225-1-BLK LCS Sample Id: 725225-1-BKS LCSD Sample Id: 725225-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.100	0.0826	83	0.0767	76	70-130	7	35	mg/kg	05.25.17 07:20	
Toluene	<0.00201	0.100	0.0823	82	0.0810	80	70-130	2	35	mg/kg	05.25.17 07:20	
Ethylbenzene	<0.00201	0.100	0.0915	92	0.0810	80	71-129	12	35	mg/kg	05.25.17 07:20	
m,p-Xylenes	<0.00402	0.201	0.177	88	0.165	82	70-135	7	35	mg/kg	05.25.17 07:20	
o-Xylene	<0.00201	0.100	0.0865	87	0.0803	80	71-133	7	35	mg/kg	05.25.17 07:20	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	93		115		101		80-120	%	05.25.17 07:20
4-Bromofluorobenzene	92		118		101		80-120	%	05.25.17 07:20

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

Seq Number: 3018244 Matrix: Soil Date Prep: 05.25.17

Parent Sample Id: 553764-001 MS Sample Id: 553764-001 S MSD Sample Id: 553764-001 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	0.0527	53	0.0647	65	70-130	20	35	mg/kg	05.25.17 07:52	X
Toluene	<0.00201	0.100	0.0553	55	0.0688	69	70-130	22	35	mg/kg	05.25.17 07:52	X
Ethylbenzene	<0.00201	0.100	0.0562	56	0.0640	64	71-129	13	35	mg/kg	05.25.17 07:52	X
m,p-Xylenes	<0.00402	0.201	0.102	51	0.125	63	70-135	20	35	mg/kg	05.25.17 07:52	X
o-Xylene	<0.00201	0.100	0.0543	54	0.0658	66	71-133	19	35	mg/kg	05.25.17 07:52	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		100		80-120	%	05.25.17 07:52
4-Bromofluorobenzene	117		118		80-120	%	05.25.17 07:52

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 #: 553892

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
	Hydrovac solids			5/23/2017	1130		1	x								Soil	x							x			x				x

Temp: 1.8 IR ID:R-8
CF:(0-6: -0.2°C)
(6-23: +0.2°C)
Corrected Temp: 1.6

Special Instructions:

Bill to Rose Slade at Energy Transfer.

Relinquished by:	Date	Time	Received by:	Date	Time
Nikki Green	5/24/17	1530	Manga	5/24/17	1610
Chance Bontright	5/24/17	1610			
			Received by ELOT:		

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: 05/24/2017 04:10:00 PM

Work Order #: 553892

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

Temperature Measuring device used : r8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	1.6
#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**
#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: 05/24/2017
Marithza Anaya

Checklist reviewed by: Holly Taylor Date: 05/26/2017
Holly Taylor

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 (Below Ground Sump)	Facility Type: Gathering Pipeline

Surface Owner: (BLM) Bureau of Land Management	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: <5bbls	Volume Recovered: O
Source of Release: Below Ground Sump	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 made 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.	

RECEIVED
By Olivia Yu at 12:56 pm, Mar 09, 2017

If a Watercourse was Impacted, Describe Fully.* N/A

Describe Cause of Problem and Remedial Action Taken.* On 2/23/17 ETC personnel discovered a crude oil & produced water release from a below ground sump located inside the ETC A-14 Compressor Station. The cause of the release was due to an over-run of the below ground sump. During the initial response activities the, ETC personnel had a vacuum truck come and remove all the remaining liquids from within the tank and the double wall of the tank.

Describe Area Affected and Cleanup Action Taken.* The area affected was estimated at an area impacted of approximately 1,700 square feet. The fluid ran outside the tank moving toward the southwest of the facility outside the fence line. ETC representative and an environmental consultant representing ETC conducted a site assessment of the release and will submit a work-plan to the NMOCD Hobbs District Office and the Bureau Of Land Management.

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 Approved by Environmental Specialist:	
Printed Name: Rose L. Slade		
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-4635 fOY1706953656 nOY1706954734

pOY1706955221

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-_4635___ 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
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