

Trinity Oilfield Services & Rentals, LLC

Environmental Site Summary & Spill Remediation Proposal



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

Site Name: Lost Tank 35 State #7 NMOCD Reference#: 2RP-4496

Surface Owner: State of New Mexico Mineral Owner: State of New Mexico

Unit Letter: K (NE/SW) Section: 35 Township: 21S Range: 31E County: Eddy GPS Coordinates: 32.43216 N -103.75008 W

Depth to Ground Water: 120' 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 Chloride: ☐ 250
☐ 1,000 ☒ 600
☒ 5,000

Date/Time of Release: 11/16/2017 Type of Release: Crude Oil & Produced Water Approximate Volume of Release: See Below

Background Information:

On November 16, 2017, OXY USA, Inc. (OXY), discovered a release at the Lost Tank 35 State #7 (Lost Tank 35) well site. Failure of a section of 3-inch poly line resulted in the release of approximately 25 barrel (bbls) of produced water and 0.25 bbls of crude oil, with no recovery. The release affected an area of the caliche well pad measuring approximately 5,070 square feet. During initial response activities, the damaged section of the poly line was repaired, and a small portion of the affected area was backdraged.

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

Summary of Field Activities:

On December 7, 2017, a hand-auger was utilized to collect a series of soil samples from four (4) locations (SP-1 through SP-4) in the visibly stained area to investigate the extent of impacted soil. The auger holes were advanced to total depths ranging from approximately 6 inches (SP-4) to 6 feet (SP-1) below ground surface (bgs). Soil samples were collected at 6-inch to 1-foot vertical intervals and field-screened with a chloride test kit. Confirmation samples were submitted to Xenco Laboratories in Midland, Texas, for analysis of chloride, total petroleum hydrocarbons (TPH), and/or benzene, toluene, ethylbenzene, and total xylene (BTEX) concentrations using Environmental Protection Agency (EPA) Methods 300, SW 846-8015 Mod, and SW 846-8021B, respectively.

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 D. Chloride field test results are summarized in Table 2.

Proposed Activities:

OXY proposes to conduct the following activities to progress the Lost Tank 35 release site to an NMOCD- and NMSLO-approved closure:

- All excavated soil will be stockpiled on-site on 6-mil plastic, pending transfer to Lea Land, Inc. (NMOCD Permit #WM-01-035), for disposal.
- Excavation in some impacted areas will be hindered by the presence of the active pumpjack and associated pipes, appurtenances, electrical lines, etc.

Trinity Oilfield Services & Rentals, LLC

Environmental Site Summary & Spill Remediation Proposal



Proposed Activities (cont.):

- The excavation will be advanced horizontally until field test readings and/or visual/olfactory senses suggest contaminants of concern are below the NMOCD "Recommended Remediation Action Levels" (RRALs) established for the site (or to the extent practicable). The excavation will be advanced vertically as follows:
 - 6 inches to 1 foot bgs in the area represented by auger hole SP-4 and immediately adjacent to the on-site wellhead and pumpjack.
 - 2 feet bgs in the area represented by auger hole SP-3.
 - 3 feet bgs in the area represented by auger hole SP-2.
 - 4 feet bgs in the area represented by auger hole SP-1.
- Soil samples will be collected at approximate 50-foot horizontal intervals from the floor and sidewalls of the excavation and submitted to Xenco Laboratories for confirmatory analyses of chloride, TPH, and/or BTEX concentrations using the EPA analytical methods listed in the "Summary of Field Activities" above.
- Following remediation activities, the excavation will be backfilled with non-impacted material, compacted, and contoured to fit the surrounding topography.
- Upon completion of the aforementioned corrective actions, a "Remediation Summary & Closure Request" will be submitted to the NMOCD and NMSLO, documenting remediation activities and results of confirmation soil samples.

Enclosures:

