

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: Fred Turner Jr. B 0004 NMOCD Reference#: 1RP-4846

Surface Owner: McCasland Ltd. Partnership Mineral Owner: Fee

Unit Letter: "F" (SE/NW) Section: 17 Township: 20S Range: 38E County: Lea GPS Coordinates: 32.574963 N -103.172844 W

Depth to Ground Water: 65' - 70' 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: 10 Soil Remediation Levels (mg/kg): Benzene: 10 BTEX: 50 TPH: ☐ 100 Chloride: ☐ 250
☒ 1,000 ☒ 600
☐ 5,000

Date/Time of Release: 9/29/2017 Type of Release: Crude Oil & Produced Water Approximate Volume of Release: See Below

Background Information:

On September 29, 2017, OXY USA, Inc. (OXY), discovered a release at the Fred Turner Jr. B 0004 well site. Failure of a section of a 2-inch steel production line resulted in the release of approximately 22 barrels (bbls) of crude oil and 30 bbls of produced water. During initial response activities, the production line was repaired, and a vacuum truck was utilized to recover approximately 50 bbls of free-standing liquid. The release affected an area of the caliche well pad and access road measuring approximately 13,000 sq. ft. The release also affected an area of the adjacent pastureland measuring approximately 8,200 sq. ft.

The release was immediately reported to the New Mexico Oil Conservation Division's (NMOCD) Hobbs 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 January 25, 2018, a hand-auger was utilized to collect a series of soil samples from nine (9) locations (SP-1 through SP-9) in the visibly stained area to investigate the extent of impacted soil. The auger holes were advanced to the extent practicable (i.e., until a hard rock layer was encountered) to total depths ranging from approximately 6 inches (SP-7) to 4 feet (SP-1 through SP-6 and SP-9) below ground surface (bgs). Soil samples were collected at 6-inch to 2-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 xylenes (BTEX) concentrations using Environmental Protection Agency (EPA) Methods 300, SW 846-8015 Mod, and SW 846-8021B, 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 D. Chloride field test results are summarized in Table 2.

Proposed Activities:

OXY proposes to conduct the following activities to progress the Fred Turner Jr. B 0004 release site to an NMOCD-approved closure:

- Heavily impacted, visibly stained soil on the caliche well pad and access road will be scraped up and stockpiled on-site, pending final disposition.

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Proposed Activities:

- Excavation in some impacted areas may be hindered by the presence of the on-site well/pump jack and/or active pipes, electrical lines, etc. 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:
 - Maximum depth of 6 inches bgs in the areas represented by auger holes SP-1, SP-3, SP-5, SP-7, SP-8, and SP-9.
 - Maximum depth of 2 feet bgs in the areas represented by auger holes SP-2 and SP-6, as well as in the small pooling area in the southeast corner of the caliche well pad (see Figure 2).
 - Maximum depth of 3.5 feet bgs in the area represented by auger hole SP-4.
- Soil samples will be collected at approximate 50-foot horizontal intervals from the sidewalls of the excavation(s) 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.
- 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.
- All open excavations will be fenced off during periods of inactivity to prevent injury to oilfield personnel, livestock, and/or wildlife.
- Following remediation activities, the excavation will be backfilled with locally acquired, non-impacted material, compacted, and contoured to fit the surrounding topography.
- Disturbed areas in the adjacent pasture will be revegetated with a seed mix acceptable to the landowner at a time conducive to germination.
- Upon completion of the aforementioned corrective actions, a "Remediation Summary & Closure Request" will be submitted to the NMOCD, 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

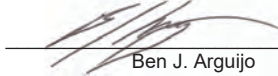
Table 2: Chloride Field Tests

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

Appendix B: Depth-to-Groundwater Data

Appendix C: Photographs

Appendix D: Laboratory Analytical Results

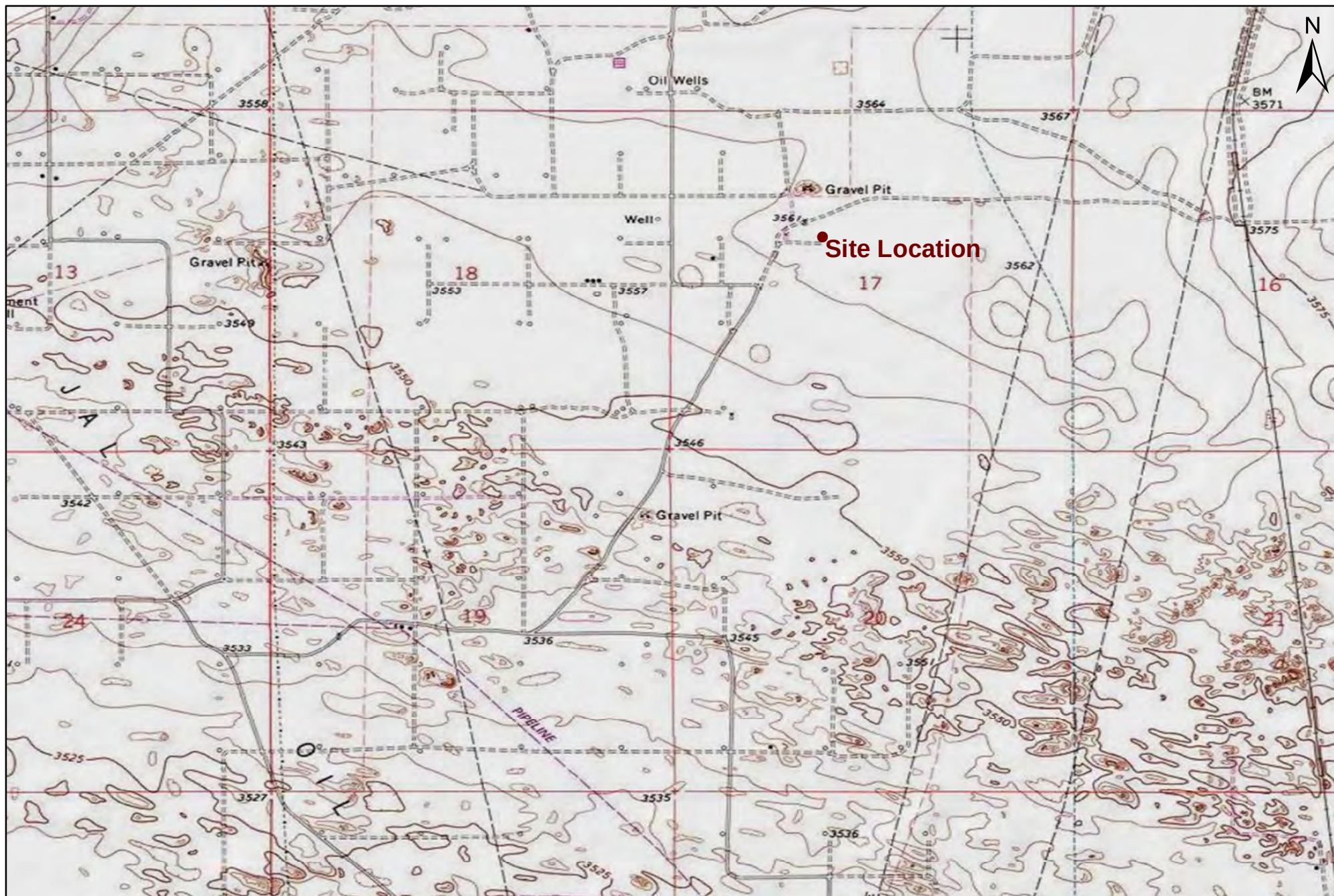
 3/23/2018
Ben J. Arguijo
Project Manager

APPROVED

By Olivia Yu at 2:19 pm, May 07, 2018

NMOCD approves of the delineation completed for 1RP-4846. Bottom and sidewall confirmation samples required for each area with differing depth of excavation.

Figures



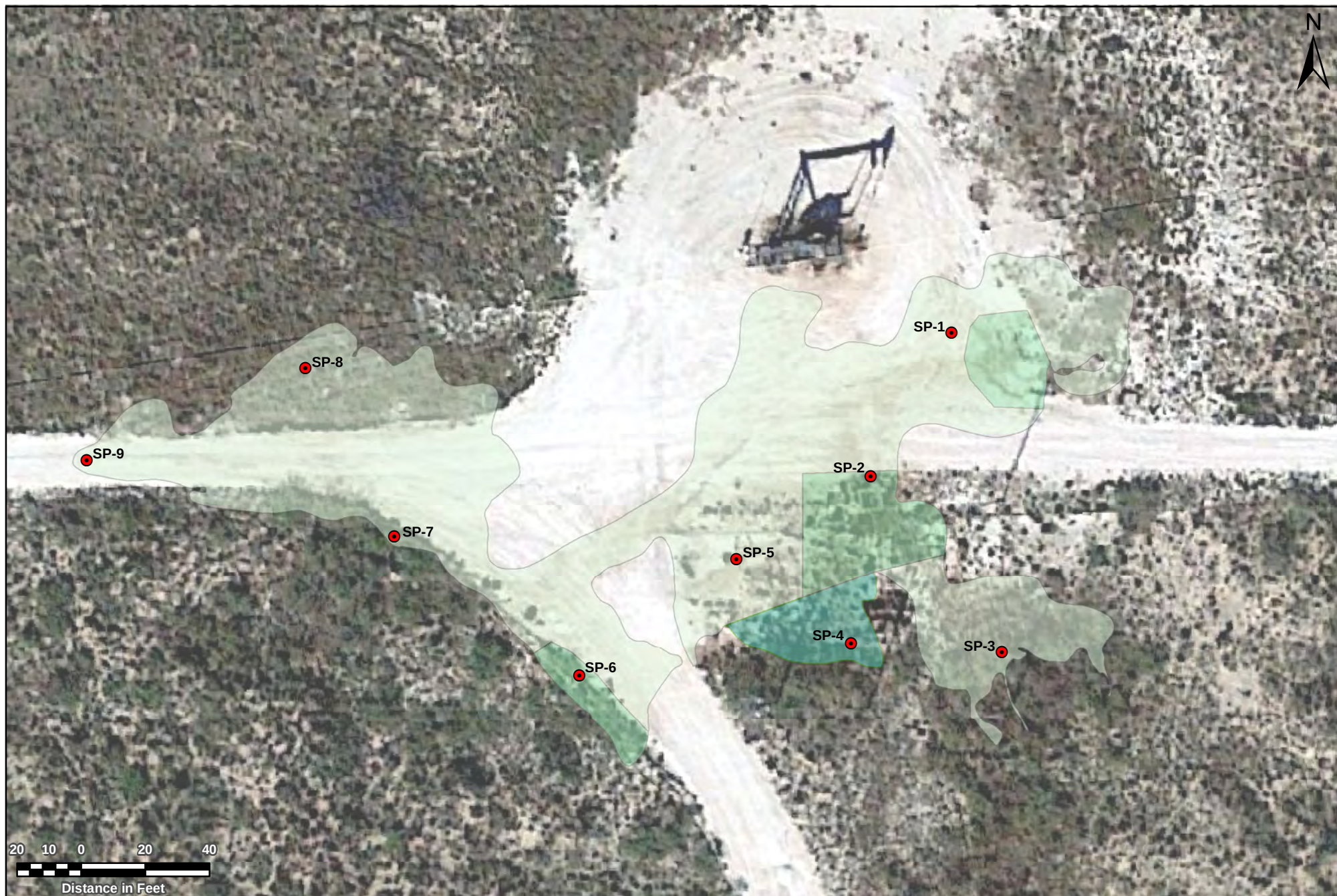
2,000 1,000 0 2,000
Distance in Feet

Figure 1
Site Location Map
OXY USA, Inc.
Fred Turner Jr. B 0004
Lea County, New Mexico
NMOCD Reference #: 1RP-4846



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

Drawn By: BJA	Checked By: CTR
March 22, 2018	Scale: 1" = 2,000'



