

Trinity Oilfield Services & Rentals, LLC

Environmental Site Summary & Spill Remediation Plan



Company: OXY USA, Inc. Address: P.O. Box 4294, Houston, TX 77210 Telephone #: (575) 390-2828

Site Name: Red Tank 24 Fed 1 & 2 CTB NMOCD Reference#: 1RP-4762

Surface Owner: US BLM Mineral Owner: US BLM

Unit Letter: "N" (SE/SW) Section: 24 Township: 22S Range: 32E County: Lea GPS Coordinates: 32.372240 N -103.630760 W

Depth to Ground Water: 435' - 440' Distance to Surface Water Body: ☐ <200' ☐ 200' - 1,000' ☒ >1,000'

Wellhead Protection Area: <1,000' from Water Source or <200' from Domestic Water Source? ☐ Y ☒ N

NMOCD Ranking Score: 0 Soil Remediation Levels (mg/kg): Benzene: 10 BTEX: 50 TPH: ☐ 100 ☐ 1,000 ☒ 5,000 Chloride: ☐ 250 ☐ 500 ☒ 1,000

Date/Time of Release: 7/16/2017 Type of Release: Produced Water & Crude Oil Approximate Volume of Release: See Below

Background Information:

On July 16, 2017, OXY USA, Inc. (OXY), discovered a release at the Red Tank 24 Fed 1 & 2 Central Tank Battery (CTB). A water dump valve on a heater malfunctioned, causing a storage tank to overflow, and resulting in the release of approximately 4 barrels (bbls) of crude oil and 6 bbls of produced water. The valve was repaired during initial response activities. The release was confined to the earthen containment area surrounding the tank battery and affected an area measuring approximately 20' x 60'.

The release was immediately reported to the New Mexico Oil Conservation Division's (NMOCD) Hobbs District Office. The NMOCD "Release Notification & Corrective Action" (Form C-141) is provided as Appendix A. General photographs of the release site are provided in Attachment B. A "Site Location Map" is provided as Figure 1.

Summary of Field Activities:

On July 20, 2017, two (2) hand-augered boreholes (SP-1 and SP-2) were advanced at the site to investigate the vertical extent of impacted soil. The auger holes were advanced to total depths of approximately 1.5 feet below ground surface (bgs). Representative soil samples were submitted to Xenco Laboratories in Midland, Texas, for analysis of total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene, and total xylenes (BTEX), and/or chloride concentrations using Environmental Protection Agency (EPA) Methods SW 846-8021b, SW 846-8015M, and 300.1 respectively. Laboratory analytical results and field screens indicated vertical delineation of the release had been achieved.

Locations of the auger holes are depicted in Figure 2, "Sample Location Map". Laboratory analytical results are summarized in Table 1, and analytical reports are provided in Appendix C.

Trinity Oilfield Services & Rentals, LLC

Environmental Site Summary & Spill Remediation Plan



Proposed Activities:

- Excavation of impacted soil will commence upon NMOCD approval of this Spill Remediation Plan. Based on laboratory analytical results, the excavation will be advanced vertically to a maximum depth of approximately 1 foot bgs. To preserve the structural integrity of the on-site storage tanks, excavation of impacted soil at the bases of the on-site storage tanks may be limited to a depth of approximately 6 inches bgs.
- The excavation will be advanced horizontally until field test readings and/or visual/olfactory senses suggest contaminants of concern are below the "Recommended Remediation Action Levels" (RRALs) established for the site by the NMOCD (or to the extent practicable). In some affected areas, excavation may be limited by the presence of the on-site storage tanks and associated pipes, appurtenances, and/or electrical lines.
- Excavated soil will be stockpiled on-site on 6-mil plastic, pending transfer to an NMOCD-permitted facility for disposal.
- Following remediation activities, the excavation will be backfilled with locally acquired, non-impacted material, compacted, and contoured to fit the surrounding topography.
- Upon completion of the aforementioned corrective actions, a "Remediation Summary & Site Closure Request" will be submitted to the NMOCD, documenting remediation activities and results of any required confirmation soil samples.

Proposed Soil Boring/Monitor Well Locations:

N/A	N	N/A	W
	N		W
	N		W
	N		W
	N		W

Name/Description:

N/A

Enclosures:

Figure 1: Site Location Map

Figure 2: Sample Location Map

Table 1: Concentrations of Benzene, BTEX, TPH & Chloride in Soil

Appendix A: Release Notification & Corrective Action (Form C-141)

Appendix B: Photographs

Appendix C: Laboratory Analytical Results

 8/15/2017
Ben J. Arguijo
Project Manager

APPROVED

By Olivia Yu at 9:47 am, Oct 02, 2017

NMOCD approves of the delineation and proposed remediation for 1RP-4762 with these conditions:

1. Laboratory analyses (BTEX, TPH extended, and chlorides) of bottom and sidewall confirmation samples. Sample locations must be no greater than 50 ft. apart.
2. Scaled map with confirmation sample locations marked and excavated areas outlined.