Figure 1: Site Location Map

Figure 2: Sample Location Map

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

Table 2: Chloride Field Tests

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

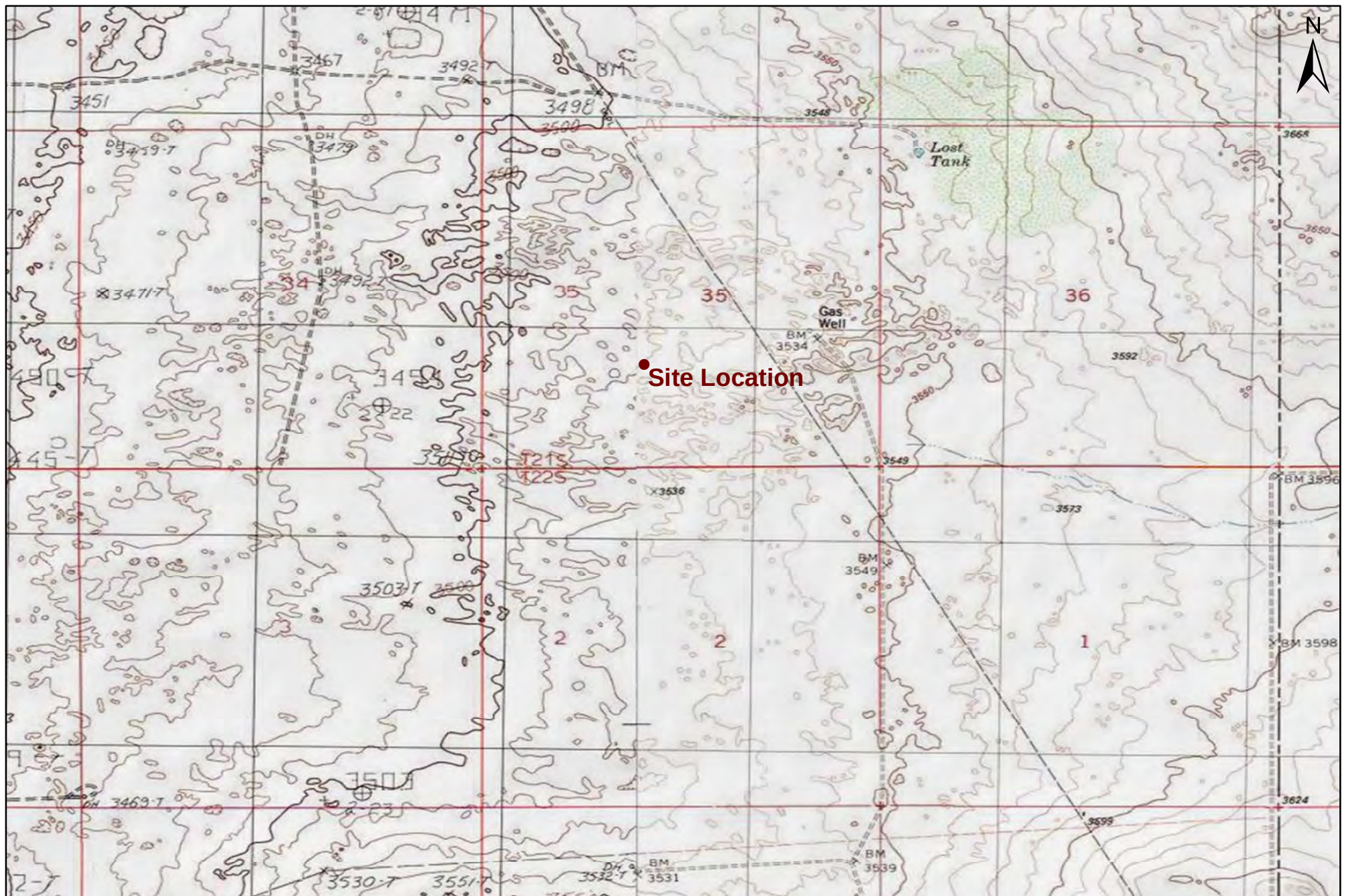
Appendix B: Depth-to-Groundwater Data

Appendix C: Photographs

Appendix D: Laboratory Analytical Results

 4/23/2018
Ben J. Arguijo
Project Manager

Figures



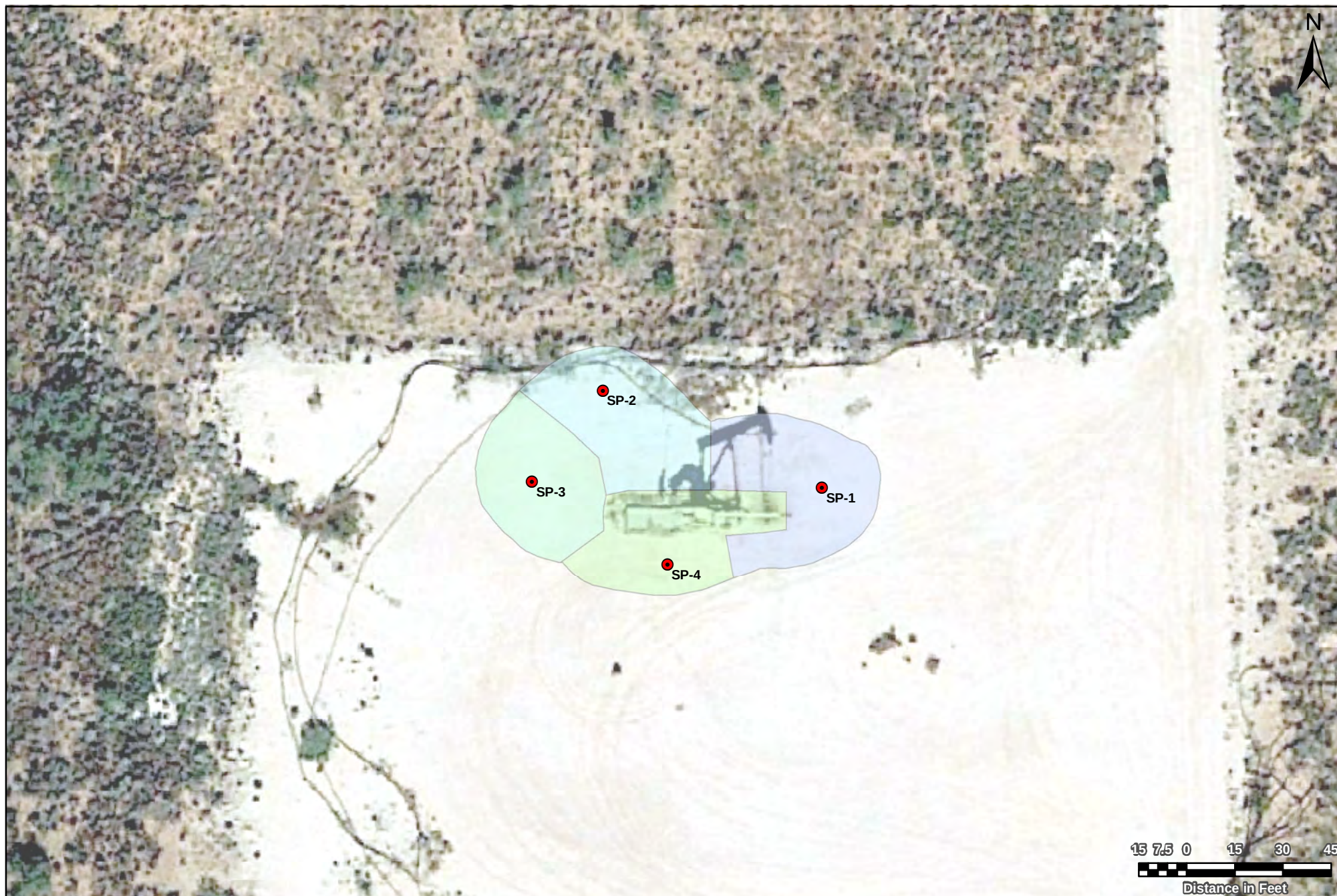
2,000 1,000 0 2,000
Distance in Feet

Figure 1
Site Location Map
OXY USA, Inc.
Lost Tank 35 State #7
Eddy County, New Mexico
NMOCD Reference #: 2RP-4496



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

Drawn By: BJA	Checked By: CTR
April 20, 2018	Scale: 1" = 2,000'



Legend

Proposed Excavation Depths	● Auger Hole
6" - 1' bgs	
2' bgs	
3' bgs	
4' bgs	

Figure 2
Sample Location Map
OXY USA, Inc.
Lost Tank 35 State #7
Eddy County, New Mexico
NMOCD Reference #: 2RP-4496



Trinity Oilfield Services & Rentals, LLC P.O. Box 2587 Hobbs, NM 88241	
Drawn By: BJA	Checked By: CTR
April 23, 2018	Scale: 1" = 40'

Tables

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

OXY USA, INC.
 LOST TANK 35 STATE #7
 EDDY COUNTY, NEW MEXICO
 NMOCD REFERENCE #: 2RP-4496



SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030							METHOD: 8015M				300
				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	600
SP-1 @ 6"	6"	12/7/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	80.7	<15.0	80.7	1,010
SP-1 @ 3'	3'	12/7/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	17.0	<15.0	17.0	1,310
SP-1 @ 5'	5'	12/7/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	17.9	<15.0	17.9	395
SP-1 @ 6'	6'	12/7/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	539
SP-2 @ 6"	6"	12/7/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	2,920
SP-2 @ 2'	2'	12/7/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	668
SP-3 @ 6"	6"	12/7/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	15.3	15.3	1,730
SP-3 @ 1'	1'	12/7/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<14.9	<14.9	<14.9	<14.9	671
SP-4 @ 6"	6"	12/7/2017	In-Situ	<0.0020	0.0032	<0.0020	<0.0040	<0.0020	<0.0020	0.00316	<15.0	155	55.7	211	83.0