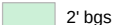
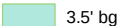
Legend	
Proposed Excavation Depths	
	6" bgs
	2' bgs
	3.5' bgs
	Auger Hole

Figure 2
Sample Location Map
OXY USA, Inc.
Fred Turner Jr. B 0004
Lea County, New Mexico
NMOCD Reference #: 1RP-4846



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

Drawn By: BJA	Checked By: CTR
March 23, 2018	Scale: 1" = 40'

Tables

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

OXY USA, INC.
FRED TURNER JR. B 0004
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE #: 1RP-4846



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	1,000	600
SP-1 @ 6"	6"	10/2/2017	In-Situ	<0.0020	<0.0020	<0.0020	0.0052	0.0050	0.0102	0.0102	<15.0	23.4	<15.0	23.4	25.9
SP-1 @ 2'	2'	10/2/2017	In-Situ	-	-	-	-	-	-	-	-	-	-	-	39.6
SP-1 @ 4'	4'	10/2/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	11.5
SP-2 @ 6"	6"	10/2/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	69.1	<15.0	69.1	712
SP-2 @ 2'	2'	10/2/2017	In-Situ	-	-	-	-	-	-	-	-	-	-	-	87.8
SP-2 @ 4'	4'	10/2/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	17.3	<15.0	17.3	40.6
SP-3 @ 6"	6"	10/2/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	39.8	<15.0	39.8	44.4
SP-3 @ 2"	2'	10/2/2017	In-Situ	-	-	-	-	-	-	-	-	-	-	-	5.56
SP-3 @ 4"	4'	10/2/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<14.9	<14.9	<14.9	<14.9	<4.96
SP-4 @ 6"	6"	10/2/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	35.9	1,240	221	1,500	743
SP-4 @ 2'	2'	10/2/2017	In-Situ	-	-	-	-	-	-	-	-	-	-	-	1,130
SP-4 @ 4'	4'	10/2/2017	In-Situ	<0.0034	<0.0034	<0.0034	<0.0067	<0.0034	<0.0034	<0.0034	<14.9	35.9	<14.9	35.9	18.5
SP-5 @ 6"	6"	10/2/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	72.0	<15.0	72.0	42.5
SP-5 @ 2'	2'	10/2/2017	In-Situ	-	-	-	-	-	-	-	-	-	-	-	56.5
SP-5 @ 4'	4'	10/2/2017	In-Situ	<0.0033	<0.0033	<0.0033	<0.0066	<0.0033	<0.0033	<0.0033	<15.0	96.3	18.3	115	72.4
SP-6 @ 6"	6"	10/2/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	72.7	<15.0	72.7	1,600
SP-6 @ 2'	2'	10/2/2017	In-Situ	-	-	-	-	-	-	-	-	-	-	-	41.1
SP-6 @ 4'	4'	10/2/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	43.0
SP-7 @ 6"	6"	10/2/2017	In-Situ	<0.0034	<0.0034	<0.0034	<0.0068	<0.0034	<0.0034	<0.0034	<15.0	<15.0	<15.0	<15.0	30.8
SP-8 @ 6"	6"	10/2/2017	In-Situ	<0.0033	<0.0033	<0.0033	<0.0066	<0.0033	<0.0033	<0.0033	<15.0	218	42.5	261	17.8
SP-8 @ 2'	2'	10/2/2017	In-Situ	<0.0033	<0.0033	<0.0033	<0.0066	<0.0033	<0.0033	<0.0033	<15.0	108	18.7	127	<4.90
SP-9 @ 6"	6"	10/2/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	<4.91
SP-9 @ 2'	2'	10/2/2017	In-Situ	-	-	-	-	-	-	-	-	-	-	-	21.8
SP-9 @ 4'	4'	10/2/2017	In-Situ	<0.0034	<0.0034	<0.0034	<0.0068	<0.0034	<0.0034	<0.0034	<15.0	<15.0	<15.0	<15.0	43.2

NE = Not established

- = Not analyzed

Concentrations in BOLD exceed NMOCD RRALs

**TABLE 2
CHLORIDE FIELD TESTS**

**OXY USA, INC.
FRED TURNER JR. B 0004
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE #: 1RP-4846**



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"	10/2/2017	In-Situ	<128
SP-1 @ 2'	2'	10/2/2017	In-Situ	<128
SP-1 @ 4'	4'	10/2/2017	In-Situ	<128
SP-2 @ 6"	6"	10/2/2017	In-Situ	524
SP-2 @ 2'	2'	10/2/2017	In-Situ	<128
SP-2 @ 4'	4'	10/2/2017	In-Situ	<128
SP-3 @ 6"	6"	10/2/2017	In-Situ	<128
SP-3 @ 2"	2'	10/2/2017	In-Situ	<128
SP-3 @ 4"	4'	10/2/2017	In-Situ	<128
SP-4 @ 6"	6"	10/2/2017	In-Situ	572
SP-4 @ 2'	2'	10/2/2017	In-Situ	1,248
SP-4 @ 4'	4'	10/2/2017	In-Situ	<128
SP-5 @ 6"	6"	10/2/2017	In-Situ	<128
SP-5 @ 2'	2'	10/2/2017	In-Situ	<128
SP-5 @ 4'	4'	10/2/2017	In-Situ	<128
SP-6 @ 6"	6"	10/2/2017	In-Situ	1,568
SP-6 @ 2'	2'	10/2/2017	In-Situ	<128
SP-6 @ 4'	4'	10/2/2017	In-Situ	<128
SP-7 @ 6"	6"	10/2/2017	In-Situ	<128
SP-8 @ 6"	6"	10/2/2017	In-Situ	<128
SP-8 @ 2'	2'	10/2/2017	In-Situ	<128
SP-9 @ 6"	6"	10/2/2017	In-Situ	<128
SP-9 @ 2'	2'	10/2/2017	In-Situ	<128
SP-9 @ 4'	4'	10/2/2017	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

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	P.O. Box 4294, Houston, TX 77210	Telephone No.	(575)390-2828
Facility Name	Fred Turner JR B 0004	Facility Type	P&E

Surface Owner	McCasland Ltd. Partnership	Mineral Owner	Fee	API No.	30-025-07780
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	17	20S	38E	1970	N	1990	W	Lea

Latitude 32.574963 Longitude -103.172844 NAD83

NATURE OF RELEASE

Type of Release	Crude Oil & Produced water	Volume of Release	22 bbls Crude Oil & 30 bbls Produced Water	Volume Recovered	50 bbls
Source of Release	2-Inch Steel Production Line	Date and Hour of Occurrence	9/29/2017, Time Unknown	Date and Hour of Discovery	9/29/2017, 6:30 AM
Was Immediate Notice Given?	☒ Yes ☐ No ☐ Not Required	If YES, To Whom?	Olivia Yu - NMOCD; Amber Groves - NMSLO		
By Whom?	Wade Dittrich	Date and Hour	9/29/2017, 7:25 PM		
Was a Watercourse Reached?	☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.			

RECEIVED

By Olivia Yu at 8:04 am, Oct 18, 2017

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

A 2-inch steel production line failed, causing a release of crude oil and produced water. The affected section of steel line has been replaced.

Describe Area Affected and Cleanup Action Taken.*

During initial response activities, a vacuum truck was utilized to recover free-standing liquid. The released fluid affected an area of caliche well pad and access road measuring approximately 13,000 sq. ft. The release also affected an area of the adjacent pasture measuring approximately 8,200 sq. ft. Remediation of the impacted areas will be conducted in accordance with NMOCD and NMSLO guidelines.

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:	Environmental Coordinator		
E-mail Address:	wade_dittrich@oxy.com		
Date:	10/16/2017	Phone:	(575) 390-2828
OIL CONSERVATION DIVISION		Approved by Environmental Specialist:	
Approval Date:		10/18/2017	Expiration Date:
Conditions of Approval:		Attached ☒	
see attached directive			

* Attach Additional Sheets If Necessary

1RP-4846

nOY1729129537

pOY1729130036

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 Q Q			Sec	Tws	Rng	X	Y	Distance	Depth	Depth	Water
				64	16	4							Well	Water	Column
L 02109	L	LE		2	4	2	18	20S	38E	670803	3605719*	712	124	50	74
L 02125	L	LE		2	4	3	08	20S	38E	671593	3606538	900	120		
L 02124	R	L	LE	1	3	3	08	20S	38E	671190	3606531*	945	131		
L 02124 POD2	L	LE		2	3	3	08	20S	38E	671190	3606531	945	122	70	52
L 00438 POD6	L	LE		1	2	3	08	20S	38E	671385	3606941*	1305	125	90	35
L 00407 POD4	L	LE		4	2	4	07	20S	38E	670781	3606727*	1308	136	72	64
L 00438 POD7	L	LE		1	1	4	08	20S	38E	671788	3606948	1335	123		
L 00407 S	L	LE		2	2	4	07	20S	38E	670781	3606927*	1478	134	66	68
L 00407 S	R	L	LE	2	2	4	07	20S	38E	670781	3606927*	1478	134	66	68
L 03799	L	LE		1	2	4	08	20S	38E	672190	3606955*	1478	83		
L 03800	L	LE		1	2	4	08	20S	38E	672190	3606955*	1478	103		
L 00407 POD5	L	LE		1	2	4	07	20S	38E	670581	3606927*	1586	136	64	72

Average Depth to Water: **68 feet**

Minimum Depth: **50 feet**

Maximum Depth: **90 feet**

Record Count: 12

UTM NAD83 Radius Search (in meters):

Easting (X): 671511.3

Northing (Y): 3605641.59

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.

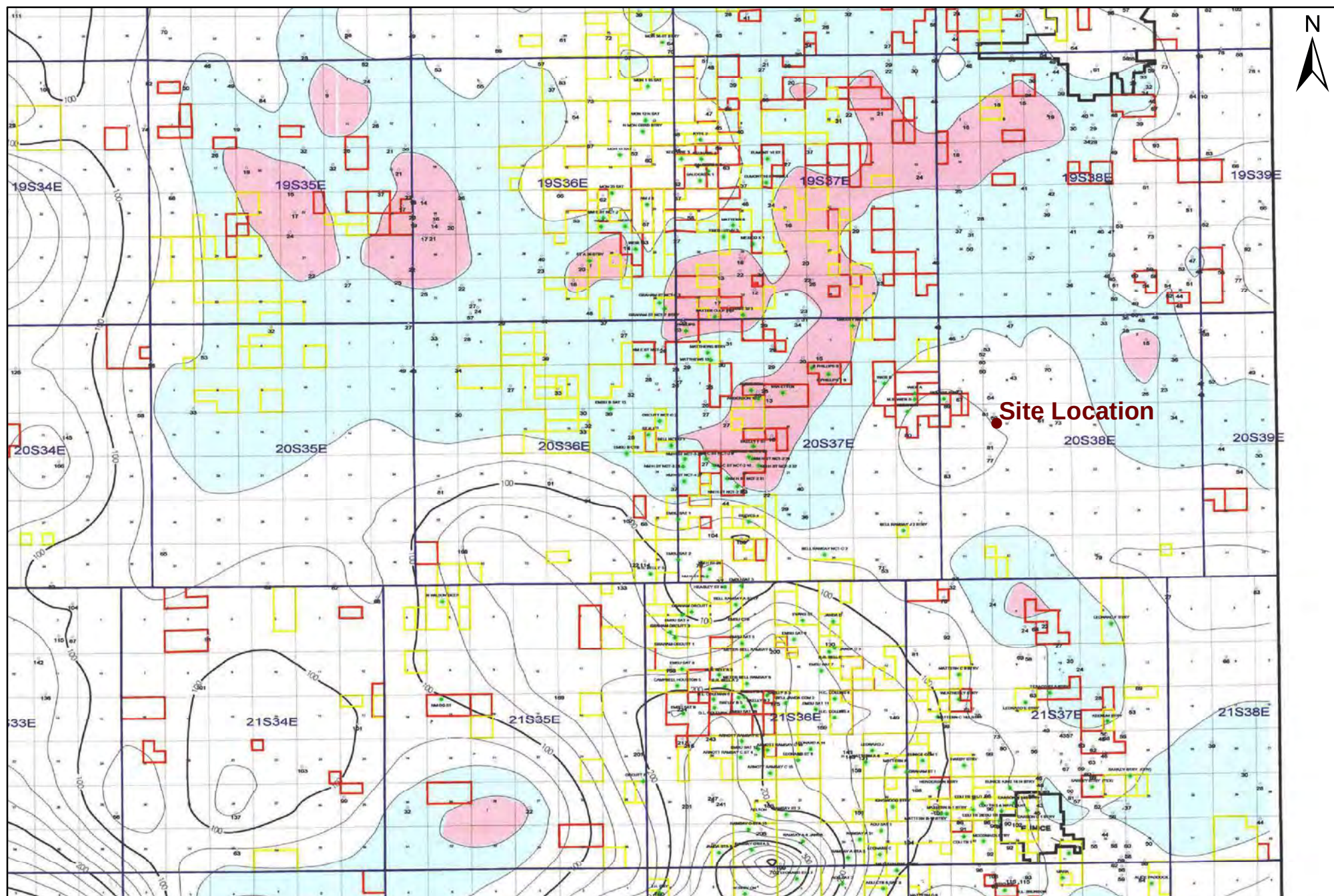


Figure 3
Depth-to-Groundwater Trend Map
OXY USA, Inc.
Fred Turner Jr. B 0004
Lea County, New Mexico
NMOCD Reference #: 1RP-4846