Figures

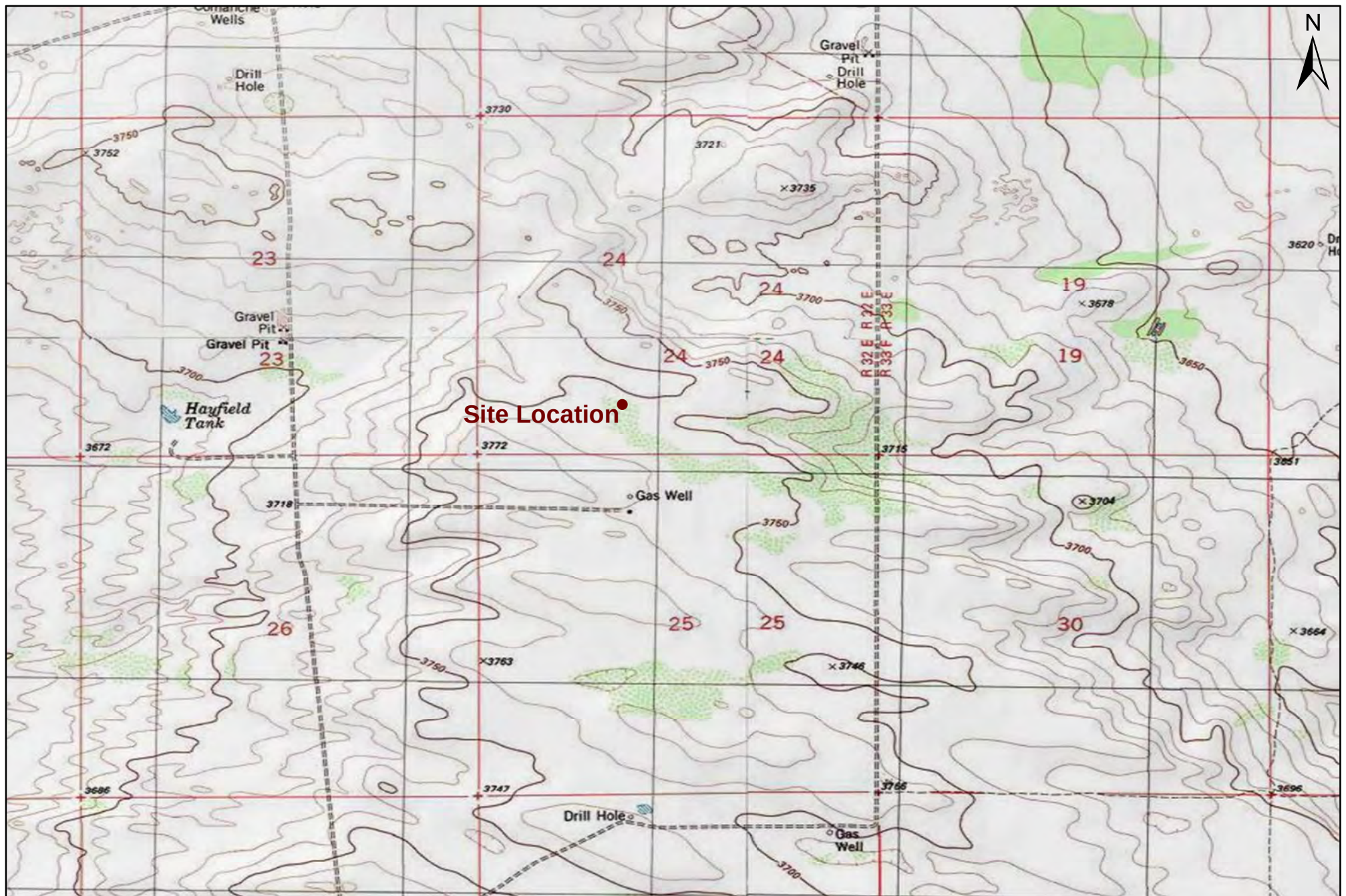


Figure 1
Site Location Map
Oxy USA, Inc.
Red Tank 24 Federal 1 & 2 CTB
Lea County, New Mexico
NMOCD Reference #: 1RP-4762



Trinity Oilfield Services & Rentals, LLC
P.O. Box 2587
Hobbs, NM 88241

Drawn By: BJA	Checked By: CTR
August 14, 2017	Scale: 1" = 2,000'

2,000 1,000 0 2,000
Distance in Feet



Legend



Release



Auger Hole

Figure 2
Sample Location Map
Oxy USA, Inc.
Red Tank 24 Federal 1 & 2 CTB
Lea County, New Mexico
NMOCD Ref. #: 1RP-4762



Trinity Oilfield Services & Rentals, LLC
P.O. Box 2587
Hobbs, NM 88241

Drawn By: BJA

Checked By: CTR

August 14, 2017

Scale: 1" = 20'