NE = Not established

- = Not analyzed

Concentrations in **BOLD** exceed NMOCD RRALs

**TABLE 2
CHLORIDE FIELD TESTS**

**OXY USA, INC.
LOST TANK 35 STATE #7
EDDY COUNTY, NEW MEXICO
NMOCD REF. #: 2RP-4496**



SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	HACH QUANTAB
				CHLORIDE (mg/Kg)
NMOCD Recommended Remediation Action Level (RRAL)				600
SP-1 @ 6"	6"	12/7/2017	In-Situ	780
SP-1 @ 1'	1'	12/7/2017	In-Situ	780
SP-1 @ 2'	2'	12/7/2017	In-Situ	1,312
SP-1 @ 3'	3'	12/7/2017	In-Situ	1,632
SP-1 @ 4'	4'	12/7/2017	In-Situ	1,312
SP-1 @ 5'	5'	12/7/2017	In-Situ	392
SP-1 @ 6'	6'	12/7/2017	In-Situ	516
SP-2 @ 6"	6"	12/7/2017	In-Situ	1,756
SP-2 @ 1'	1'	12/7/2017	In-Situ	472
SP-2 @ 2'	2'	12/7/2017	In-Situ	392
SP-3 @ 6'''	6"	12/7/2017	In-Situ	1,136
SP-3 @ 1'	1'	12/7/2017	In-Situ	564
SP-4 @ 6"	6"	12/7/2017	In-Situ	<128

Concentrations in **BOLD** exceed the NMOCD RRAL

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

NM OIL CONSERVATION
ARTESIA DISTRICT

NOV 21 2017

Form C-141
Revised April 3, 2017

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit 1 Copy to appropriate District Office in
concordance with 19.15.29 NMAC.

RECEIVED

Release Notification and Corrective Action

NAB1733254794

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	LOST TANK 35 STATE #7	Facility Type	WELL
Surface Owner	STATE	Mineral Owner	STATE
		API No.	30-015-31640

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	35	21S	31E	1650	SOUTH	2030	WEST	EDDY

Latitude 32.43216 Longitude -103.75008 NAD83

NATURE OF RELEASE

Type of Release	OIL & PRODUCED WATER	Volume of Release	.25 BBL OIL 25 BBLs PRODUCED WATER	Volume Recovered	0 BBLs
Source of Release	3 INCH POLY LINE FAILURE	Date and Hour of Occurrence	11-16-2017	Date and Hour of Discovery	
Was Immediate Notice Given?	☒ Yes ☐ No ☐ Not Required	If YES, To Whom?	MIKE BRATCHER-NMOCD; CRYSTAL WEAVER-NMOCD		
By Whom?	WADE DITTRICH	Date and Hour	11-20-2017 @ 10:22 AM		
Was a Watercourse Reached?	☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

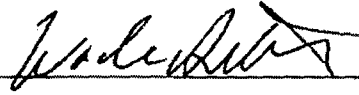
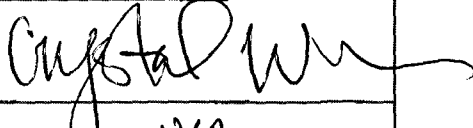
Describe Cause of Problem and Remedial Action Taken.*

Leak was caused by a 3 inch poly line failure. Line was repaired and returned to service.

Describe Area Affected and Cleanup Action Taken.*

The affected area is 10x50 (measurements are subject to change with GPS tracking). Remediation will be completed in accordance with a remediation plan approved by the NMOCD and the SLO.

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:			
Printed Name:	WADE DITTRICH		
Title:	ENVIROMENTAL COORDINATOR		
E-mail Address:	wade_dittrich@oxy.com		
Date:	11-21-17	Phone:	575-390-2828
		OIL CONSERVATION DIVISION	
		Approved by Environmental Specialist: 	
		Approval Date:	11/28/17
		Expiration Date:	N/A
		Conditions of Approval:	see attached
		Attached	APP. 4496

* Attach Additional Sheets If Necessary

11/21/17AB

Appendix B

Depth-to-Groundwater Data



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 02949 EXPL			ED	1	1	4	34	21S	31E	616140	3589231*	1383	970		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 1

UTM NAD83 Radius Search (in meters):