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

Drawn By: BJA	Checked By: CTR
March 22, 2018	Not To Scale

Appendix C

Photographs

OXY USA, Inc. – Fred Turner Jr. B 0004
Unit Letter “F” (SE/NW), Section 17, Township 20S, Range 38E



Fred Turner Jr. B 0004 – Release (Looking East-Northeast)



Fred Turner Jr. B 0004 – Release (Looking Northwest)

OXY USA, Inc. – Fred Turner Jr. B 0004
Unit Letter “F” (SE/NW), Section 17, Township 20S, Range 38E



Fred Turner Jr. B 0004 – Release (Looking North)



Fred Turner Jr. B 0004 – Release (Looking Southeast)

OXY USA, Inc. – Fred Turner Jr. B 0004
Unit Letter “F” (SE/NW), Section 17, Township 20S, Range 38E



Fred Turner Jr. B 0004 – Release (Looking South-Southeast)



Fred Turner Jr. B 0004 – Release (Looking West-Southwest)

OXY USA, Inc. – Fred Turner Jr. B 0004
Unit Letter “F” (SE/NW), Section 17, Township 20S, Range 38E



Fred Turner Jr. B 0004 – Release (Looking West-Southwest)



Fred Turner Jr. B 0004 – Release (Looking Southwest)

OXY USA, Inc. – Fred Turner Jr. B 0004
Unit Letter “F” (SE/NW), Section 17, Township 20S, Range 38E



Fred Turner Jr. B 0004 – Release (Looking East-Southeast)



Fred Turner Jr. B 0004 – Release (Looking Southeast)

OXY USA, Inc. – Fred Turner Jr. B 0004
Unit Letter “F” (SE/NW), Section 17, Township 20S, Range 38E



Fred Turner Jr. B 0004 – Release (Looking West)



Fred Turner Jr. B 0004 – Release (Looking West-Northwest)

OXY USA, Inc. – Fred Turner Jr. B 0004
Unit Letter “F” (SE/NW), Section 17, Township 20S, Range 38E



Fred Turner Jr. B 0004 – Release (Looking West-Southwest)



Fred Turner Jr. B 0004 – Release (Looking South-Southwest)

OXY USA, Inc. – Fred Turner Jr. B 0004
Unit Letter “F” (SE/NW), Section 17, Township 20S, Range 38E



Fred Turner Jr. B 0004 – Release (Looking Southwest)



Fred Turner Jr. B 0004 – Release (Looking West-Southwest)

OXY USA, Inc. – Fred Turner Jr. B 0004
Unit Letter “F” (SE/NW), Section 17, Township 20S, Range 38E



Fred Turner Jr. B 0004 – Release (Looking East)



Fred Turner Jr. B 0004 – Release (Looking East-Northeast)

OXY USA, Inc. – Fred Turner Jr. B 0004
Unit Letter “F” (SE/NW), Section 17, Township 20S, Range 38E



Fred Turner Jr. B 0004 – Release (Looking Southwest)



Fred Turner Jr. B 0004 – Release (Looking South)

OXY USA, Inc. – Fred Turner Jr. B 0004
Unit Letter “F” (SE/NW), Section 17, Township 20S, Range 38E



Fred Turner Jr. B 0004 – Release (Looking South)



Fred Turner Jr. B 0004 – Release (Looking Southeast)

OXY USA, Inc. – Fred Turner Jr. B 0004
Unit Letter “F” (SE/NW), Section 17, Township 20S, Range 38E



Fred Turner Jr. B 0004 – Release (Looking Southeast)



Fred Turner Jr. B 0004 – Release (Looking Southeast)

Appendix D

Laboratory Analytical Reports



Certificate of Analysis Summary 565000

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: Fred Turner Jr B 0004



Project Id:

Contact: Ben Arguijo

Project Location:

Date Received in Lab: Fri Oct-06-17 03:41 pm

Report Date: 30-OCT-17

Project Manager: Holly Taylor

Analysis Requested	Lab Id:	565000-001	565000-002	565000-003	565000-004	565000-005	565000-006
	Field Id:	SP-1 @ 6"	SP-1 @ 2'	SP-1 @ 4'	SP-2 @ 6"	SP-2 @ 2'	SP-2 @ 4'
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Oct-02-17 09:16	Oct-02-17 09:30	Oct-02-17 09:32	Oct-02-17 09:46	Oct-02-17 09:48	Oct-02-17 09:50
BTEX by EPA 8021B	Extracted:	Oct-12-17 11:00		Oct-12-17 11:00	Oct-12-17 11:00		Oct-12-17 11:00
	Analyzed:	Oct-12-17 19:18		Oct-12-17 19:37	Oct-12-17 19:56		Oct-12-17 20:15
	Units/RL:	mg/kg RL		mg/kg RL	mg/kg RL		mg/kg RL
Benzene		<0.00202 0.00202		<0.00199 0.00199	<0.00200 0.00200		<0.00200 0.00200
Toluene		<0.00202 0.00202		<0.00199 0.00199	<0.00200 0.00200		<0.00200 0.00200
Ethylbenzene		<0.00202 0.00202		<0.00199 0.00199	<0.00200 0.00200		<0.00200 0.00200
m,p-Xylenes		0.00521 0.00403		<0.00398 0.00398	<0.00399 0.00399		<0.00401 0.00401
o-Xylene		0.00498 0.00202		<0.00199 0.00199	<0.00200 0.00200		<0.00200 0.00200
Total Xylenes		0.0102 0.00202		<0.00199 0.00199	<0.00200 0.00200		<0.00200 0.00200
Total BTEX		0.0102 0.00202		<0.00199 0.00199	<0.00200 0.00200		<0.00200 0.00200
Chloride by EPA 300	Extracted:	Oct-23-17 08:00	Oct-23-17 08:00	Oct-23-17 08:00	Oct-23-17 08:00	Oct-23-17 08:00	Oct-23-17 08:00
	Analyzed:	Oct-23-17 10:32	Oct-23-17 10:52	Oct-23-17 10:59	Oct-23-17 11:06	Oct-23-17 11:12	Oct-23-17 11:33
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		25.9 4.90	39.6 4.92	11.5 5.00	712 4.96	87.8 4.98	40.6 4.94
TPH By SW8015 Mod	Extracted:	Oct-10-17 07:00		Oct-10-17 07:00	Oct-25-17 16:00		Oct-25-17 16:00
	Analyzed:	Oct-10-17 15:46		Oct-10-17 16:46	Oct-25-17 21:10		Oct-25-17 21:30
	Units/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
Diesel Range Organics (DRO)		23.4 15.0		<15.0 15.0	69.1 K 15.0		17.3 K 15.0
Oil Range Hydrocarbons (ORO)		<15.0 15.0		<15.0 15.0	29.0 K 15.0		<15.0 15.0
Total TPH		23.4 15.0		<15.0 15.0	98.1 K 15.0		17.3 K 15.0

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

Holly Taylor
Project Manager



Certificate of Analysis Summary 565000

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: Fred Turner Jr B 0004



Project Id:

Contact: Ben Arguijo

Project Location:

Date Received in Lab: Fri Oct-06-17 03:41 pm

Report Date: 30-OCT-17

Project Manager: Holly Taylor

<i>Analysis Requested</i>	<i>Lab Id:</i>	565000-007	565000-008	565000-009	565000-010	565000-011	565000-012
	<i>Field Id:</i>	SP-3 @ 6"	SP-3 @ 2'	SP-3 @ 4'	SP-4 @ 6"	SP-4 @ 2'	SP-4 @ 4'
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Oct-02-17 10:12	Oct-02-17 10:15	Oct-02-17 10:20	Oct-02-17 10:43	Oct-02-17 10:46	Oct-02-17 10:48
BTEX by EPA 8021B	<i>Extracted:</i>	Oct-12-17 11:00		Oct-12-17 15:00	Oct-12-17 15:00		Oct-27-17 10:00
	<i>Analyzed:</i>	Oct-12-17 20:33		Oct-13-17 08:50	Oct-13-17 09:09		Oct-27-17 14:10
	<i>Units/RL:</i>	mg/kg RL		mg/kg RL	mg/kg RL		mg/kg RL
Benzene		<0.00198 0.00198		<0.00202 0.00202	<0.00200 0.00200		<0.00336 0.00336
Toluene		<0.00198 0.00198		<0.00202 0.00202	<0.00200 0.00200		<0.00336 0.00336
Ethylbenzene		<0.00198 0.00198		<0.00202 0.00202	<0.00200 0.00200		<0.00336 0.00336
m,p-Xylenes		<0.00396 0.00396		<0.00403 0.00403	<0.00399 0.00399		<0.00671 0.00671
o-Xylene		<0.00198 0.00198		<0.00202 0.00202	<0.00200 0.00200		<0.00336 0.00336
Total Xylenes		<0.00198 0.00198		<0.00202 0.00202	<0.00200 0.00200		<0.00336 0.00336
Total BTEX		<0.00198 0.00198		<0.00202 0.00202	<0.00200 0.00200		<0.00336 0.00336
Chloride by EPA 300	<i>Extracted:</i>	Oct-23-17 08:00	Oct-23-17 08:00	Oct-23-17 08:00	Oct-23-17 08:00	Oct-23-17 08:00	Oct-23-17 08:00
	<i>Analyzed:</i>	Oct-23-17 11:40	Oct-23-17 11:46	Oct-23-17 11:53	Oct-23-17 12:00	Oct-23-17 12:07	Oct-23-17 12:27
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		44.4 4.94	5.56 4.90	<4.96 4.96	743 4.92	1130 4.97	18.5 4.93
TPH By SW8015 Mod	<i>Extracted:</i>	Oct-10-17 07:00		Oct-25-17 16:00	Oct-25-17 16:00		Oct-25-17 16:00
	<i>Analyzed:</i>	Oct-10-17 17:47		Oct-25-17 22:12	Oct-26-17 10:58		Oct-25-17 22:51
	<i>Units/RL:</i>	mg/kg RL		mg/kg RL	mg/kg RL		mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0		<14.9 14.9	35.9 K 15.0		<14.9 14.9
Diesel Range Organics (DRO)		39.8 15.0		<14.9 14.9	1240 K 15.0		35.9 K 14.9
Oil Range Hydrocarbons (ORO)		<15.0 15.0		<14.9 14.9	221 K 15.0		<14.9 14.9
Total TPH		39.8 15.0		<14.9 14.9	1500 K 15.0		35.9 K 14.9