Tables

TABLE 1
CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

OXY USA, INC.
RED TANK 24 FEDERAL 1 & 2 CTB
LEA COUNTY, NEW MEXICO
NMOCD REF. #: 1RP-4762



SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030							METHOD: 8015M				300.1
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	M,P-XYLENES (mg/Kg)	O-XYLENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C ₆ -C ₁₂ (mg/Kg)	DRO C ₁₂ -C ₂₈ (mg/Kg)	EXT DRO C ₂₈ -C ₃₅ (mg/Kg)	TPH C ₆ -C ₃₅ (mg/Kg)	CHLORIDE (mg/Kg)
NMOCD Recommended Remediation Action Levels (RRALs)				10	NE	NE	NE	NE	NE	50	NE	NE	NE	5,000	1,000
SP-1 @ 0.5'	0.5'	7/20/17	In-Situ	-	-	-	-	-	-	-	2,340	6,450	<74.9	8,790	3,100
SP-1 @ 1'	1'	7/20/17	In-Situ	<0.0020	0.0481	0.120	0.406	0.142	0.548	0.716	75.0	360	<15.0	435	756
SP-1 @ 1.5'	1.5'	7/20/17	In-Situ	<0.0020	<0.0020	<0.0020	0.0067	0.0030	0.0097	0.0097	<15.0	16.3	<15.0	16.3	99.2
SP-2 @ 0.5'	0.5'	7/20/17	In-Situ	-	-	-	-	-	-	-	2,490	6,870	<74.8	9,360	1,580
SP-2 @ 1'	1'	7/20/17	In-Situ	<0.0020	<0.0020	0.00708	0.0331	0.0132	0.0463	0.0534	19.2	250	<14.9	269	52.8
SP-2 @ 1.5'	1.5'	7/20/17	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	90.6	<15.0	90.6	<4.96

NE = Not established

- = Not analyzed

Concentrations in BOLD exceed NMOCD RRALs

Appendices

Appendix A

Release Notification &

Corrective Action (Form C-141)

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 April 3, 2017

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	OXY USA INC	Contact	WADE DITTRICH
Address	PO BOX 4294; HOUSTON, TX 77210	Telephone No.	575-390-2828
Facility Name	RED TANK 24 FEDERAL 1 & 2 CTB	Facility Type	BATTERY

Surface Owner	BLM	Mineral Owner	BLM	API No.	
---------------	-----	---------------	-----	---------	--

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	24	22S	32E	860	SOUTH	1980	WEST	LEA

Latitude_32.372240__ Longitude_-103.630760__ NAD83

NATURE OF RELEASE

Type of Release	OIL & PRODUCED WATER	Volume of Release	4 bbls OIL & 6 bbls PRODUCED WATER	Volume Recovered	10 bbls
Source of Release	Water dump valve on heater caused tank to overflow	Date and Hour of Occurrence	07/16/2017	Date and Hour of Discovery	
Was Immediate Notice Given?	☒ Yes ☐ No ☐ Not Required	If YES, To Whom?	OLIVIA YU-NMOCD, SHELLY TUCKER-BLM		
By Whom?	WADE DITTRICH	Date and Hour	07/17/2017 @ 10:37 AM		
Was a Watercourse Reached?	☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

RECEIVED

By Olivia Yu at 2:21 pm, Jul 24, 2017

Describe Cause of Problem and Remedial Action Taken.*

Water dump valve on heater caused tank to overflow. Valve was repaired.

Describe Area Affected and Cleanup Action Taken.*

The affected area of the spill was 20x60 ft, Leak is inside battery berm (measurements are subject to change with GPS tracking). Remediation will be completed in accordance with a remediation plan approved by the NMOCD and BLM.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	<u>OIL CONSERVATION DIVISION</u>		
Printed Name: WADE DITTRICH	Approved by Environmental Specialist: 		
Title: ENVIROMENTAL COORDINATOR	Approval Date: 7/24/2017	Expiration Date:	
E-mail Address: wade_dittrich@oxy.com	Conditions of Approval: see attached directive	Attached ☒	
Date: 7-19-17	Phone: 575-390-2828		

* Attach Additional Sheets If Necessary

1RP-4762

nOY1720630819

fOY1720630422

pOY1720657536

Appendix B

Photographs



Red Tank 24 Fed 1 & 2 CTB - Release Site (Looking South)



Red Tank 24 Fed 1 & 2 CTB - Release (Looking West-Southwest)



Red Tank 24 Fed 1 & 2 CTB - Release (Looking Southwest)



Red Tank 24 Fed 1 & 2 CTB - Release (Looking East)



Red Tank 24 Fed 1 & 2 CTB – Release (Looking Southeast)



Red Tank 24 Fed 1 & 2 CTB – Release (Looking Southwest)



Red Tank 24 Fed 1 & 2 CTB – Release (Looking Northwest)



Red Tank 24 Fed 1 & 2 CTB – Release (Looking West)

Appendix C

Laboratory Analytical Reports



Certificate of Analysis Summary 558340

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: Red Tank 24 Fed 1 & 2 CTB



Project Id:

Contact: Ben Arguijo

Project Location:

Date Received in Lab: Mon Jul-24-17 03:30 pm

Report Date: 01-AUG-17

Project Manager: Holly Taylor

Analysis Requested	Lab Id:	558340-001	558340-002	558340-003	558340-004	558340-005	558340-006
	Field Id:	SP-1 @ 0.5'	SP-1 @ 1'	SP-1 @ 1.5'	SP-2 @ 0.5'	SP-2 @ 1'	SP-2 @ 1.5'
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Jul-20-17 08:30	Jul-20-17 08:35	Jul-20-17 08:40	Jul-20-17 08:50	Jul-20-17 08:55	Jul-20-17 09:00
BTEX by EPA 8021B	Extracted:		Jul-31-17 08:00	Jul-31-17 08:00		Jul-31-17 08:00	Jul-31-17 14:00
	Analyzed:		Jul-31-17 12:26	Jul-31-17 12:45		Jul-31-17 13:04	Aug-01-17 01:40
	Units/RL:		mg/kg RL	mg/kg RL		mg/kg RL	mg/kg RL
	Benzene		<0.00199 0.00199	<0.00200 0.00200		<0.00200 0.00200	<0.00200 0.00200
	Toluene		0.0481 0.00199	<0.00200 0.00200		<0.00200 0.00200	<0.00200 0.00200
Ethylbenzene			0.120 0.00199	<0.00200 0.00200		0.00708 0.00200	<0.00200 0.00200
m,p-Xylenes			0.406 0.00398	0.00666 0.00401		0.0331 0.00400	<0.00399 0.00399
o-Xylene			0.142 0.00199	0.00299 0.00200		0.0132 0.00200	<0.00200 0.00200
Total Xylenes			0.548 0.00199	0.00965 0.00200		0.0463 0.00200	<0.00200 0.00200
Total BTEX			0.716 0.00199	0.00965 0.00200		0.0534 0.00200	<0.00200 0.00200
Chloride by EPA 300	Extracted:	Jul-27-17 15:00	Jul-27-17 15:00	Jul-27-17 15:00	Jul-27-17 15:00	Jul-27-17 15:45	Jul-27-17 15:45
	Analyzed:	Jul-27-17 20:33	Jul-27-17 20:41	Jul-27-17 20:49	Jul-27-17 20:56	Jul-27-17 21:43	Jul-27-17 22:06
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
	Chloride	3100 25.0	756 4.94	99.2 4.98	1580 25.0	52.8 4.99	<4.96 4.96
TPH By SW8015 Mod	Extracted:	Jul-27-17 16:00	Jul-27-17 16:00	Jul-27-17 16:00	Jul-27-17 16:00	Jul-27-17 16:00	Jul-27-17 16:00
	Analyzed:	Jul-28-17 09:24	Jul-28-17 09:49	Jul-28-17 10:15	Jul-28-17 11:33	Jul-28-17 12:00	Jul-28-17 12:27
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
	Gasoline Range Hydrocarbons (GRO)	2340 74.9	75.0 15.0	<15.0 15.0	2490 74.8	19.2 14.9	<15.0 15.0
	Diesel Range Organics (DRO)	6450 74.9	360 15.0	16.3 15.0	6870 74.8	250 14.9	90.6 15.0
Oil Range Hydrocarbons (ORO)		<74.9 74.9	<15.0 15.0	<15.0 15.0	<74.8 74.8	<14.9 14.9	<15.0 15.0
Total TPH		8790 74.9	435 15.0	16.3 15.0	9360 74.8	269 14.9	90.6 15.0

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Version: 1.9%

Holly Taylor
Project Manager

Analytical Report 558340
for
Trinity Oilfield Services & Rentals, LLC

Project Manager: Ben Arguijo

Red Tank 24 Fed 1 & 2 CTB

01-AUG-17

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

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

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400)
Xenco-San Antonio: Texas (T104704534)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)



01-AUG-17

Project Manager: **Ben Arguijo**
Trinity Oilfield Services & Rentals, LLC
PO BOX 2587
Hobbs, NM 88241

Reference: XENCO Report No(s): **558340**
Red Tank 24 Fed 1 & 2 CTB
Project Address:

Ben Arguijo:

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) 558340. 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. 558340 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Holly Taylor
Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 558340



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 Fed 1 & 2 CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SP-1 @ 0.5'	S	07-20-17 08:30		558340-001
SP-1 @ 1'	S	07-20-17 08:35		558340-002
SP-1 @ 1.5'	S	07-20-17 08:40		558340-003
SP-2 @ 0.5'	S	07-20-17 08:50		558340-004
SP-2 @ 1'	S	07-20-17 08:55		558340-005
SP-2 @ 1.5'	S	07-20-17 09:00		558340-006



CASE NARRATIVE

Client Name: *Trinity Oilfield Services & Rentals, LLC*

Project Name: *Red Tank 24 Fed 1 & 2 CTB*

Project ID:
Work Order Number(s): 558340

Report Date: 01-AUG-17
Date Received: 07/24/2017

Sample receipt non conformances and comments:

HOLD BTEX UNLESS TPH $\leq$ 5,000 on each sample

Per Ben on 7-27-17 to Brandi add TPH 8015 N.M. method.