Easting (X): 617508

Northing (Y): 3589026

Radius: 1610

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

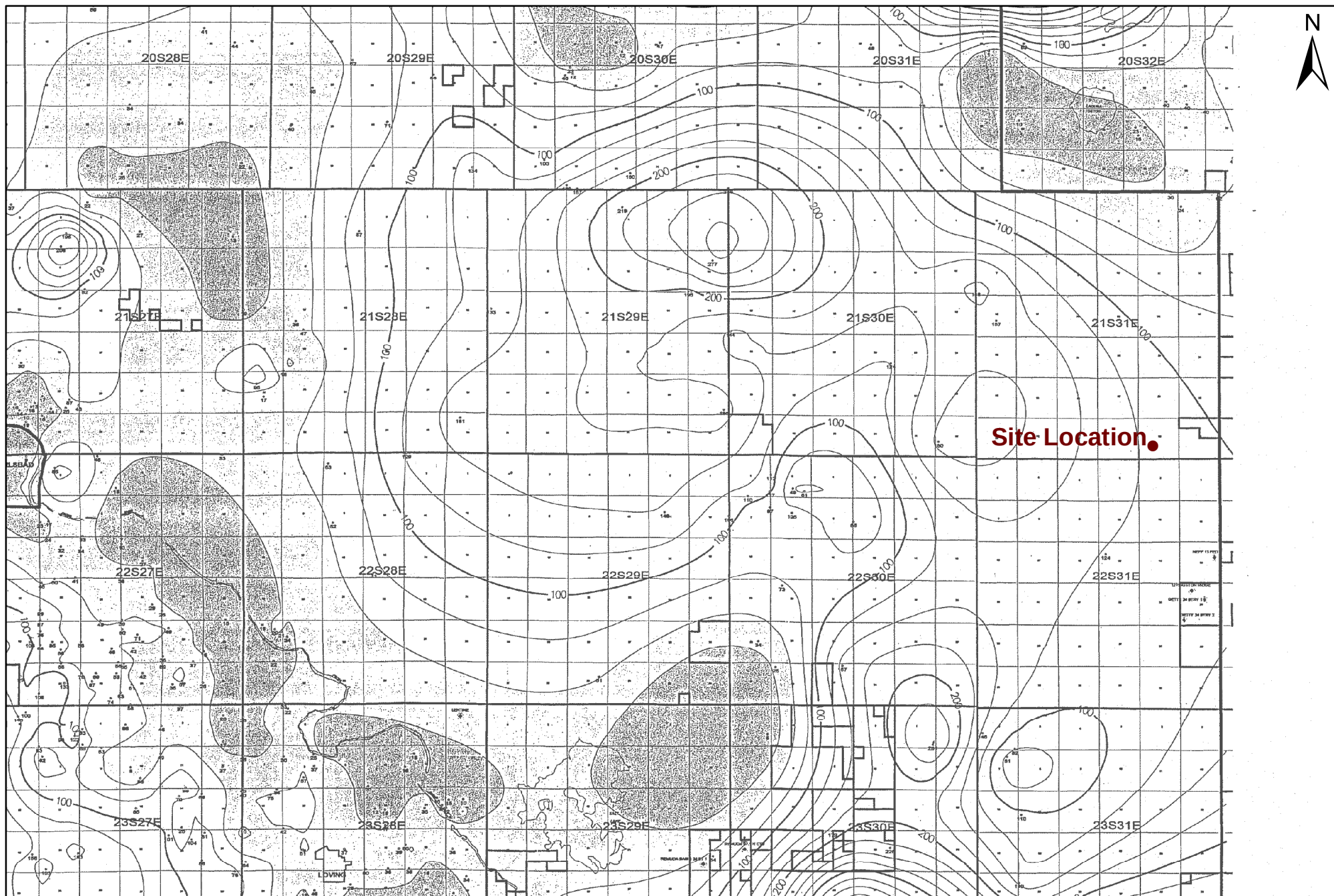


Figure 3
Depth-to-Groundwater Trend Map
OXY USA, Inc.
Lost Tank 35 State #7
Eddy County, New Mexico
NMOCD Reference #: 2RP-4496



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

Drawn By: BJA	Checked By: CTR
April 20, 2018	Not To Scale

Appendix C

Photographs

OXY USA, Inc. – Lost Tank 35 State #7
Unit Letter “K” (NE/SW), Section 35, Township 21S, Range 31E



Lost Tank 35 St. 0007 – Release (Looking Northwest)



Lost Tank 35 St. 0007 – Release (Looking Northeast)

OXY USA, Inc. – Lost Tank 35 State #7
Unit Letter “K” (NE/SW), Section 35, Township 21S, Range 31E



Lost Tank 35 St. 0007 – Release (Looking North-Northeast)



Lost Tank 35 St. 0007 – Release (Looking East-Southeast)

OXY USA, Inc. – Lost Tank 35 State #7
Unit Letter “K” (NE/SW), Section 35, Township 21S, Range 31E



Lost Tank 35 St. 0007 – Release (Looking Southeast)



Lost Tank 35 St. 0007 – Release (Looking East)

OXY USA, Inc. – Lost Tank 35 State #7
Unit Letter “K” (NE/SW), Section 35, Township 21S, Range 31E



Lost Tank 35 St. 0007 – Release (Looking East-Northeast)



Lost Tank 35 St. 0007 – Release (Looking West)

OXY USA, Inc. – Lost Tank 35 State #7

Unit Letter “K” (NE/SW), Section 35, Township 21S, Range 31E



Lost Tank 35 St. 0007 – Release (Looking Northwest)

Appendix D

Laboratory Analytical Reports



Certificate of Analysis Summary 570669

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: Lost Tank 35 State 007



Project Id:

Contact: Ben Arguijo

Project Location: Hobbs

Date Received in Lab: Fri Dec-08-17 02:30 pm

Report Date: 18-DEC-17

Project Manager: Holly Taylor

Analysis Requested	Lab Id:	570669-001	570669-002	570669-003	570669-004	570669-005	570669-006
	Field Id:	Sp-1@6"	Sp-1@3'	Sp-1@5'	Sp-1@6'	Sp-2@6"	Sp-2@2'
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Dec-07-17 09:47	Dec-07-17 10:05	Dec-07-17 10:21	Dec-07-17 10:25	Dec-07-17 10:43	Dec-07-17 10:52
BTEX by EPA 8021B	Extracted:	Dec-14-17 16:00	Dec-14-17 16:00	Dec-14-17 16:00	Dec-14-17 16:00	Dec-14-17 16:00	Dec-14-17 16:00
	Analyzed:	Dec-15-17 13:32	Dec-15-17 13:51	Dec-15-17 15:02	Dec-15-17 15:47	Dec-15-17 16:06	Dec-15-17 16:25
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199
Toluene		<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199
Ethylbenzene		<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199
m,p-Xylenes		<0.00399 0.00399	<0.00400 0.00400	<0.00402 0.00402	<0.00402 0.00402	<0.00401 0.00401	<0.00398 0.00398
o-Xylene		<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199
Total Xylenes		<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199
Total BTEX		<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199
Chloride by EPA 300	Extracted:	Dec-13-17 15:00	Dec-12-17 16:10	Dec-13-17 15:00	Dec-13-17 15:00	Dec-13-17 15:00	Dec-13-17 15:00
	Analyzed:	Dec-13-17 18:01	Dec-13-17 00:24	Dec-13-17 18:19	Dec-13-17 18:25	Dec-13-17 18:43	Dec-13-17 18:49
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		1010 4.95	1310 24.9	395 4.98	539 4.96	2920 24.8	668 4.96
TPH By SW8015 Mod	Extracted:	Dec-11-17 11:00	Dec-11-17 11:00	Dec-11-17 11:00	Dec-11-17 11:00	Dec-11-17 11:00	Dec-11-17 11:00
	Analyzed:	Dec-12-17 04:14	Dec-12-17 05:15	Dec-12-17 05:36	Dec-12-17 05:59	Dec-12-17 06:19	Dec-12-17 06:39
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0
Diesel Range Organics (DRO)		80.7 15.0	17.0 15.0	17.9 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0
Oil Range Hydrocarbons (ORO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0
Total TPH		80.7 15.0	17.0 15.0	17.9 15.0	<15.0 15.0	<15.0 15.0	<15.0 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

Holly Taylor
Project Manager



Certificate of Analysis Summary 570669

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: Lost Tank 35 State 007



Project Id:

Contact: Ben Arguijo

Project Location: Hobbs

Date Received in Lab: Fri Dec-08-17 02:30 pm

Report Date: 18-DEC-17

Project Manager: Holly Taylor

Analysis Requested	Lab Id:	570669-007	570669-008	570669-009			
	Field Id:	Sp-3@6"	Sp-3@1'	Sp-4@6"			
	Depth:						
	Matrix:	SOIL	SOIL	SOIL			
	Sampled:	Dec-07-17 11:09	Dec-07-17 11:12	Dec-07-17 11:28			
BTEX by EPA 8021B	Extracted:	Dec-14-17 16:00	Dec-14-17 16:00	Dec-15-17 16:00			
	Analyzed:	Dec-15-17 16:44	Dec-15-17 17:14	Dec-16-17 02:40			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Benzene		<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202			
Toluene		<0.00200 0.00200	<0.00200 0.00200	0.00316 0.00202			
Ethylbenzene		<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202			
m,p-Xylenes		<0.00399 0.00399	<0.00401 0.00401	<0.00404 0.00404			
o-Xylene		<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202			
Total Xylenes		<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202			
Total BTEX		<0.00200 0.00200	<0.00200 0.00200	0.00316 0.00202			
Chloride by EPA 300	Extracted:	Dec-12-17 16:10	Dec-13-17 15:00	Dec-12-17 16:10			
	Analyzed:	Dec-13-17 00:29	Dec-13-17 18:55	Dec-13-17 00:35			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride		1730 25.0	671 4.92	83.0 24.9			
TPH By SW8015 Mod	Extracted:	Dec-11-17 11:00	Dec-11-17 11:00	Dec-11-17 11:00			
	Analyzed:	Dec-12-17 06:59	Dec-12-17 07:18	Dec-12-17 07:38			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<14.9 14.9	<15.0 15.0			
Diesel Range Organics (DRO)		<15.0 15.0	<14.9 14.9	155 15.0			
Oil Range Hydrocarbons (ORO)		15.3 15.0	<14.9 14.9	55.7 15.0			
Total TPH		15.3 15.0	<14.9 14.9	211 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

Holly Taylor
Project Manager

Analytical Report 570669
for
Trinity Oilfield Services & Rentals, LLC

Project Manager: Ben Arguijo

Lost Tank 35 State 007

18-DEC-17

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-17-23), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab code: TX01468):
Texas (T104704295-17-15), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab code: TX00127): Texas (T104704221-17-12)
Xenco-Lubbock (EPA Lab code: TX00139): Texas (T104704219-17-16)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-17-13)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)



18-DEC-17

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

Reference: XENCO Report No(s): **570669**
Lost Tank 35 State 007
Project Address: Hobbs

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) 570669. 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. 570669 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.

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Sample Cross Reference 570669



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Lost Tank 35 State 007

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Sp-1@6"	S	12-07-17 09:47		570669-001
Sp-1@3'	S	12-07-17 10:05		570669-002
Sp-1@5'	S	12-07-17 10:21		570669-003
Sp-1@6'	S	12-07-17 10:25		570669-004
Sp-2@6"	S	12-07-17 10:43		570669-005
Sp-2@2'	S	12-07-17 10:52		570669-006
Sp-3@6"	S	12-07-17 11:09		570669-007
Sp-3@1'	S	12-07-17 11:12		570669-008
Sp-4@6"	S	12-07-17 11:28		570669-009



CASE NARRATIVE

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

Project Name: *Lost Tank 35 State 007*

Project ID:
Work Order Number(s): 570669

Report Date: 18-DEC-17
Date Received: 12/08/2017

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3035884 Inorganic Anions by EPA 300

Lab Sample ID 570809-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 570669-001, -003, -004, -005, -006, -008.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3036005 BTEX by EPA 8021B

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

Batch: LBA-3036149 BTEX by EPA 8021B

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



Certificate of Analytical Results 570669



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Lost Tank 35 State 007

Sample Id: **Sp-1@6"**
Lab Sample Id: 570669-001

Matrix: Soil
Date Collected: 12.07.17 09.47

Date Received: 12.08.17 14.30

Analytical Method: Chloride by EPA 300
Tech: LRI
Analyst: OJS
Seq Number: 3035884

Prep Method: E300P
% Moisture:
Date Prep: 12.13.17 15.00
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1010	4.95	mg/kg	12.13.17 18.01		1

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3035623

Prep Method: TX1005P
% Moisture:
Date Prep: 12.11.17 11.00
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.12.17 04.14	U	1
Diesel Range Organics (DRO)	C10C28DRO	80.7	15.0	mg/kg	12.12.17 04.14		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	12.12.17 04.14	U	1
Total TPH	PHC635	80.7	15.0	mg/kg	12.12.17 04.14		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	90	%	70-135	12.12.17 04.14		
o-Terphenyl	84-15-1	92	%	70-135	12.12.17 04.14		



Certificate of Analytical Results 570669



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Lost Tank 35 State 007

Sample Id: **Sp-1@6"**
Lab Sample Id: 570669-001

Matrix: Soil
Date Collected: 12.07.17 09.47

Date Received: 12.08.17 14.30

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 12.14.17 16.00

Basis: Wet Weight

Seq Number: 3036005

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.15.17 13.32	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.15.17 13.32	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.15.17 13.32	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	12.15.17 13.32	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.15.17 13.32	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.15.17 13.32	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.15.17 13.32	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	88	%	80-120	12.15.17 13.32		
4-Bromofluorobenzene	460-00-4	91	%	80-120	12.15.17 13.32		



Certificate of Analytical Results 570669



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Lost Tank 35 State 007

Sample Id: **Sp-1@3'**
Lab Sample Id: 570669-002

Matrix: Soil
Date Collected: 12.07.17 10.05

Date Received: 12.08.17 14.30

Analytical Method: Chloride by EPA 300
Tech: LRI
Analyst: OJS
Seq Number: 3035745

Prep Method: E300P
% Moisture:
Date Prep: 12.12.17 16.10
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1310	24.9	mg/kg	12.13.17 00.24		5

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3035623

Prep Method: TX1005P
% Moisture:
Date Prep: 12.11.17 11.00
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.12.17 05.15	U	1
Diesel Range Organics (DRO)	C10C28DRO	17.0	15.0	mg/kg	12.12.17 05.15		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	12.12.17 05.15	U	1
Total TPH	PHC635	17.0	15.0	mg/kg	12.12.17 05.15		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	91	%	70-135	12.12.17 05.15		
o-Terphenyl	84-15-1	93	%	70-135	12.12.17 05.15		



Certificate of Analytical Results 570669



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Lost Tank 35 State 007

Sample Id: **Sp-1@3'**
Lab Sample Id: 570669-002

Matrix: Soil
Date Collected: 12.07.17 10.05

Date Received: 12.08.17 14.30

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 12.14.17 16.00

Basis: Wet Weight

Seq Number: 3036005

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.15.17 13.51	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.15.17 13.51	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.15.17 13.51	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.15.17 13.51	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.15.17 13.51	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.15.17 13.51	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.15.17 13.51	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	91	%	80-120	12.15.17 13.51		
1,4-Difluorobenzene	540-36-3	88	%	80-120	12.15.17 13.51		



Certificate of Analytical Results 570669



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Lost Tank 35 State 007

Sample Id: **Sp-1@5'**
Lab Sample Id: 570669-003

Matrix: Soil
Date Collected: 12.07.17 10.21

Date Received: 12.08.17 14.30

Analytical Method: Chloride by EPA 300
Tech: LRI
Analyst: OJS
Seq Number: 3035884