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Holly Taylor
Project Manager



Certificate of Analysis Summary 565000

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: Fred Turner Jr B 0004



Project Id:

Contact: Ben Arguijo

Project Location:

Date Received in Lab: Fri Oct-06-17 03:41 pm

Report Date: 30-OCT-17

Project Manager: Holly Taylor

<i>Analysis Requested</i>	<i>Lab Id:</i>	565000-013	565000-014	565000-015	565000-016	565000-017	565000-018
	<i>Field Id:</i>	SP-5 @ 6"	SP-5 @ 2'	SP-5 @ 4'	SP-6 @ 6"	SP-6 @ 2'	SP-6 @ 4'
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Oct-02-17 11:05	Oct-02-17 11:09	Oct-02-17 11:25	Oct-02-17 12:03	Oct-02-17 12:05	Oct-02-17 12:07
BTEX by EPA 8021B	<i>Extracted:</i>	Oct-12-17 15:00		Oct-27-17 10:00	Oct-12-17 15:00		Oct-12-17 15:00
	<i>Analyzed:</i>	Oct-13-17 00:38		Oct-27-17 14:29	Oct-13-17 01:34		Oct-13-17 01:53
	<i>Units/RL:</i>	mg/kg RL		mg/kg RL	mg/kg RL		mg/kg RL
Benzene		<0.00200 0.00200		<0.00332 0.00332	<0.00202 0.00202		<0.00198 0.00198
Toluene		<0.00200 0.00200		<0.00332 0.00332	<0.00202 0.00202		<0.00198 0.00198
Ethylbenzene		<0.00200 0.00200		<0.00332 0.00332	<0.00202 0.00202		<0.00198 0.00198
m,p-Xylenes		<0.00399 0.00399		<0.00664 0.00664	<0.00404 0.00404		<0.00396 0.00396
o-Xylene		<0.00200 0.00200		<0.00332 0.00332	<0.00202 0.00202		<0.00198 0.00198
Total Xylenes		<0.00200 0.00200		<0.00332 0.00332	<0.00202 0.00202		<0.00198 0.00198
Total BTEX		<0.00200 0.00200		<0.00332 0.00332	<0.00202 0.00202		<0.00198 0.00198
Chloride by EPA 300	<i>Extracted:</i>	Oct-23-17 08:00	Oct-23-17 08:00	Oct-23-17 08:00	Oct-23-17 08:00	Oct-23-17 08:00	Oct-23-17 08:00
	<i>Analyzed:</i>	Oct-23-17 12:34	Oct-23-17 12:54	Oct-23-17 13:01	Oct-23-17 13:08	Oct-23-17 13:14	Oct-23-17 13:21
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		42.5 4.91	56.5 4.94	72.4 4.92	1600 24.5	41.1 4.98	43.0 4.90
TPH By SW8015 Mod	<i>Extracted:</i>	Oct-25-17 16:00		Oct-25-17 16:00	Oct-25-17 16:00		Oct-25-17 16:00
	<i>Analyzed:</i>	Oct-25-17 23:10		Oct-25-17 23:30	Oct-26-17 00:34		Oct-26-17 00:53
	<i>Units/RL:</i>	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
Diesel Range Organics (DRO)		72.0 K 15.0		96.3 K 15.0	72.7 K 15.0		<15.0 15.0
Oil Range Hydrocarbons (ORO)		<15.0 15.0		18.3 K 15.0	<15.0 15.0		<15.0 15.0
Total TPH		72.0 K 15.0		115 K 15.0	72.7 K 15.0		<15.0 15.0

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Holly Taylor
Project Manager



Certificate of Analysis Summary 565000

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: Fred Turner Jr B 0004



Project Id:

Contact: Ben Arguijo

Project Location:

Date Received in Lab: Fri Oct-06-17 03:41 pm

Report Date: 30-OCT-17

Project Manager: Holly Taylor

<i>Analysis Requested</i>	<i>Lab Id:</i>	565000-019	565000-020	565000-021	565000-022	565000-023	565000-024
	<i>Field Id:</i>	SP-7 @ 6"	SP-8 @ 6"	SP-8 @ 2'	SP-9 @ 6"	SP-9 @ 2'	SP-9 @ 4'
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Oct-02-17 12:25	Oct-02-17 12:40	Oct-02-17 12:42	Oct-02-17 13:16	Oct-02-17 13:28	Oct-02-17 13:34
BTEX by EPA 8021B	<i>Extracted:</i>	Oct-12-17 15:00	Oct-27-17 10:00	Oct-13-17 09:00	Oct-12-17 15:00		Oct-13-17 09:00
	<i>Analyzed:</i>	Oct-13-17 09:28	Oct-27-17 14:48	Oct-13-17 18:18	Oct-13-17 03:46		Oct-13-17 18:36
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		mg/kg RL
Benzene		<0.00340 0.00340	<0.00330 0.00330	<0.00332 0.00332	<0.00202 0.00202		<0.00338 0.00338
Toluene		<0.00340 0.00340	<0.00330 0.00330	<0.00332 0.00332	<0.00202 0.00202		<0.00338 0.00338
Ethylbenzene		<0.00340 0.00340	<0.00330 0.00330	<0.00332 0.00332	<0.00202 0.00202		<0.00338 0.00338
m,p-Xylenes		<0.00680 0.00680	<0.00660 0.00660	<0.00664 0.00664	<0.00404 0.00404		<0.00676 0.00676
o-Xylene		<0.00340 0.00340	<0.00330 0.00330	<0.00332 0.00332	<0.00202 0.00202		<0.00338 0.00338
Total Xylenes		<0.00340 0.00340	<0.00330 0.00330	<0.00332 0.00332	<0.00202 0.00202		<0.00338 0.00338
Total BTEX		<0.00340 0.00340	<0.00330 0.00330	<0.00332 0.00332	<0.00202 0.00202		<0.00338 0.00338
Chloride by EPA 300	<i>Extracted:</i>	Oct-23-17 08:00	Oct-23-17 08:00	Oct-26-17 16:15	Oct-26-17 16:15	Oct-26-17 16:15	Oct-26-17 16:15
	<i>Analyzed:</i>	Oct-23-17 13:28	Oct-23-17 13:35	Oct-27-17 00:53	Oct-27-17 01:13	Oct-27-17 01:20	Oct-27-17 01:27
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		30.8 4.94	17.8 4.95	<4.90 4.90	<4.91 4.91	21.8 4.92	43.2 4.95
TPH By SW8015 Mod	<i>Extracted:</i>	Oct-10-17 07:00	Oct-25-17 16:00	Oct-25-17 16:00	Oct-10-17 07:00		Oct-10-17 07:00
	<i>Analyzed:</i>	Oct-10-17 21:10	Oct-26-17 01:32	Oct-26-17 01:51	Oct-10-17 22:12		Oct-10-17 22:31
	<i>Units/RL:</i>	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
Diesel Range Organics (DRO)		<15.0 15.0	218 K 15.0	108 K 15.0	<15.0 15.0		<15.0 15.0
Oil Range Hydrocarbons (ORO)		<15.0 15.0	42.5 K 15.0	18.7 K 15.0	<15.0 15.0		<15.0 15.0
Total TPH		<15.0 15.0	261 K 15.0	127 K 15.0	<15.0 15.0		<15.0 15.0

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Holly Taylor
Project Manager

Analytical Report 565000
for
Trinity Oilfield Services & Rentals, LLC

Project Manager: Ben Arguijo

Fred Turner Jr B 0004

30-OCT-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)



30-OCT-17

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

Reference: XENCO Report No(s): **565000**
Fred Turner Jr B 0004
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) 565000. 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. 565000 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

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Sample Cross Reference 565000



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fred Turner Jr B 0004

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SP-1 @ 6"	S	10-02-17 09:16		565000-001
SP-1 @ 2'	S	10-02-17 09:30		565000-002
SP-1 @ 4'	S	10-02-17 09:32		565000-003
SP-2 @ 6"	S	10-02-17 09:46		565000-004
SP-2 @ 2'	S	10-02-17 09:48		565000-005
SP-2 @ 4'	S	10-02-17 09:50		565000-006
SP-3 @ 6"	S	10-02-17 10:12		565000-007
SP-3 @ 2'	S	10-02-17 10:15		565000-008
SP-3 @ 4'	S	10-02-17 10:20		565000-009
SP-4 @ 6"	S	10-02-17 10:43		565000-010
SP-4 @ 2'	S	10-02-17 10:46		565000-011
SP-4 @ 4'	S	10-02-17 10:48		565000-012
SP-5 @ 6"	S	10-02-17 11:05		565000-013
SP-5 @ 2'	S	10-02-17 11:09		565000-014
SP-5 @ 4'	S	10-02-17 11:25		565000-015
SP-6 @ 6"	S	10-02-17 12:03		565000-016
SP-6 @ 2'	S	10-02-17 12:05		565000-017
SP-6 @ 4'	S	10-02-17 12:07		565000-018
SP-7 @ 6"	S	10-02-17 12:25		565000-019
SP-8 @ 6"	S	10-02-17 12:40		565000-020
SP-8 @ 2'	S	10-02-17 12:42		565000-021
SP-9 @ 6"	S	10-02-17 13:16		565000-022
SP-9 @ 2'	S	10-02-17 13:28		565000-023
SP-9 @ 4'	S	10-02-17 13:34		565000-024



CASE NARRATIVE

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

Project Name: *Fred Turner Jr B 0004*

Project ID:
Work Order Number(s): 565000

Report Date: 30-OCT-17
Date Received: 10/06/2017

Sample receipt non conformances and comments:

10/12/17 Analyze samples 001, 003, 004, 006, 007, 009, 010, 013, 015, 016, 018-022, and 024 for BTEX per Ben Arguijo.

1.001 Re-issued report due to sample mislabling.

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3030405 BTEX by EPA 8021B

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

Batch: LBA-3030410 BTEX by EPA 8021B

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

Surrogate 1,4-Difluorobenzene recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 565000-022.

Batch: LBA-3030629 BTEX by EPA 8021B

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

Batch: LBA-3031489 Chloride by EPA 300

Lab Sample ID 565000-011 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 565000-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015, -016, -017, -018, -019, -020.