Took BTEX samples 002, 003, 005, 006 off hold since TPH was $\leq$ 5,000 BAR 7/28/17 17:40

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3023655 BTEX by EPA 8021B

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

Batch: LBA-3023672 BTEX by EPA 8021B

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



Certificate of Analytical Results 558340



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 Fed 1 & 2 CTB

Sample Id: **SP-1 @ 0.5'**

Matrix: Soil

Date Received: 07.24.17 15.30

Lab Sample Id: 558340-001

Date Collected: 07.20.17 08.30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MGO

% Moisture:

Analyst: MGO

Date Prep: 07.27.17 15.00

Basis: Wet Weight

Seq Number: 3023433

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3100	25.0	mg/kg	07.27.17 20.33		5

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 07.27.17 16.00

Basis: Wet Weight

Seq Number: 3023438

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	2340	74.9	mg/kg	07.28.17 09.24		5
Diesel Range Organics (DRO)	C10C28DRO	6450	74.9	mg/kg	07.28.17 09.24		5
Oil Range Hydrocarbons (ORO)	PHCG2835	<74.9	74.9	mg/kg	07.28.17 09.24	U	5
Total TPH	PHC635	8790	74.9	mg/kg	07.28.17 09.24		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	120	%	70-135	07.28.17 09.24	
o-Terphenyl	84-15-1	113	%	70-135	07.28.17 09.24	



Certificate of Analytical Results 558340



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 Fed 1 & 2 CTB

Sample Id: **SP-1 @ 1'**
Lab Sample Id: 558340-002

Matrix: Soil
Date Collected: 07.20.17 08.35

Date Received: 07.24.17 15.30

Analytical Method: Chloride by EPA 300

Tech: MGO

Analyst: MGO

Seq Number: 3023433

Prep Method: E300P

% Moisture:

Date Prep: 07.27.17 15.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	756	4.94	mg/kg	07.27.17 20.41		1

Analytical Method: TPH By SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3023438

Prep Method: TX1005P

% Moisture:

Date Prep: 07.27.17 16.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	75.0	15.0	mg/kg	07.28.17 09.49		1
Diesel Range Organics (DRO)	C10C28DRO	360	15.0	mg/kg	07.28.17 09.49		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	07.28.17 09.49	U	1
Total TPH	PHC635	435	15.0	mg/kg	07.28.17 09.49		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	96	%	70-135	07.28.17 09.49		
o-Terphenyl	84-15-1	113	%	70-135	07.28.17 09.49		



Certificate of Analytical Results 558340



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 Fed 1 & 2 CTB

Sample Id: **SP-1 @ 1'**

Matrix: Soil

Date Received: 07.24.17 15.30

Lab Sample Id: 558340-002

Date Collected: 07.20.17 08.35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.31.17 08.00

Basis: Wet Weight

Seq Number: 3023655

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	07.31.17 12.26	U	1
Toluene	108-88-3	0.0481	0.00199	mg/kg	07.31.17 12.26		1
Ethylbenzene	100-41-4	0.120	0.00199	mg/kg	07.31.17 12.26		1
m,p-Xylenes	179601-23-1	0.406	0.00398	mg/kg	07.31.17 12.26		1
o-Xylene	95-47-6	0.142	0.00199	mg/kg	07.31.17 12.26		1
Total Xylenes	1330-20-7	0.548	0.00199	mg/kg	07.31.17 12.26		1
Total BTEX		0.716	0.00199	mg/kg	07.31.17 12.26		1
Surrogate	Cas Number	% Recovery		Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	92		%	80-120	07.31.17 12.26	
4-Bromofluorobenzene	460-00-4	97		%	80-120	07.31.17 12.26	



Certificate of Analytical Results 558340



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 Fed 1 & 2 CTB

Sample Id: **SP-1 @ 1.5'**

Matrix: Soil

Date Received: 07.24.17 15.30

Lab Sample Id: 558340-003

Date Collected: 07.20.17 08.40

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MGO

% Moisture:

Analyst: MGO

Date Prep: 07.27.17 15.00

Basis: Wet Weight

Seq Number: 3023433

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	99.2	4.98	mg/kg	07.27.17 20.49		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 07.27.17 16.00

Basis: Wet Weight

Seq Number: 3023438

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	07.28.17 10.15	U	1
Diesel Range Organics (DRO)	C10C28DRO	16.3	15.0	mg/kg	07.28.17 10.15		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	07.28.17 10.15	U	1
Total TPH	PHC635	16.3	15.0	mg/kg	07.28.17 10.15		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-135	07.28.17 10.15	
o-Terphenyl	84-15-1	105	%	70-135	07.28.17 10.15	