Date Prep: 12.13.17 15.00

Prep Method: E300P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	395	4.98	mg/kg	12.13.17 18.19		1

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3035623

Date Prep: 12.11.17 11.00

Prep Method: TX1005P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.12.17 05.36	U	1
Diesel Range Organics (DRO)	C10C28DRO	17.9	15.0	mg/kg	12.12.17 05.36		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	12.12.17 05.36	U	1
Total TPH	PHC635	17.9	15.0	mg/kg	12.12.17 05.36		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	85	%	70-135	12.12.17 05.36		
o-Terphenyl	84-15-1	85	%	70-135	12.12.17 05.36		



Certificate of Analytical Results 570669



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Lost Tank 35 State 007

Sample Id: **Sp-1@5'**
Lab Sample Id: 570669-003

Matrix: Soil
Date Collected: 12.07.17 10.21

Date Received: 12.08.17 14.30

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 12.14.17 16.00

Basis: Wet Weight

Seq Number: 3036005

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	12.15.17 15.02	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	12.15.17 15.02	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	12.15.17 15.02	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	12.15.17 15.02	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	12.15.17 15.02	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	12.15.17 15.02	U	1
Total BTEX		<0.00201	0.00201	mg/kg	12.15.17 15.02	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	90	%	80-120	12.15.17 15.02		
1,4-Difluorobenzene	540-36-3	89	%	80-120	12.15.17 15.02		



Certificate of Analytical Results 570669



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Lost Tank 35 State 007

Sample Id: **Sp-1@6'**
Lab Sample Id: 570669-004

Matrix: Soil
Date Collected: 12.07.17 10.25

Date Received: 12.08.17 14.30

Analytical Method: Chloride by EPA 300

Tech: LRI

Analyst: OJS

Seq Number: 3035884

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Date Prep: 12.13.17 15.00

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	539	4.96	mg/kg	12.13.17 18.25		1

Analytical Method: TPH By SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3035623

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

Date Prep: 12.11.17 11.00

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.12.17 05.59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	12.12.17 05.59	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	12.12.17 05.59	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	12.12.17 05.59	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	76	%	70-135	12.12.17 05.59		
o-Terphenyl	84-15-1	82	%	70-135	12.12.17 05.59		



Certificate of Analytical Results 570669



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Lost Tank 35 State 007

Sample Id: **Sp-1@6'**
Lab Sample Id: 570669-004

Matrix: Soil
Date Collected: 12.07.17 10.25

Date Received: 12.08.17 14.30

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 12.14.17 16.00

Basis: Wet Weight

Seq Number: 3036005

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	12.15.17 15.47	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	12.15.17 15.47	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	12.15.17 15.47	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	12.15.17 15.47	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	12.15.17 15.47	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	12.15.17 15.47	U	1
Total BTEX		<0.00201	0.00201	mg/kg	12.15.17 15.47	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	87	%	80-120	12.15.17 15.47		
1,4-Difluorobenzene	540-36-3	87	%	80-120	12.15.17 15.47		



Certificate of Analytical Results 570669



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Lost Tank 35 State 007

Sample Id: **Sp-2@6"**
Lab Sample Id: 570669-005

Matrix: Soil
Date Collected: 12.07.17 10.43

Date Received: 12.08.17 14.30

Analytical Method: Chloride by EPA 300
Tech: LRI
Analyst: OJS
Seq Number: 3035884

Date Prep: 12.13.17 15.00

Prep Method: E300P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2920	24.8	mg/kg	12.13.17 18.43		5

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3035623

Date Prep: 12.11.17 11.00

Prep Method: TX1005P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.12.17 06.19	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	12.12.17 06.19	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	12.12.17 06.19	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	12.12.17 06.19	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	76	%	70-135	12.12.17 06.19		
o-Terphenyl	84-15-1	81	%	70-135	12.12.17 06.19		



Certificate of Analytical Results 570669



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Lost Tank 35 State 007

Sample Id: **Sp-2@6"**
Lab Sample Id: 570669-005

Matrix: Soil
Date Collected: 12.07.17 10.43

Date Received: 12.08.17 14.30

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 12.14.17 16.00

Basis: Wet Weight

Seq Number: 3036005

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.15.17 16.06	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.15.17 16.06	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.15.17 16.06	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	12.15.17 16.06	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.15.17 16.06	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.15.17 16.06	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.15.17 16.06	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	91	%	80-120	12.15.17 16.06		
1,4-Difluorobenzene	540-36-3	89	%	80-120	12.15.17 16.06		



Certificate of Analytical Results 570669



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Lost Tank 35 State 007

Sample Id: **Sp-2@2'**
Lab Sample Id: 570669-006

Matrix: Soil
Date Collected: 12.07.17 10.52

Date Received: 12.08.17 14.30

Analytical Method: Chloride by EPA 300
Tech: LRI
Analyst: OJS
Seq Number: 3035884

Prep Method: E300P
% Moisture:
Date Prep: 12.13.17 15.00
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	668	4.96	mg/kg	12.13.17 18.49		1

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3035623

Prep Method: TX1005P
% Moisture:
Date Prep: 12.11.17 11.00
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.12.17 06.39	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	12.12.17 06.39	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	12.12.17 06.39	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	12.12.17 06.39	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	77	%	70-135	12.12.17 06.39		
o-Terphenyl	84-15-1	80	%	70-135	12.12.17 06.39		



Certificate of Analytical Results 570669



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Lost Tank 35 State 007

Sample Id: **Sp-2@2'**
Lab Sample Id: 570669-006

Matrix: Soil
Date Collected: 12.07.17 10.52

Date Received: 12.08.17 14.30

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 12.14.17 16.00

Basis: Wet Weight

Seq Number: 3036005

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.15.17 16.25	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.15.17 16.25	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.15.17 16.25	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.15.17 16.25	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.15.17 16.25	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	12.15.17 16.25	U	1
Total BTEX		<0.00199	0.00199	mg/kg	12.15.17 16.25	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	94	%	80-120	12.15.17 16.25		
1,4-Difluorobenzene	540-36-3	95	%	80-120	12.15.17 16.25		



Certificate of Analytical Results 570669



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Lost Tank 35 State 007

Sample Id: **Sp-3@6"**
Lab Sample Id: 570669-007

Matrix: Soil
Date Collected: 12.07.17 11.09

Date Received: 12.08.17 14.30

Analytical Method: Chloride by EPA 300
Tech: LRI
Analyst: OJS
Seq Number: 3035745

Prep Method: E300P
% Moisture:
Date Prep: 12.12.17 16.10
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1730	25.0	mg/kg	12.13.17 00.29		5