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

Batch: LBA-3031744 BTEX by EPA 8021B

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



Certificate of Analytical Results 565000



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fred Turner Jr B 0004

Sample Id: **SP-1 @ 6"**

Matrix: Soil

Date Received: 10.06.17 15.41

Lab Sample Id: 565000-001

Date Collected: 10.02.17 09.16

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 10.23.17 08.00

Basis: Wet Weight

Seq Number: 3031489

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	25.9	4.90	mg/kg	10.23.17 10.32		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 10.10.17 07.00

Basis: Wet Weight

Seq Number: 3030141

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	10.10.17 15.46	U	1
Diesel Range Organics (DRO)	C10C28DRO	23.4	15.0	mg/kg	10.10.17 15.46		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	10.10.17 15.46	U	1
Total TPH	PHC635	23.4	15.0	mg/kg	10.10.17 15.46		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-135	10.10.17 15.46	
o-Terphenyl	84-15-1	107	%	70-135	10.10.17 15.46	



Certificate of Analytical Results 565000



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fred Turner Jr B 0004

Sample Id: **SP-1 @ 6"**

Matrix: Soil

Date Received: 10.06.17 15.41

Lab Sample Id: 565000-001

Date Collected: 10.02.17 09.16

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 10.12.17 11.00

Basis: Wet Weight

Seq Number: 3030405

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.12.17 19.18	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.12.17 19.18	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.12.17 19.18	U	1
m,p-Xylenes	179601-23-1	0.00521	0.00403	mg/kg	10.12.17 19.18		1
o-Xylene	95-47-6	0.00498	0.00202	mg/kg	10.12.17 19.18		1
Total Xylenes	1330-20-7	0.0102	0.00202	mg/kg	10.12.17 19.18		1
Total BTEX		0.0102	0.00202	mg/kg	10.12.17 19.18		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	99	%	80-120	10.12.17 19.18		
1,4-Difluorobenzene	540-36-3	94	%	80-120	10.12.17 19.18		



Certificate of Analytical Results 565000



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fred Turner Jr B 0004

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

Matrix: Soil

Date Received: 10.06.17 15.41

Lab Sample Id: 565000-002

Date Collected: 10.02.17 09.30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 10.23.17 08.00

Basis: Wet Weight

Seq Number: 3031489

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	39.6	4.92	mg/kg	10.23.17 10.52		1



Certificate of Analytical Results 565000



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fred Turner Jr B 0004

Sample Id: **SP-1 @ 4'**

Matrix: Soil

Date Received: 10.06.17 15.41

Lab Sample Id: 565000-003

Date Collected: 10.02.17 09.32

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 10.23.17 08.00

Basis: Wet Weight

Seq Number: 3031489

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11.5	5.00	mg/kg	10.23.17 10.59		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 10.10.17 07.00

Basis: Wet Weight

Seq Number: 3030141

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	10.10.17 16.46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	10.10.17 16.46	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	10.10.17 16.46	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	10.10.17 16.46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-135	10.10.17 16.46	
o-Terphenyl	84-15-1	108	%	70-135	10.10.17 16.46	



Certificate of Analytical Results 565000



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fred Turner Jr B 0004

Sample Id: **SP-1 @ 4'**

Matrix: Soil

Date Received: 10.06.17 15.41

Lab Sample Id: 565000-003

Date Collected: 10.02.17 09.32

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 10.12.17 11.00

Basis: Wet Weight

Seq Number: 3030405

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.12.17 19.37	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.12.17 19.37	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.12.17 19.37	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.12.17 19.37	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.12.17 19.37	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.12.17 19.37	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.12.17 19.37	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	101	%	80-120	10.12.17 19.37		
4-Bromofluorobenzene	460-00-4	83	%	80-120	10.12.17 19.37		



Certificate of Analytical Results 565000



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fred Turner Jr B 0004

Sample Id: **SP-2 @ 6"**

Matrix: Soil

Date Received: 10.06.17 15.41

Lab Sample Id: 565000-004

Date Collected: 10.02.17 09.46

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 10.23.17 08.00

Basis: Wet Weight

Seq Number: 3031489

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	712	4.96	mg/kg	10.23.17 11.06		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 10.25.17 16.00

Basis: Wet Weight

Seq Number: 3031681

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	10.25.17 21.10	UK	1
Diesel Range Organics (DRO)	C10C28DRO	69.1	15.0	mg/kg	10.25.17 21.10	K	1
Oil Range Hydrocarbons (ORO)	PHCG2835	29.0	15.0	mg/kg	10.25.17 21.10	K	1
Total TPH	PHC635	98.1	15.0	mg/kg	10.25.17 21.10	K	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	10.25.17 21.10	
o-Terphenyl	84-15-1	97	%	70-135	10.25.17 21.10	



Certificate of Analytical Results 565000



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fred Turner Jr B 0004

Sample Id: **SP-2 @ 6"**

Matrix: Soil

Date Received: 10.06.17 15.41

Lab Sample Id: 565000-004

Date Collected: 10.02.17 09.46

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 10.12.17 11.00

Basis: Wet Weight

Seq Number: 3030405

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.12.17 19.56	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.12.17 19.56	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.12.17 19.56	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	10.12.17 19.56	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.12.17 19.56	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.12.17 19.56	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.12.17 19.56	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	91	%	80-120	10.12.17 19.56		
1,4-Difluorobenzene	540-36-3	94	%	80-120	10.12.17 19.56		



Certificate of Analytical Results 565000



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fred Turner Jr B 0004

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

Matrix: Soil

Date Received: 10.06.17 15.41

Lab Sample Id: 565000-005

Date Collected: 10.02.17 09.48

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 10.23.17 08.00

Basis: Wet Weight

Seq Number: 3031489

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	87.8	4.98	mg/kg	10.23.17 11.12		1



Certificate of Analytical Results 565000



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fred Turner Jr B 0004

Sample Id: **SP-2 @ 4'**

Matrix: Soil

Date Received: 10.06.17 15.41

Lab Sample Id: 565000-006

Date Collected: 10.02.17 09.50

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 10.23.17 08.00

Basis: Wet Weight

Seq Number: 3031489

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	40.6	4.94	mg/kg	10.23.17 11.33		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 10.25.17 16.00

Basis: Wet Weight

Seq Number: 3031681

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	10.25.17 21.30	UK	1
Diesel Range Organics (DRO)	C10C28DRO	17.3	15.0	mg/kg	10.25.17 21.30	K	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	10.25.17 21.30	UK	1
Total TPH	PHC635	17.3	15.0	mg/kg	10.25.17 21.30	K	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	10.25.17 21.30	
o-Terphenyl	84-15-1	98	%	70-135	10.25.17 21.30	



Certificate of Analytical Results 565000



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fred Turner Jr B 0004

Sample Id: **SP-2 @ 4'**

Matrix: Soil

Date Received: 10.06.17 15.41

Lab Sample Id: 565000-006

Date Collected: 10.02.17 09.50

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 10.12.17 11.00

Basis: Wet Weight

Seq Number: 3030405

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.12.17 20.15	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.12.17 20.15	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.12.17 20.15	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	10.12.17 20.15	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.12.17 20.15	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.12.17 20.15	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.12.17 20.15	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	99	%	80-120	10.12.17 20.15		
1,4-Difluorobenzene	540-36-3	95	%	80-120	10.12.17 20.15		



Certificate of Analytical Results 565000



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fred Turner Jr B 0004

Sample Id: **SP-3 @ 6"**

Matrix: Soil

Date Received: 10.06.17 15.41

Lab Sample Id: 565000-007

Date Collected: 10.02.17 10.12

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 10.23.17 08.00

Basis: Wet Weight

Seq Number: 3031489

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	44.4	4.94	mg/kg	10.23.17 11.40		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 10.10.17 07.00

Basis: Wet Weight

Seq Number: 3030141

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	10.10.17 17.47	U	1
Diesel Range Organics (DRO)	C10C28DRO	39.8	15.0	mg/kg	10.10.17 17.47		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	10.10.17 17.47	U	1
Total TPH	PHC635	39.8	15.0	mg/kg	10.10.17 17.47		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-135	10.10.17 17.47	
o-Terphenyl	84-15-1	104	%	70-135	10.10.17 17.47	



Certificate of Analytical Results 565000



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fred Turner Jr B 0004

Sample Id: **SP-3 @ 6"**

Matrix: Soil

Date Received: 10.06.17 15.41

Lab Sample Id: 565000-007

Date Collected: 10.02.17 10.12

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 10.12.17 11.00

Basis: Wet Weight

Seq Number: 3030405

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	10.12.17 20.33	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	10.12.17 20.33	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	10.12.17 20.33	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	10.12.17 20.33	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	10.12.17 20.33	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	10.12.17 20.33	U	1
Total BTEX		<0.00198	0.00198	mg/kg	10.12.17 20.33	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	81	%	80-120	10.12.17 20.33		
1,4-Difluorobenzene	540-36-3	80	%	80-120	10.12.17 20.33		



Certificate of Analytical Results 565000



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fred Turner Jr B 0004

Sample Id: **SP-3 @ 2'**

Matrix: Soil

Date Received: 10.06.17 15.41

Lab Sample Id: 565000-008

Date Collected: 10.02.17 10.15

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 10.23.17 08.00

Basis: Wet Weight

Seq Number: 3031489

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5.56	4.90	mg/kg	10.23.17 11.46		1



Certificate of Analytical Results 565000



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fred Turner Jr B 0004

Sample Id: **SP-3 @ 4'**

Matrix: Soil

Date Received: 10.06.17 15.41

Lab Sample Id: 565000-009

Date Collected: 10.02.17 10.20

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 10.23.17 08.00

Basis: Wet Weight

Seq Number: 3031489

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.96	4.96	mg/kg	10.23.17 11.53	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 10.25.17 16.00

Basis: Wet Weight

Seq Number: 3031681

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	10.25.17 22.12	UK	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	10.25.17 22.12	UK	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<14.9	14.9	mg/kg	10.25.17 22.12	UK	1
Total TPH	PHC635	<14.9	14.9	mg/kg	10.25.17 22.12	UK	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	10.25.17 22.12	
o-Terphenyl	84-15-1	98	%	70-135	10.25.17 22.12	



Certificate of Analytical Results 565000



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fred Turner Jr B 0004

Sample Id: **SP-3 @ 4'**

Matrix: Soil

Date Received: 10.06.17 15.41

Lab Sample Id: 565000-009

Date Collected: 10.02.17 10.20

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 10.12.17 15.00

Basis: Wet Weight

Seq Number: 3030410

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.13.17 08.50	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.13.17 08.50	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.13.17 08.50	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	10.13.17 08.50	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.13.17 08.50	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.13.17 08.50	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.13.17 08.50	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	91	%	80-120	10.13.17 08.50		
1,4-Difluorobenzene	540-36-3	95	%	80-120	10.13.17 08.50		



Certificate of Analytical Results 565000



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fred Turner Jr B 0004

Sample Id: **SP-4 @ 6"**

Matrix: Soil

Date Received: 10.06.17 15.41

Lab Sample Id: 565000-010

Date Collected: 10.02.17 10.43

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 10.23.17 08.00

Basis: Wet Weight

Seq Number: 3031489

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	743	4.92	mg/kg	10.23.17 12.00		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 10.25.17 16.00

Basis: Wet Weight

Seq Number: 3031681

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	35.9	15.0	mg/kg	10.26.17 10.58	K	1
Diesel Range Organics (DRO)	C10C28DRO	1240	15.0	mg/kg	10.26.17 10.58	K	1
Oil Range Hydrocarbons (ORO)	PHCG2835	221	15.0	mg/kg	10.26.17 10.58	K	1
Total TPH	PHC635	1500	15.0	mg/kg	10.26.17 10.58	K	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	105	%	70-135	10.26.17 10.58		
o-Terphenyl	84-15-1	95	%	70-135	10.26.17 10.58		



Certificate of Analytical Results 565000



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fred Turner Jr B 0004

Sample Id: **SP-4 @ 6"**

Matrix: Soil

Date Received: 10.06.17 15.41

Lab Sample Id: 565000-010

Date Collected: 10.02.17 10.43

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 10.12.17 15.00

Basis: Wet Weight

Seq Number: 3030410

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.13.17 09.09	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.13.17 09.09	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.13.17 09.09	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	10.13.17 09.09	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.13.17 09.09	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.13.17 09.09	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.13.17 09.09	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	91	%	80-120	10.13.17 09.09		
4-Bromofluorobenzene	460-00-4	92	%	80-120	10.13.17 09.09		



Certificate of Analytical Results 565000



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fred Turner Jr B 0004

Sample Id: **SP-4 @ 2'**

Matrix: Soil

Date Received: 10.06.17 15.41

Lab Sample Id: 565000-011

Date Collected: 10.02.17 10.46

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 10.23.17 08.00

Basis: Wet Weight

Seq Number: 3031489

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1130	4.97	mg/kg	10.23.17 12.07		1



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Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fred Turner Jr B 0004

Sample Id: **SP-4 @ 4'**

Matrix: Soil

Date Received: 10.06.17 15.41

Lab Sample Id: 565000-012

Date Collected: 10.02.17 10.48

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 10.23.17 08.00

Basis: Wet Weight

Seq Number: 3031489

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	18.5	4.93	mg/kg	10.23.17 12.27		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 10.25.17 16.00