Certificate of Analytical Results 558340



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 Fed 1 & 2 CTB

Sample Id: **SP-1 @ 1.5'**

Matrix: Soil

Date Received: 07.24.17 15.30

Lab Sample Id: 558340-003

Date Collected: 07.20.17 08.40

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.31.17 08.00

Basis: Wet Weight

Seq Number: 3023655

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.31.17 12.45	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.31.17 12.45	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.31.17 12.45	U	1
m,p-Xylenes	179601-23-1	0.00666	0.00401	mg/kg	07.31.17 12.45		1
o-Xylene	95-47-6	0.00299	0.00200	mg/kg	07.31.17 12.45		1
Total Xylenes	1330-20-7	0.00965	0.00200	mg/kg	07.31.17 12.45		1
Total BTEX		0.00965	0.00200	mg/kg	07.31.17 12.45		1
Surrogate	Cas Number	% Recovery		Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	98		%	80-120	07.31.17 12.45	
4-Bromofluorobenzene	460-00-4	115		%	80-120	07.31.17 12.45	



Certificate of Analytical Results 558340



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 Fed 1 & 2 CTB

Sample Id: **SP-2 @ 0.5'**

Matrix: Soil

Date Received: 07.24.17 15.30

Lab Sample Id: 558340-004

Date Collected: 07.20.17 08.50

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MGO

% Moisture:

Analyst: MGO

Date Prep: 07.27.17 15.00

Basis: Wet Weight

Seq Number: 3023433

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1580	25.0	mg/kg	07.27.17 20.56		5

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 07.27.17 16.00

Basis: Wet Weight

Seq Number: 3023438

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	2490	74.8	mg/kg	07.28.17 11.33		5
Diesel Range Organics (DRO)	C10C28DRO	6870	74.8	mg/kg	07.28.17 11.33		5
Oil Range Hydrocarbons (ORO)	PHCG2835	<74.8	74.8	mg/kg	07.28.17 11.33	U	5
Total TPH	PHC635	9360	74.8	mg/kg	07.28.17 11.33		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-135	07.28.17 11.33	
o-Terphenyl	84-15-1	122	%	70-135	07.28.17 11.33	



Certificate of Analytical Results 558340



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 Fed 1 & 2 CTB

Sample Id: **SP-2 @ 1'**
Lab Sample Id: 558340-005

Matrix: Soil
Date Collected: 07.20.17 08.55

Date Received: 07.24.17 15.30

Analytical Method: Chloride by EPA 300
Tech: MGO
Analyst: MGO
Seq Number: 3023436

Prep Method: E300P
% Moisture:
Date Prep: 07.27.17 15.45
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	52.8	4.99	mg/kg	07.27.17 21.43		1

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3023438

Prep Method: TX1005P
% Moisture:
Date Prep: 07.27.17 16.00
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	19.2	14.9	mg/kg	07.28.17 12.00		1
Diesel Range Organics (DRO)	C10C28DRO	250	14.9	mg/kg	07.28.17 12.00		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<14.9	14.9	mg/kg	07.28.17 12.00	U	1
Total TPH	PHC635	269	14.9	mg/kg	07.28.17 12.00		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	94	%	70-135	07.28.17 12.00		
o-Terphenyl	84-15-1	112	%	70-135	07.28.17 12.00		



Certificate of Analytical Results 558340



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 Fed 1 & 2 CTB

Sample Id: **SP-2 @ 1'**

Matrix: Soil

Date Received: 07.24.17 15.30

Lab Sample Id: 558340-005

Date Collected: 07.20.17 08.55

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.31.17 08.00

Basis: Wet Weight

Seq Number: 3023655

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.31.17 13.04	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.31.17 13.04	U	1
Ethylbenzene	100-41-4	0.00708	0.00200	mg/kg	07.31.17 13.04		1
m,p-Xylenes	179601-23-1	0.0331	0.00400	mg/kg	07.31.17 13.04		1
o-Xylene	95-47-6	0.0132	0.00200	mg/kg	07.31.17 13.04		1
Total Xylenes	1330-20-7	0.0463	0.00200	mg/kg	07.31.17 13.04		1
Total BTEX		0.0534	0.00200	mg/kg	07.31.17 13.04		1
Surrogate	Cas Number	% Recovery		Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	95		%	80-120	07.31.17 13.04	
4-Bromofluorobenzene	460-00-4	118		%	80-120	07.31.17 13.04	



Certificate of Analytical Results 558340



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 Fed 1 & 2 CTB

Sample Id: **SP-2 @ 1.5'**

Matrix: Soil

Date Received: 07.24.17 15.30

Lab Sample Id: 558340-006

Date Collected: 07.20.17 09.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MGO

% Moisture:

Analyst: MGO

Date Prep: 07.27.17 15.45

Basis: Wet Weight

Seq Number: 3023436

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.96	4.96	mg/kg	07.27.17 22.06	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 07.27.17 16.00

Basis: Wet Weight

Seq Number: 3023438

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	07.28.17 12.27	U	1
Diesel Range Organics (DRO)	C10C28DRO	90.6	15.0	mg/kg	07.28.17 12.27		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	07.28.17 12.27	U	1
Total TPH	PHC635	90.6	15.0	mg/kg	07.28.17 12.27		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	07.28.17 12.27	
o-Terphenyl	84-15-1	109	%	70-135	07.28.17 12.27	