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3035623

Prep Method: TX1005P
% Moisture:
Date Prep: 12.11.17 11.00
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.12.17 06.59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	12.12.17 06.59	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	15.3	15.0	mg/kg	12.12.17 06.59		1
Total TPH	PHC635	15.3	15.0	mg/kg	12.12.17 06.59		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-135	12.12.17 06.59	
o-Terphenyl	84-15-1	91	%	70-135	12.12.17 06.59	



Certificate of Analytical Results 570669



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Lost Tank 35 State 007

Sample Id: **Sp-3@6"**
Lab Sample Id: 570669-007

Matrix: Soil
Date Collected: 12.07.17 11.09

Date Received: 12.08.17 14.30

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 12.14.17 16.00

Basis: Wet Weight

Seq Number: 3036005

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.15.17 16.44	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.15.17 16.44	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.15.17 16.44	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	12.15.17 16.44	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.15.17 16.44	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.15.17 16.44	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.15.17 16.44	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	89	%	80-120	12.15.17 16.44		
4-Bromofluorobenzene	460-00-4	86	%	80-120	12.15.17 16.44		



Certificate of Analytical Results 570669



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Lost Tank 35 State 007

Sample Id: **Sp-3@1'**
Lab Sample Id: 570669-008

Matrix: Soil
Date Collected: 12.07.17 11.12

Date Received: 12.08.17 14.30

Analytical Method: Chloride by EPA 300
Tech: LRI
Analyst: OJS
Seq Number: 3035884

Date Prep: 12.13.17 15.00

Prep Method: E300P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	671	4.92	mg/kg	12.13.17 18.55		1

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3035623

Date Prep: 12.11.17 11.00

Prep Method: TX1005P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	12.12.17 07.18	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	12.12.17 07.18	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<14.9	14.9	mg/kg	12.12.17 07.18	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	12.12.17 07.18	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	95	%	70-135	12.12.17 07.18		
o-Terphenyl	84-15-1	96	%	70-135	12.12.17 07.18		



Certificate of Analytical Results 570669



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Lost Tank 35 State 007

Sample Id: **Sp-3@1'**
Lab Sample Id: 570669-008

Matrix: Soil
Date Collected: 12.07.17 11.12

Date Received: 12.08.17 14.30

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 12.14.17 16.00

Basis: Wet Weight

Seq Number: 3036005

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.15.17 17.14	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.15.17 17.14	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.15.17 17.14	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	12.15.17 17.14	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.15.17 17.14	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.15.17 17.14	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.15.17 17.14	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	93	%	80-120	12.15.17 17.14		
1,4-Difluorobenzene	540-36-3	96	%	80-120	12.15.17 17.14		



Certificate of Analytical Results 570669



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Lost Tank 35 State 007

Sample Id: **Sp-4@6"**
Lab Sample Id: 570669-009

Matrix: Soil
Date Collected: 12.07.17 11.28

Date Received: 12.08.17 14.30

Analytical Method: Chloride by EPA 300
Tech: LRI
Analyst: OJS
Seq Number: 3035745

Prep Method: E300P
% Moisture:
Date Prep: 12.12.17 16.10
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	83.0	24.9	mg/kg	12.13.17 00.35		5

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3035623

Prep Method: TX1005P
% Moisture:
Date Prep: 12.11.17 11.00
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.12.17 07.38	U	1
Diesel Range Organics (DRO)	C10C28DRO	155	15.0	mg/kg	12.12.17 07.38		1
Oil Range Hydrocarbons (ORO)	PHCG2835	55.7	15.0	mg/kg	12.12.17 07.38		1
Total TPH	PHC635	211	15.0	mg/kg	12.12.17 07.38		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	89	%	70-135	12.12.17 07.38		
o-Terphenyl	84-15-1	93	%	70-135	12.12.17 07.38		



Certificate of Analytical Results 570669



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Lost Tank 35 State 007

Sample Id: **Sp-4@6"**
Lab Sample Id: 570669-009

Matrix: Soil
Date Collected: 12.07.17 11.28

Date Received: 12.08.17 14.30

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 12.15.17 16.00

Basis: Wet Weight

Seq Number: 3036149

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	12.16.17 02.40	U	1
Toluene	108-88-3	0.00316	0.00202	mg/kg	12.16.17 02.40		1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	12.16.17 02.40	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	12.16.17 02.40	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	12.16.17 02.40	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	12.16.17 02.40	U	1
Total BTEX		0.00316	0.00202	mg/kg	12.16.17 02.40		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	90	%	80-120	12.16.17 02.40		
1,4-Difluorobenzene	540-36-3	95	%	80-120	12.16.17 02.40		

- 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 **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

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Trinity Oilfield Services & Rentals, LLC

Lost Tank 35 State 007

Analytical Method: Chloride by EPA 300

Seq Number: 3035745

MB Sample Id: 7635858-1-BLK

Matrix: Solid

LCS Sample Id: 7635858-1-BKS

Prep Method: E300P

Date Prep: 12.12.17

LCSD Sample Id: 7635858-1-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	232	93	236	94	90-110	2	20	mg/kg	12.12.17 21:44	

Analytical Method: Chloride by EPA 300

Seq Number: 3035884

MB Sample Id: 7635941-1-BLK

Matrix: Solid

LCS Sample Id: 7635941-1-BKS

Prep Method: E300P

Date Prep: 12.13.17

LCSD Sample Id: 7635941-1-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	226	90	232	93	90-110	3	20	mg/kg	12.13.17 16:26	

Analytical Method: Chloride by EPA 300

Seq Number: 3035745

Parent Sample Id: 570801-002

Matrix: Soil

MS Sample Id: 570801-002 S

Prep Method: E300P

Date Prep: 12.12.17

MSD Sample Id: 570801-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	26.7	249	251	90	242	86	90-110	4	20	mg/kg	12.12.17 22:01	X

Analytical Method: Chloride by EPA 300

Seq Number: 3035745

Parent Sample Id: 570802-006

Matrix: Soil

MS Sample Id: 570802-006 S

Prep Method: E300P

Date Prep: 12.12.17

MSD Sample Id: 570802-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	14.2	249	276	105	271	103	90-110	2	20	mg/kg	12.12.17 23:24	

Analytical Method: Chloride by EPA 300

Seq Number: 3035884

Parent Sample Id: 570669-001

Matrix: Soil

MS Sample Id: 570669-001 S

Prep Method: E300P

Date Prep: 12.13.17

MSD Sample Id: 570669-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1010	248	1230	89	1240	93	90-110	1	20	mg/kg	12.13.17 18:07	X

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



QC Summary 570669

Trinity Oilfield Services & Rentals, LLC

Lost Tank 35 State 007

Analytical Method: Chloride by EPA 300

Seq Number: 3035884

Parent Sample Id: 570809-001

Matrix: Soil

MS Sample Id: 570809-001 S

Prep Method: E300P

Date Prep: 12.13.17

MSD Sample Id: 570809-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	986	250	1170	74	1180	78	90-110	1	20	mg/kg	12.13.17 16:44	X