Basis: Wet Weight

Seq Number: 3031681

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	10.25.17 22.51	UK	1
Diesel Range Organics (DRO)	C10C28DRO	35.9	14.9	mg/kg	10.25.17 22.51	K	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<14.9	14.9	mg/kg	10.25.17 22.51	UK	1
Total TPH	PHC635	35.9	14.9	mg/kg	10.25.17 22.51	K	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	10.25.17 22.51	
o-Terphenyl	84-15-1	98	%	70-135	10.25.17 22.51	



Certificate of Analytical Results 565000



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fred Turner Jr B 0004

Sample Id: **SP-4 @ 4'**

Matrix: Soil

Date Received: 10.06.17 15.41

Lab Sample Id: 565000-012

Date Collected: 10.02.17 10.48

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 10.27.17 10.00

Basis: Wet Weight

Seq Number: 3031744

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00336	0.00336	mg/kg	10.27.17 14.10	UK	1
Toluene	108-88-3	<0.00336	0.00336	mg/kg	10.27.17 14.10	UK	1
Ethylbenzene	100-41-4	<0.00336	0.00336	mg/kg	10.27.17 14.10	UK	1
m,p-Xylenes	179601-23-1	<0.00671	0.00671	mg/kg	10.27.17 14.10	UK	1
o-Xylene	95-47-6	<0.00336	0.00336	mg/kg	10.27.17 14.10	UK	1
Total Xylenes	1330-20-7	<0.00336	0.00336	mg/kg	10.27.17 14.10	UK	1
Total BTEX		<0.00336	0.00336	mg/kg	10.27.17 14.10	UK	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	100	%	80-120	10.27.17 14.10		
1,4-Difluorobenzene	540-36-3	91	%	80-120	10.27.17 14.10		



Certificate of Analytical Results 565000



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fred Turner Jr B 0004

Sample Id: **SP-5 @ 6"**

Matrix: Soil

Date Received: 10.06.17 15.41

Lab Sample Id: 565000-013

Date Collected: 10.02.17 11.05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 10.23.17 08.00

Basis: Wet Weight

Seq Number: 3031489

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	42.5	4.91	mg/kg	10.23.17 12.34		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 10.25.17 16.00

Basis: Wet Weight

Seq Number: 3031681

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	10.25.17 23.10	UK	1
Diesel Range Organics (DRO)	C10C28DRO	72.0	15.0	mg/kg	10.25.17 23.10	K	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	10.25.17 23.10	UK	1
Total TPH	PHC635	72.0	15.0	mg/kg	10.25.17 23.10	K	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-135	10.25.17 23.10	
o-Terphenyl	84-15-1	93	%	70-135	10.25.17 23.10	



Certificate of Analytical Results 565000



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fred Turner Jr B 0004

Sample Id: **SP-5 @ 6"**

Matrix: Soil

Date Received: 10.06.17 15.41

Lab Sample Id: 565000-013

Date Collected: 10.02.17 11.05

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 10.12.17 15.00

Basis: Wet Weight

Seq Number: 3030410

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.13.17 00.38	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.13.17 00.38	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.13.17 00.38	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	10.13.17 00.38	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.13.17 00.38	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.13.17 00.38	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.13.17 00.38	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	93	%	80-120	10.13.17 00.38		
1,4-Difluorobenzene	540-36-3	97	%	80-120	10.13.17 00.38		



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Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fred Turner Jr B 0004

Sample Id: **SP-5 @ 2'**

Matrix: Soil

Date Received: 10.06.17 15.41

Lab Sample Id: 565000-014

Date Collected: 10.02.17 11.09

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 10.23.17 08.00

Basis: Wet Weight

Seq Number: 3031489

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	56.5	4.94	mg/kg	10.23.17 12.54		1



Certificate of Analytical Results 565000



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fred Turner Jr B 0004

Sample Id: **SP-5 @ 4'**
Lab Sample Id: 565000-015

Matrix: Soil
Date Collected: 10.02.17 11.25

Date Received: 10.06.17 15.41

Analytical Method: Chloride by EPA 300
Tech: MNV
Analyst: MNV
Seq Number: 3031489

Prep Method: E300P
% Moisture:
Date Prep: 10.23.17 08.00
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	72.4	4.92	mg/kg	10.23.17 13.01		1

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3031681

Prep Method: TX1005P
% Moisture:
Date Prep: 10.25.17 16.00
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	10.25.17 23.30	UK	1
Diesel Range Organics (DRO)	C10C28DRO	96.3	15.0	mg/kg	10.25.17 23.30	K	1
Oil Range Hydrocarbons (ORO)	PHCG2835	18.3	15.0	mg/kg	10.25.17 23.30	K	1
Total TPH	PHC635	115	15.0	mg/kg	10.25.17 23.30	K	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	105	%	70-135	10.25.17 23.30		
o-Terphenyl	84-15-1	102	%	70-135	10.25.17 23.30		



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Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fred Turner Jr B 0004

Sample Id: **SP-5 @ 4'**

Matrix: Soil

Date Received: 10.06.17 15.41

Lab Sample Id: 565000-015

Date Collected: 10.02.17 11.25

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 10.27.17 10.00

Basis: Wet Weight

Seq Number: 3031744

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00332	0.00332	mg/kg	10.27.17 14.29	UK	1
Toluene	108-88-3	<0.00332	0.00332	mg/kg	10.27.17 14.29	UK	1
Ethylbenzene	100-41-4	<0.00332	0.00332	mg/kg	10.27.17 14.29	UK	1
m,p-Xylenes	179601-23-1	<0.00664	0.00664	mg/kg	10.27.17 14.29	UK	1
o-Xylene	95-47-6	<0.00332	0.00332	mg/kg	10.27.17 14.29	UK	1
Total Xylenes	1330-20-7	<0.00332	0.00332	mg/kg	10.27.17 14.29	UK	1
Total BTEX		<0.00332	0.00332	mg/kg	10.27.17 14.29	UK	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	93	%	80-120	10.27.17 14.29		
4-Bromofluorobenzene	460-00-4	82	%	80-120	10.27.17 14.29		



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Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fred Turner Jr B 0004

Sample Id: **SP-6 @ 6"**

Matrix: Soil

Date Received: 10.06.17 15.41

Lab Sample Id: 565000-016

Date Collected: 10.02.17 12.03

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 10.23.17 08.00

Basis: Wet Weight

Seq Number: 3031489

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1600	24.5	mg/kg	10.23.17 13.08		5

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 10.25.17 16.00

Basis: Wet Weight

Seq Number: 3031681

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	10.26.17 00.34	UK	1
Diesel Range Organics (DRO)	C10C28DRO	72.7	15.0	mg/kg	10.26.17 00.34	K	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	10.26.17 00.34	UK	1
Total TPH	PHC635	72.7	15.0	mg/kg	10.26.17 00.34	K	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	10.26.17 00.34	
o-Terphenyl	84-15-1	94	%	70-135	10.26.17 00.34	



Certificate of Analytical Results 565000



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fred Turner Jr B 0004

Sample Id: **SP-6 @ 6"**

Matrix: Soil

Date Received: 10.06.17 15.41

Lab Sample Id: 565000-016

Date Collected: 10.02.17 12.03

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 10.12.17 15.00

Basis: Wet Weight

Seq Number: 3030410

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.13.17 01.34	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.13.17 01.34	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.13.17 01.34	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	10.13.17 01.34	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.13.17 01.34	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.13.17 01.34	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.13.17 01.34	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	99	%	80-120	10.13.17 01.34		
4-Bromofluorobenzene	460-00-4	93	%	80-120	10.13.17 01.34		



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Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fred Turner Jr B 0004

Sample Id: **SP-6 @ 2'**

Matrix: Soil

Date Received: 10.06.17 15.41

Lab Sample Id: 565000-017

Date Collected: 10.02.17 12.05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 10.23.17 08.00

Basis: Wet Weight

Seq Number: 3031489

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	41.1	4.98	mg/kg	10.23.17 13.14		1



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Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fred Turner Jr B 0004

Sample Id: **SP-6 @ 4'**

Matrix: Soil

Date Received: 10.06.17 15.41

Lab Sample Id: 565000-018

Date Collected: 10.02.17 12.07

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 10.23.17 08.00

Basis: Wet Weight

Seq Number: 3031489

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	43.0	4.90	mg/kg	10.23.17 13.21		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 10.25.17 16.00

Basis: Wet Weight

Seq Number: 3031681

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	10.26.17 00.53	UK	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	10.26.17 00.53	UK	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	10.26.17 00.53	UK	1
Total TPH	PHC635	<15.0	15.0	mg/kg	10.26.17 00.53	UK	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	10.26.17 00.53	
o-Terphenyl	84-15-1	98	%	70-135	10.26.17 00.53	



Certificate of Analytical Results 565000



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fred Turner Jr B 0004

Sample Id: **SP-6 @ 4'**

Matrix: Soil

Date Received: 10.06.17 15.41

Lab Sample Id: 565000-018

Date Collected: 10.02.17 12.07

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 10.12.17 15.00

Basis: Wet Weight

Seq Number: 3030410

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	10.13.17 01.53	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	10.13.17 01.53	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	10.13.17 01.53	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	10.13.17 01.53	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	10.13.17 01.53	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	10.13.17 01.53	U	1
Total BTEX		<0.00198	0.00198	mg/kg	10.13.17 01.53	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	85	%	80-120	10.13.17 01.53		
1,4-Difluorobenzene	540-36-3	99	%	80-120	10.13.17 01.53		



Certificate of Analytical Results 565000



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fred Turner Jr B 0004

Sample Id: **SP-7 @ 6"**

Matrix: Soil

Date Received: 10.06.17 15.41

Lab Sample Id: 565000-019

Date Collected: 10.02.17 12.25

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 10.23.17 08.00

Basis: Wet Weight

Seq Number: 3031489

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	30.8	4.94	mg/kg	10.23.17 13.28		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 10.10.17 07.00

Basis: Wet Weight

Seq Number: 3030141

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	10.10.17 21.10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	10.10.17 21.10	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	10.10.17 21.10	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	10.10.17 21.10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-135	10.10.17 21.10	
o-Terphenyl	84-15-1	106	%	70-135	10.10.17 21.10	



Certificate of Analytical Results 565000



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fred Turner Jr B 0004

Sample Id: **SP-7 @ 6"**

Matrix: Soil

Date Received: 10.06.17 15.41

Lab Sample Id: 565000-019

Date Collected: 10.02.17 12.25

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 10.12.17 15.00

Basis: Wet Weight

Seq Number: 3030410

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00340	0.00340	mg/kg	10.13.17 09.28	U	1
Toluene	108-88-3	<0.00340	0.00340	mg/kg	10.13.17 09.28	U	1
Ethylbenzene	100-41-4	<0.00340	0.00340	mg/kg	10.13.17 09.28	U	1
m,p-Xylenes	179601-23-1	<0.00680	0.00680	mg/kg	10.13.17 09.28	U	1
o-Xylene	95-47-6	<0.00340	0.00340	mg/kg	10.13.17 09.28	U	1
Total Xylenes	1330-20-7	<0.00340	0.00340	mg/kg	10.13.17 09.28	U	1
Total BTEX		<0.00340	0.00340	mg/kg	10.13.17 09.28	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	94	%	80-120	10.13.17 09.28		
4-Bromofluorobenzene	460-00-4	97	%	80-120	10.13.17 09.28		



Certificate of Analytical Results 565000



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fred Turner Jr B 0004

Sample Id: **SP-8 @ 6"**

Matrix: Soil

Date Received: 10.06.17 15.41

Lab Sample Id: 565000-020

Date Collected: 10.02.17 12.40

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 10.23.17 08.00

Basis: Wet Weight

Seq Number: 3031489

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	17.8	4.95	mg/kg	10.23.17 13.35		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 10.25.17 16.00