Certificate of Analytical Results 558340



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 Fed 1 & 2 CTB

Sample Id: **SP-2 @ 1.5'**

Matrix: Soil

Date Received: 07.24.17 15.30

Lab Sample Id: 558340-006

Date Collected: 07.20.17 09.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.31.17 14.00

Basis: Wet Weight

Seq Number: 3023672

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.01.17 01.40	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.01.17 01.40	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.01.17 01.40	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	08.01.17 01.40	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.01.17 01.40	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.01.17 01.40	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.01.17 01.40	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	99	%	80-120	08.01.17 01.40		
4-Bromofluorobenzene	460-00-4	105	%	80-120	08.01.17 01.40		

- 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 **SQL** Sample 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

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - San Antonio - Atlanta - Midland/Odessa - Tampa/Lakeland - Phoenix - Latin America

4147 Greenbriar Dr, Stafford, TX 77477
 9701 Harry Hines Blvd, Dallas, TX 75220
 5332 Blackberry Drive, San Antonio TX 78238
 1211 W Florida Ave, Midland, TX 79701
 2525 W. Huntington Dr. - Suite 102, Tempe AZ 85282

Phone	Fax
(281) 240-4200	(281) 240-4280
(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(432) 563-1800	(432) 563-1713
(602) 437-0330	

Trinity Oilfield Services & Rentals, LLC
Red Tank 24 Fed 1 & 2 CTB**Analytical Method: Chloride by EPA 300**

Seq Number: 3023433

MB Sample Id: 728362-1-BLK

Matrix: Solid

LCS Sample Id: 728362-1-BKS

Prep Method: E300P

Date Prep: 07.27.17

LCSD Sample Id: 728362-1-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	247	99	90-110	1	20	mg/kg	07.27.17 17:14	

Analytical Method: Chloride by EPA 300

Seq Number: 3023436

MB Sample Id: 728364-1-BLK

Matrix: Solid

LCS Sample Id: 728364-1-BKS

Prep Method: E300P

Date Prep: 07.27.17

LCSD Sample Id: 728364-1-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	248	99	251	100	90-110	1	20	mg/kg	07.27.17 21:27	

Analytical Method: Chloride by EPA 300

Seq Number: 3023433

Parent Sample Id: 558057-001

Matrix: Soil

MS Sample Id: 558057-001 S

Prep Method: E300P

Date Prep: 07.27.17

MSD Sample Id: 558057-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	342	250	577	94	582	96	90-110	1	20	mg/kg	07.27.17 17:37	

Analytical Method: Chloride by EPA 300

Seq Number: 3023433

Parent Sample Id: 558337-005

Matrix: Soil

MS Sample Id: 558337-005 S

Prep Method: E300P

Date Prep: 07.27.17

MSD Sample Id: 558337-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1080	248	1280	81	1280	81	90-110	0	20	mg/kg	07.27.17 19:24	X

Analytical Method: Chloride by EPA 300

Seq Number: 3023436

Parent Sample Id: 558340-005

Matrix: Soil

MS Sample Id: 558340-005 S

Prep Method: E300P

Date Prep: 07.27.17

MSD Sample Id: 558340-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	52.8	250	305	101	314	104	90-110	3	20	mg/kg	07.27.17 21:50	

Analytical Method: Chloride by EPA 300

Seq Number: 3023436

Parent Sample Id: 558546-004

Matrix: Soil

MS Sample Id: 558546-004 S

Prep Method: E300P

Date Prep: 07.27.17

MSD Sample Id: 558546-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	14.6	247	266	102	266	102	90-110	0	20	mg/kg	07.27.17 23:38	



QC Summary 558340

Trinity Oilfield Services & Rentals, LLC Red Tank 24 Fed 1 & 2 CTB

Analytical Method: TPH By SW8015 Mod

Seq Number: 3023438

MB Sample Id: 728359-1-BLK

Matrix: Solid

LCS Sample Id: 728359-1-BKS

Prep Method: TX1005P

Date Prep: 07.27.17

LCSD Sample Id: 728359-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	930	93	939	94	70-135	1	35	mg/kg	07.28.17 08:32	
Diesel Range Organics (DRO)	<15.0	1000	986	99	998	100	70-135	1	35	mg/kg	07.28.17 08:32	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date			
1-Chlorooctane	97		117		116		70-135	%	07.28.17 08:32			
o-Terphenyl	117		129		126		70-135	%	07.28.17 08:32			

Analytical Method: TPH By SW8015 Mod

Seq Number: 3023438

Parent Sample Id: 558340-003

Matrix: Soil

MS Sample Id: 558340-003 S

Prep Method: TX1005P

Date Prep: 07.27.17

MSD Sample Id: 558340-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	997	978	98	965	97	70-135	1	35	mg/kg	07.28.17 10:41	
Diesel Range Organics (DRO)	16.3	997	1040	103	1040	102	70-135	0	35	mg/kg	07.28.17 10:41	
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date			
1-Chlorooctane			122		120		70-135	%	07.28.17 10:41			
o-Terphenyl			127		128		70-135	%	07.28.17 10:41			