Analytical Method: TPH By SW8015 Mod

Seq Number: 3035623

MB Sample Id: 7635801-1-BLK

Matrix: Solid

LCS Sample Id: 7635801-1-BKS

Prep Method: TX1005P

Date Prep: 12.11.17

LCSD Sample Id: 7635801-1-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	955	96	883	88	70-135	8	35	mg/kg	12.12.17 03:33	
Diesel Range Organics (DRO)	<15.0	1000	940	94	888	89	70-135	6	35	mg/kg	12.12.17 03:33	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	93		87		81		70-135	%	12.12.17 03:33
o-Terphenyl	98		93		86		70-135	%	12.12.17 03:33

Analytical Method: TPH By SW8015 Mod

Seq Number: 3035623

Parent Sample Id: 570669-001

Matrix: Soil

MS Sample Id: 570669-001 S

Prep Method: TX1005P

Date Prep: 12.11.17

MSD Sample Id: 570669-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	998	903	90	850	85	70-135	6	35	mg/kg	12.12.17 04:36	
Diesel Range Organics (DRO)	80.7	998	951	87	911	83	70-135	4	35	mg/kg	12.12.17 04:36	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	89		84		70-135	%	12.12.17 04:36
o-Terphenyl	90		88		70-135	%	12.12.17 04:36

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



Trinity Oilfield Services & Rentals, LLC

Lost Tank 35 State 007

Analytical Method: BTEX by EPA 8021B

Seq Number: 3036005

MB Sample Id: 7636034-1-BLK

Matrix: Solid

LCS Sample Id: 7636034-1-BKS

Prep Method: SW5030B

Date Prep: 12.14.17

LCSD Sample Id: 7636034-1-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	0.101	101	0.0921	91	70-130	9	35	mg/kg	12.15.17 06:50	
Toluene	<0.00200	0.100	0.0982	98	0.0883	87	70-130	11	35	mg/kg	12.15.17 06:50	
Ethylbenzene	<0.00200	0.100	0.0988	99	0.0911	90	71-129	8	35	mg/kg	12.15.17 06:50	
m,p-Xylenes	<0.00401	0.200	0.189	95	0.174	86	70-135	8	35	mg/kg	12.15.17 06:50	
o-Xylene	<0.00200	0.100	0.0937	94	0.0878	87	71-133	7	35	mg/kg	12.15.17 06:50	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits			Units	Analysis Date	
1,4-Difluorobenzene	90		92		93		80-120			%	12.15.17 06:50	
4-Bromofluorobenzene	83		98		97		80-120			%	12.15.17 06:50	

Analytical Method: BTEX by EPA 8021B

Seq Number: 3036149

MB Sample Id: 7636092-1-BLK

Matrix: Solid

LCS Sample Id: 7636092-1-BKS

Prep Method: SW5030B

Date Prep: 12.15.17

LCSD Sample Id: 7636092-1-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	0.0998	0.0995	100	0.0995	100	70-130	0	35	mg/kg	12.15.17 17:52	
Toluene	<0.00200	0.0998	0.0964	97	0.0942	94	70-130	2	35	mg/kg	12.15.17 17:52	
Ethylbenzene	<0.00200	0.0998	0.0979	98	0.0976	98	71-129	0	35	mg/kg	12.15.17 17:52	
m,p-Xylenes	<0.00399	0.200	0.188	94	0.188	94	70-135	0	35	mg/kg	12.15.17 17:52	
o-Xylene	<0.00200	0.0998	0.0924	93	0.0927	93	71-133	0	35	mg/kg	12.15.17 17:52	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits			Units	Analysis Date	
1,4-Difluorobenzene	95		96		95		80-120			%	12.15.17 17:52	
4-Bromofluorobenzene	84		94		94		80-120			%	12.15.17 17:52	

Analytical Method: BTEX by EPA 8021B

Seq Number: 3036005

Parent Sample Id: 570438-008

Matrix: Soil

MS Sample Id: 570438-008 S

Prep Method: SW5030B

Date Prep: 12.14.17

MSD Sample Id: 570438-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00202	0.101	0.0763	76	0.100	100	70-130	27	35	mg/kg	12.15.17 07:27	
Toluene	<0.00202	0.101	0.0741	73	0.0929	93	70-130	23	35	mg/kg	12.15.17 07:27	
Ethylbenzene	<0.00202	0.101	0.0782	77	0.0902	90	71-129	14	35	mg/kg	12.15.17 07:27	
m,p-Xylenes	<0.00403	0.202	0.151	75	0.172	86	70-135	13	35	mg/kg	12.15.17 07:27	
o-Xylene	<0.00202	0.101	0.0800	79	0.0861	86	71-133	7	35	mg/kg	12.15.17 07:27	
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits			Units	Analysis Date	
1,4-Difluorobenzene			89		94		80-120			%	12.15.17 07:27	
4-Bromofluorobenzene			94		95		80-120			%	12.15.17 07:27	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery

$[D] = 100 * (C - A) / B$
 $RPD = 200 * | (C - E) / (C + E) |$
 $[D] = 100 * (C) / [B]$

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



Trinity Oilfield Services & Rentals, LLC

Lost Tank 35 State 007

Analytical Method: BTEX by EPA 8021B

Seq Number: 3036149

Parent Sample Id: 571133-019

Matrix: Soil

MS Sample Id: 571133-019 S

Prep Method: SW5030B

Date Prep: 12.15.17

MSD Sample Id: 571133-019 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	0.101	0.0862	85	0.0956	96	70-130	10	35	mg/kg	12.15.17 18:29	
Toluene	<0.00201	0.101	0.0856	85	0.0896	90	70-130	5	35	mg/kg	12.15.17 18:29	
Ethylbenzene	<0.00201	0.101	0.0872	86	0.0745	75	71-129	16	35	mg/kg	12.15.17 18:29	
m,p-Xylenes	<0.00402	0.201	0.162	81	0.155	78	70-135	4	35	mg/kg	12.15.17 18:29	
o-Xylene	<0.00201	0.101	0.0826	82	0.0823	82	71-133	0	35	mg/kg	12.15.17 18:29	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	91		117		80-120	%	12.15.17 18:29
4-Bromofluorobenzene	102		90		80-120	%	12.15.17 18:29

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



XENCO Laboratories
Prelogin/Nonconformance Report- Sample Log-In



Client: Trinity Oilfield Services & Rentals, LLC

Date/ Time Received: 12/08/2017 02:30:00 PM

Work Order #: 570669

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

Shawnee Smith

Date: 12/11/2017

Checklist reviewed by:

Holly Taylor

Date: 12/12/2017