Basis: Wet Weight

Seq Number: 3031681

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	10.26.17 01.32	UK	1
Diesel Range Organics (DRO)	C10C28DRO	218	15.0	mg/kg	10.26.17 01.32	K	1
Oil Range Hydrocarbons (ORO)	PHCG2835	42.5	15.0	mg/kg	10.26.17 01.32	K	1
Total TPH	PHC635	261	15.0	mg/kg	10.26.17 01.32	K	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	10.26.17 01.32	
o-Terphenyl	84-15-1	98	%	70-135	10.26.17 01.32	



Certificate of Analytical Results 565000



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fred Turner Jr B 0004

Sample Id: **SP-8 @ 6"**

Matrix: Soil

Date Received: 10.06.17 15.41

Lab Sample Id: 565000-020

Date Collected: 10.02.17 12.40

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 10.27.17 10.00

Basis: Wet Weight

Seq Number: 3031744

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00330	0.00330	mg/kg	10.27.17 14.48	UK	1
Toluene	108-88-3	<0.00330	0.00330	mg/kg	10.27.17 14.48	UK	1
Ethylbenzene	100-41-4	<0.00330	0.00330	mg/kg	10.27.17 14.48	UK	1
m,p-Xylenes	179601-23-1	<0.00660	0.00660	mg/kg	10.27.17 14.48	UK	1
o-Xylene	95-47-6	<0.00330	0.00330	mg/kg	10.27.17 14.48	UK	1
Total Xylenes	1330-20-7	<0.00330	0.00330	mg/kg	10.27.17 14.48	UK	1
Total BTEX		<0.00330	0.00330	mg/kg	10.27.17 14.48	UK	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	93	%	80-120	10.27.17 14.48		
4-Bromofluorobenzene	460-00-4	99	%	80-120	10.27.17 14.48		



Certificate of Analytical Results 565000



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fred Turner Jr B 0004

Sample Id: **SP-8 @ 2'**
Lab Sample Id: 565000-021

Matrix: Soil
Date Collected: 10.02.17 12.42

Date Received: 10.06.17 15.41

Analytical Method: Chloride by EPA 300
Tech: MNV
Analyst: MNV
Seq Number: 3031637

Prep Method: E300P
% Moisture:
Date Prep: 10.26.17 16.15
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.90	4.90	mg/kg	10.27.17 00.53	U	1

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3031681

Prep Method: TX1005P
% Moisture:
Date Prep: 10.25.17 16.00
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	10.26.17 01.51	UK	1
Diesel Range Organics (DRO)	C10C28DRO	108	15.0	mg/kg	10.26.17 01.51	K	1
Oil Range Hydrocarbons (ORO)	PHCG2835	18.7	15.0	mg/kg	10.26.17 01.51	K	1
Total TPH	PHC635	127	15.0	mg/kg	10.26.17 01.51	K	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	109	%	70-135	10.26.17 01.51		
o-Terphenyl	84-15-1	103	%	70-135	10.26.17 01.51		



Certificate of Analytical Results 565000



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fred Turner Jr B 0004

Sample Id: **SP-8 @ 2'**

Matrix: Soil

Date Received: 10.06.17 15.41

Lab Sample Id: 565000-021

Date Collected: 10.02.17 12.42

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 10.13.17 09.00

Basis: Wet Weight

Seq Number: 3030629

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00332	0.00332	mg/kg	10.13.17 18.18	U	1
Toluene	108-88-3	<0.00332	0.00332	mg/kg	10.13.17 18.18	U	1
Ethylbenzene	100-41-4	<0.00332	0.00332	mg/kg	10.13.17 18.18	U	1
m,p-Xylenes	179601-23-1	<0.00664	0.00664	mg/kg	10.13.17 18.18	U	1
o-Xylene	95-47-6	<0.00332	0.00332	mg/kg	10.13.17 18.18	U	1
Total Xylenes	1330-20-7	<0.00332	0.00332	mg/kg	10.13.17 18.18	U	1
Total BTEX		<0.00332	0.00332	mg/kg	10.13.17 18.18	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	105	%	80-120	10.13.17 18.18		
4-Bromofluorobenzene	460-00-4	81	%	80-120	10.13.17 18.18		



Certificate of Analytical Results 565000



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fred Turner Jr B 0004

Sample Id: **SP-9 @ 6"**

Matrix: Soil

Date Received: 10.06.17 15.41

Lab Sample Id: 565000-022

Date Collected: 10.02.17 13.16

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 10.26.17 16.15

Basis: Wet Weight

Seq Number: 3031637

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.91	4.91	mg/kg	10.27.17 01.13	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 10.10.17 07.00

Basis: Wet Weight

Seq Number: 3030141

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	10.10.17 22.12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	10.10.17 22.12	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	10.10.17 22.12	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	10.10.17 22.12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	10.10.17 22.12	
o-Terphenyl	84-15-1	98	%	70-135	10.10.17 22.12	



Certificate of Analytical Results 565000



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fred Turner Jr B 0004

Sample Id: **SP-9 @ 6"**

Matrix: Soil

Date Received: 10.06.17 15.41

Lab Sample Id: 565000-022

Date Collected: 10.02.17 13.16

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 10.12.17 15.00

Basis: Wet Weight

Seq Number: 3030410

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.13.17 03.46	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.13.17 03.46	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.13.17 03.46	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	10.13.17 03.46	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.13.17 03.46	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.13.17 03.46	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.13.17 03.46	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	128	%	80-120	10.13.17 03.46	**	
4-Bromofluorobenzene	460-00-4	81	%	80-120	10.13.17 03.46		



Certificate of Analytical Results 565000



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fred Turner Jr B 0004

Sample Id: **SP-9 @ 2'**

Matrix: Soil

Date Received: 10.06.17 15.41

Lab Sample Id: 565000-023

Date Collected: 10.02.17 13.28

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 10.26.17 16.15

Basis: Wet Weight

Seq Number: 3031637

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	21.8	4.92	mg/kg	10.27.17 01.20		1



Certificate of Analytical Results 565000



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fred Turner Jr B 0004

Sample Id: **SP-9 @ 4'**

Matrix: Soil

Date Received: 10.06.17 15.41

Lab Sample Id: 565000-024

Date Collected: 10.02.17 13.34

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 10.26.17 16.15

Basis: Wet Weight

Seq Number: 3031637

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	43.2	4.95	mg/kg	10.27.17 01.27		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 10.10.17 07.00

Basis: Wet Weight

Seq Number: 3030141

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	10.10.17 22.31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	10.10.17 22.31	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	10.10.17 22.31	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	10.10.17 22.31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	10.10.17 22.31	
o-Terphenyl	84-15-1	104	%	70-135	10.10.17 22.31	



Certificate of Analytical Results 565000



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fred Turner Jr B 0004

Sample Id: **SP-9 @ 4'**

Matrix: Soil

Date Received: 10.06.17 15.41

Lab Sample Id: 565000-024

Date Collected: 10.02.17 13.34

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 10.13.17 09.00

Basis: Wet Weight

Seq Number: 3030629

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00338	0.00338	mg/kg	10.13.17 18.36	U	1
Toluene	108-88-3	<0.00338	0.00338	mg/kg	10.13.17 18.36	U	1
Ethylbenzene	100-41-4	<0.00338	0.00338	mg/kg	10.13.17 18.36	U	1
m,p-Xylenes	179601-23-1	<0.00676	0.00676	mg/kg	10.13.17 18.36	U	1
o-Xylene	95-47-6	<0.00338	0.00338	mg/kg	10.13.17 18.36	U	1
Total Xylenes	1330-20-7	<0.00338	0.00338	mg/kg	10.13.17 18.36	U	1
Total BTEX		<0.00338	0.00338	mg/kg	10.13.17 18.36	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	116	%	80-120	10.13.17 18.36		
1,4-Difluorobenzene	540-36-3	114	%	80-120	10.13.17 18.36		

- 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

Fred Turner Jr B 0004

Analytical Method: Chloride by EPA 300

Seq Number: 3031489

MB Sample Id: 7633253-1-BLK

Matrix: Solid

LCS Sample Id: 7633253-1-BKS

Prep Method: E300P

Date Prep: 10.23.17

LCSD Sample Id: 7633253-1-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	243	97	243	97	90-110	0	20	mg/kg	10.23.17 09:46	

Analytical Method: Chloride by EPA 300

Seq Number: 3031637

MB Sample Id: 7633298-1-BLK

Matrix: Solid

LCS Sample Id: 7633298-1-BKS

Prep Method: E300P

Date Prep: 10.26.17

LCSD Sample Id: 7633298-1-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	239	96	239	96	90-110	0	20	mg/kg	10.27.17 00:40	

Analytical Method: Chloride by EPA 300

Seq Number: 3031489

Parent Sample Id: 565000-001

Matrix: Soil

MS Sample Id: 565000-001 S

Prep Method: E300P

Date Prep: 10.23.17

MSD Sample Id: 565000-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	25.9	245	266	98	266	98	90-110	0	20	mg/kg	10.23.17 10:39	

Analytical Method: Chloride by EPA 300

Seq Number: 3031489

Parent Sample Id: 565000-011

Matrix: Soil

MS Sample Id: 565000-011 S

Prep Method: E300P

Date Prep: 10.23.17

MSD Sample Id: 565000-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1130	249	1310	72	1310	72	90-110	0	20	mg/kg	10.23.17 12:13	X

Analytical Method: Chloride by EPA 300

Seq Number: 3031637

Parent Sample Id: 565000-021

Matrix: Soil

MS Sample Id: 565000-021 S

Prep Method: E300P

Date Prep: 10.26.17

MSD Sample Id: 565000-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<4.90	245	247	101	246	100	90-110	0	20	mg/kg	10.27.17 01:00	

Analytical Method: Chloride by EPA 300

Seq Number: 3031637

Parent Sample Id: 565001-007

Matrix: Soil

MS Sample Id: 565001-007 S

Prep Method: E300P

Date Prep: 10.26.17

MSD Sample Id: 565001-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	24.2	246	262	97	262	97	90-110	0	20	mg/kg	10.27.17 02:35	



QC Summary 565000

Trinity Oilfield Services & Rentals, LLC

Fred Turner Jr B 0004

Analytical Method: TPH By SW8015 Mod

Seq Number: 3030141

MB Sample Id: 7632447-1-BLK

Matrix: Solid

LCS Sample Id: 7632447-1-BKS

Prep Method: TX1005P

Date Prep: 10.10.17

LCSD Sample Id: 7632447-1-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	979	98	948	95	70-135	3	35	mg/kg	10.10.17 15:07	
Diesel Range Organics (DRO)	<15.0	1000	1110	111	1140	114	70-135	3	35	mg/kg	10.10.17 15:07	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date			
1-Chlorooctane	116		107		111		70-135	%	10.10.17 15:07			
o-Terphenyl	117		108		108		70-135	%	10.10.17 15:07			

Analytical Method: TPH By SW8015 Mod

Seq Number: 3031681

MB Sample Id: 7633364-1-BLK

Matrix: Solid

LCS Sample Id: 7633364-1-BKS

Prep Method: TX1005P

Date Prep: 10.25.17

LCSD Sample Id: 7633364-1-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	905	91	936	94	70-135	3	35	mg/kg	10.25.17 19:09	
Diesel Range Organics (DRO)	<15.0	1000	1050	105	1100	110	70-135	5	35	mg/kg	10.25.17 19:09	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date			
1-Chlorooctane	105		98		104		70-135	%	10.25.17 19:09			
o-Terphenyl	105		96		105		70-135	%	10.25.17 19:09			

Analytical Method: TPH By SW8015 Mod

Seq Number: 3030141

Parent Sample Id: 565000-001

Matrix: Soil

MS Sample Id: 565000-001 S

Prep Method: TX1005P

Date Prep: 10.10.17

MSD Sample Id: 565000-001 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	972	97	967	97	70-135	1	35	mg/kg	10.10.17 16:07	
Diesel Range Organics (DRO)	23.4	998	1140	112	1130	111	70-135	1	35	mg/kg	10.10.17 16:07	
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date			
1-Chlorooctane			110		103		70-135	%	10.10.17 16:07			
o-Terphenyl			105		97		70-135	%	10.10.17 16:07			