Analytical Method: BTEX by EPA 8021B

Seq Number: 3023655

MB Sample Id: 728518-1-BLK

Matrix: Solid

LCS Sample Id: 728518-1-BKS

Prep Method: SW5030B

Date Prep: 07.31.17

LCSD Sample Id: 728518-1-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	0.0959	96	0.102	102	70-130	6	35	mg/kg	07.31.17 08:39	
Toluene	<0.00200	0.100	0.0989	99	0.105	105	70-130	6	35	mg/kg	07.31.17 08:39	
Ethylbenzene	<0.00200	0.100	0.104	104	0.111	111	71-129	7	35	mg/kg	07.31.17 08:39	
m,p-Xylenes	<0.00401	0.200	0.203	102	0.215	108	70-135	6	35	mg/kg	07.31.17 08:39	
o-Xylene	<0.00200	0.100	0.102	102	0.108	108	71-133	6	35	mg/kg	07.31.17 08:39	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date			
1,4-Difluorobenzene	100		103		106		80-120	%	07.31.17 08:39			
4-Bromofluorobenzene	106		110		113		80-120	%	07.31.17 08:39			

Trinity Oilfield Services & Rentals, LLC
Red Tank 24 Fed 1 & 2 CTB

Analytical Method: BTEX by EPA 8021B

Seq Number: 3023672

MB Sample Id: 728520-1-BLK

Matrix: Solid

LCS Sample Id: 728520-1-BKS

Prep Method: SW5030B

Date Prep: 07.31.17

LCSD Sample Id: 728520-1-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	0.0970	97	0.0959	95	70-130	1	35	mg/kg	07.31.17 20:59	
Toluene	<0.00200	0.100	0.100	100	0.0986	98	70-130	1	35	mg/kg	07.31.17 20:59	
Ethylbenzene	<0.00200	0.100	0.107	107	0.105	104	71-129	2	35	mg/kg	07.31.17 20:59	
m,p-Xylenes	<0.00401	0.200	0.208	104	0.205	101	70-135	1	35	mg/kg	07.31.17 20:59	
o-Xylene	<0.00200	0.100	0.107	107	0.106	105	71-133	1	35	mg/kg	07.31.17 20:59	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		104		104		80-120	%	07.31.17 20:59
4-Bromofluorobenzene	104		113		113		80-120	%	07.31.17 20:59

Analytical Method: BTEX by EPA 8021B

Seq Number: 3023655

Parent Sample Id: 558757-011

Matrix: Soil

MS Sample Id: 558757-011 S

Prep Method: SW5030B

Date Prep: 07.31.17

MSD Sample Id: 558757-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00202	0.101	0.0503	50	0.0413	41	70-130	20	35	mg/kg	07.31.17 16:36	X
Toluene	<0.00202	0.101	0.0426	42	0.0337	33	70-130	23	35	mg/kg	07.31.17 16:36	X
Ethylbenzene	<0.00202	0.101	0.0352	35	0.0260	26	71-129	30	35	mg/kg	07.31.17 16:36	X
m,p-Xylenes	<0.00404	0.202	0.0675	33	0.0499	25	70-135	30	35	mg/kg	07.31.17 16:36	X
o-Xylene	<0.00202	0.101	0.0369	37	0.0275	27	71-133	29	35	mg/kg	07.31.17 16:36	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		99		80-120	%	07.31.17 16:36
4-Bromofluorobenzene	114		112		80-120	%	07.31.17 16:36

Analytical Method: BTEX by EPA 8021B

Seq Number: 3023672

Parent Sample Id: 558748-002

Matrix: Soil

MS Sample Id: 558748-002 S

Prep Method: SW5030B

Date Prep: 07.31.17

MSD Sample Id: 558748-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0996	0.0800	80	0.0831	83	70-130	4	35	mg/kg	07.31.17 21:36	
Toluene	<0.00199	0.0996	0.0797	80	0.0814	81	70-130	2	35	mg/kg	07.31.17 21:36	
Ethylbenzene	<0.00199	0.0996	0.0796	80	0.0762	76	71-129	4	35	mg/kg	07.31.17 21:36	
m,p-Xylenes	<0.00398	0.199	0.154	77	0.146	73	70-135	5	35	mg/kg	07.31.17 21:36	
o-Xylene	<0.00199	0.0996	0.0802	81	0.0766	77	71-133	5	35	mg/kg	07.31.17 21:36	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	108		109		80-120	%	07.31.17 21:36
4-Bromofluorobenzene	118		120		80-120	%	07.31.17 21:36



XENCO Laboratories
Prelogin/Nonconformance Report- Sample Log-In



Client: Trinity Oilfield Services & Rentals, LLC

Date/ Time Received: 07/24/2017 03:30:00 PM

Work Order #: 558340

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)?	.7
#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
Jessica Kramer

Date: 07/25/2017

Checklist reviewed by: Brandi Ritcherson
Brandi Ritcherson

Date: 07/25/2017