QC Summary 565000

Trinity Oilfield Services & Rentals, LLC

Fred Turner Jr B 0004

Analytical Method: TPH By SW8015 Mod

Seq Number: 3031681

Parent Sample Id: 565000-004

Matrix: Soil

MS Sample Id: 565000-004 S

Prep Method: TX1005P

Date Prep: 10.25.17

MSD Sample Id: 565000-004 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	999	973	97	971	97	70-135	0	35	mg/kg	10.25.17 20:08	
Diesel Range Organics (DRO)	69.1	999	1050	98	1040	97	70-135	1	35	mg/kg	10.25.17 20:08	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	100		95		70-135	%	10.25.17 20:08
o-Terphenyl	98		96		70-135	%	10.25.17 20:08

Analytical Method: BTEX by EPA 8021B

Seq Number: 3030405

MB Sample Id: 7632585-1-BLK

Matrix: Solid

LCS Sample Id: 7632585-1-BKS

Prep Method: SW5030B

Date Prep: 10.12.17

LCSD Sample Id: 7632585-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00202	0.101	0.0864	86	0.0968	97	70-130	11	35	mg/kg	10.12.17 12:23	
Toluene	<0.00202	0.101	0.0904	90	0.100	100	70-130	10	35	mg/kg	10.12.17 12:23	
Ethylbenzene	<0.00202	0.101	0.0895	89	0.100	100	71-129	11	35	mg/kg	10.12.17 12:23	
m,p-Xylenes	<0.00403	0.202	0.180	89	0.202	101	70-135	12	35	mg/kg	10.12.17 12:23	
o-Xylene	<0.00202	0.101	0.0894	89	0.101	101	71-133	12	35	mg/kg	10.12.17 12:23	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	96		95		98		80-120	%	10.12.17 12:23
4-Bromofluorobenzene	89		98		96		80-120	%	10.12.17 12:23

Analytical Method: BTEX by EPA 8021B

Seq Number: 3030410

MB Sample Id: 7632587-1-BLK

Matrix: Solid

LCS Sample Id: 7632587-1-BKS

Prep Method: SW5030B

Date Prep: 10.12.17

LCSD Sample Id: 7632587-1-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	0.0842	84	0.0869	87	70-130	3	35	mg/kg	10.12.17 21:47	
Toluene	<0.00200	0.100	0.0887	89	0.0908	91	70-130	2	35	mg/kg	10.12.17 21:47	
Ethylbenzene	<0.00200	0.100	0.0899	90	0.0913	91	71-129	2	35	mg/kg	10.12.17 21:47	
m,p-Xylenes	<0.00400	0.200	0.181	91	0.184	92	70-135	2	35	mg/kg	10.12.17 21:47	
o-Xylene	<0.00200	0.100	0.0920	92	0.0930	93	71-133	1	35	mg/kg	10.12.17 21:47	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	95		98		98		80-120	%	10.12.17 21:47
4-Bromofluorobenzene	90		97		98		80-120	%	10.12.17 21:47

Trinity Oilfield Services & Rentals, LLC
Fred Turner Jr B 0004

Analytical Method: BTEX by EPA 8021B

Seq Number: 3030629

MB Sample Id: 7632642-1-BLK

Matrix: Solid

LCS Sample Id: 7632642-1-BKS

Prep Method: SW5030B

Date Prep: 10.13.17

LCSD Sample Id: 7632642-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0994	0.0875	88	0.0816	82	70-130	7	35	mg/kg	10.13.17 10:38	
Toluene	<0.00199	0.0994	0.0985	99	0.0888	89	70-130	10	35	mg/kg	10.13.17 10:38	
Ethylbenzene	<0.00199	0.0994	0.0948	95	0.0879	88	71-129	8	35	mg/kg	10.13.17 10:38	
m,p-Xylenes	<0.00398	0.199	0.192	96	0.178	89	70-135	8	35	mg/kg	10.13.17 10:38	
o-Xylene	<0.00199	0.0994	0.0960	97	0.0898	90	71-133	7	35	mg/kg	10.13.17 10:38	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	97		99		99		80-120	%	10.13.17 10:38
4-Bromofluorobenzene	87		99		101		80-120	%	10.13.17 10:38

Analytical Method: BTEX by EPA 8021B

Seq Number: 3031744

MB Sample Id: 7633415-1-BLK

Matrix: Solid

LCS Sample Id: 7633415-1-BKS

Prep Method: SW5030B

Date Prep: 10.27.17

LCSD Sample Id: 7633415-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00202	0.101	0.103	102	0.0897	90	70-130	14	35	mg/kg	10.27.17 11:38	
Toluene	<0.00202	0.101	0.107	106	0.0932	93	70-130	14	35	mg/kg	10.27.17 11:38	
Ethylbenzene	<0.00202	0.101	0.119	118	0.104	104	71-129	13	35	mg/kg	10.27.17 11:38	
m,p-Xylenes	<0.00404	0.202	0.221	109	0.201	100	70-135	9	35	mg/kg	10.27.17 11:38	
o-Xylene	<0.00202	0.101	0.113	112	0.102	102	71-133	10	35	mg/kg	10.27.17 11:38	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	90		99		92		80-120	%	10.27.17 11:38
4-Bromofluorobenzene	82		110		102		80-120	%	10.27.17 11:38

Analytical Method: BTEX by EPA 8021B

Seq Number: 3030405

Parent Sample Id: 565238-027

Matrix: Soil

MS Sample Id: 565238-027 S

Prep Method: SW5030B

Date Prep: 10.12.17

MSD Sample Id: 565238-027 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00353	0.177	0.116	66	0.129	75	70-130	11	35	mg/kg	10.12.17 13:00	X
Toluene	<0.00353	0.177	0.119	67	0.127	74	70-130	7	35	mg/kg	10.12.17 13:00	X
Ethylbenzene	<0.00353	0.177	0.113	64	0.117	68	71-129	3	35	mg/kg	10.12.17 13:00	X
m,p-Xylenes	<0.00707	0.353	0.226	64	0.234	68	70-135	3	35	mg/kg	10.12.17 13:00	X
o-Xylene	<0.00353	0.177	0.113	64	0.120	70	71-133	6	35	mg/kg	10.12.17 13:00	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	82		105		80-120	%	10.12.17 13:00
4-Bromofluorobenzene	83		97		80-120	%	10.12.17 13:00



QC Summary 565000

Trinity Oilfield Services & Rentals, LLC

Fred Turner Jr B 0004

Analytical Method: BTEX by EPA 8021B

Seq Number: 3030410

Parent Sample Id: 565000-013

Matrix: Soil

MS Sample Id: 565000-013 S

Prep Method: SW5030B

Date Prep: 10.12.17

MSD Sample Id: 565000-013 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	0.0994	0.0791	80	0.0790	79	70-130	0	35	mg/kg	10.12.17 22:25	
Toluene	<0.00199	0.0994	0.0805	81	0.0816	82	70-130	1	35	mg/kg	10.12.17 22:25	
Ethylbenzene	<0.00199	0.0994	0.0781	79	0.0786	79	71-129	1	35	mg/kg	10.12.17 22:25	
m,p-Xylenes	<0.00398	0.199	0.157	79	0.158	79	70-135	1	35	mg/kg	10.12.17 22:25	
o-Xylene	<0.00199	0.0994	0.0799	80	0.0805	81	71-133	1	35	mg/kg	10.12.17 22:25	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		93		80-120	%	10.12.17 22:25
4-Bromofluorobenzene	108		103		80-120	%	10.12.17 22:25

Analytical Method: BTEX by EPA 8021B

Seq Number: 3030629

Parent Sample Id: 565001-013

Matrix: Soil

MS Sample Id: 565001-013 S

Prep Method: SW5030B

Date Prep: 10.13.17

MSD Sample Id: 565001-013 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00348	0.174	0.114	66	0.110	64	70-130	4	35	mg/kg	10.13.17 11:18	X
Toluene	<0.00348	0.174	0.118	68	0.119	69	70-130	1	35	mg/kg	10.13.17 11:18	X
Ethylbenzene	<0.00348	0.174	0.103	59	0.111	65	71-129	7	35	mg/kg	10.13.17 11:18	X
m,p-Xylenes	<0.00697	0.348	0.208	60	0.224	65	70-135	7	35	mg/kg	10.13.17 11:18	X
o-Xylene	<0.00348	0.174	0.108	62	0.114	66	71-133	5	35	mg/kg	10.13.17 11:18	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	108		102		80-120	%	10.13.17 11:18
4-Bromofluorobenzene	92		101		80-120	%	10.13.17 11:18

Analytical Method: BTEX by EPA 8021B

Seq Number: 3031744

Parent Sample Id: 566341-001

Matrix: Soil

MS Sample Id: 566341-001 S

Prep Method: SW5030B

Date Prep: 10.27.17

MSD Sample Id: 566341-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	0.00630	0.101	0.0589	52	0.0644	58	70-130	9	35	mg/kg	10.27.17 12:16	X
Toluene	0.0546	0.101	0.0688	14	0.0685	14	70-130	0	35	mg/kg	10.27.17 12:16	X
Ethylbenzene	0.0235	0.101	0.0584	35	0.0668	43	71-129	13	35	mg/kg	10.27.17 12:16	X
m,p-Xylenes	0.124	0.202	0.132	4	0.141	9	70-135	7	35	mg/kg	10.27.17 12:16	X
o-Xylene	0.0410	0.101	0.0641	23	0.0714	30	71-133	11	35	mg/kg	10.27.17 12:16	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	92		92		80-120	%	10.27.17 12:16
4-Bromofluorobenzene	104		84		80-120	%	10.27.17 12:16



Il past due amounts



CHAIN OF CUSTODY RECORD

Houston: 4143 Greenbriar Dr. Stafford, TX 77477 (281)240-4200 Odessa: 12600 West I-20 East Odessa, TX 79765 (432)563-1800

Page 2 of 3

LAB W.O.#:

565000

Field billable Hrs :

* Container Type Codes

VA Vial Amber ES Encore Sampler
VC Vial Clear TS TerraCore Sampler
VP Vial Pre-preserved AC Air Canister
GA Glass Amber TB Tedlar Bag
GC Glass Clear ZB Zip Lock Bag
PA Plastic Amber PC Plastic Clear
Other _____

Size(s): 2oz, 4oz, 8oz, 16oz, 32oz, 1Gal
40ml, 125 ml, 250 ml, 500 ml, 1L, Other

** Preservative Type Codes

A. None E. HCL I. Ice C.
B. HNO₃ F. MeOH J. MCAA
H₂SO₄ G. Na₂S₂O₅ K. ZnAc&NaOH
D. NaOH H. NaHSO₄ L. Asbc Acid&NaOH
O. _____

^ Matrix Type Codes

GW Ground Water S Soil/Sediment/Solid
WW Waste Water W Wipe
DW Drinking Water A Air
SW Surface Water O Oil
OW Ocean/Sea Water T Tissue
PL Product-Liquid U Urine
PS Product-Solid B Blood
SL Sludge
Other _____

REMARKS

Company:	Trinity Oilfield Services & Rentals, LLC	Phone:	(575)390-7208
Address:	P.O. Box 2587	Fax:	
City:	Hobbs	State:	NM
		Zip:	88241
PM/Attn:	Ben J. Arguijo	Email:	wade.dittrich@oxy.com & ben@trinityoilfieldservices.com
Project ID:	Fred Turner Jr B 0004	PO#:	
Invoice To:	Oxy - Wade Dittrich (575)390-2828	Quote #:	

Sampler Name:	Duskie Bennett	Circle One Event:	Daily Weekly Monthly Quarterly
		Semi-Annual	Annual N/A

Sample #	Sample ID	Collect Date	Collect Time	Matrix Code ^	Field Filtered	Integrity OK (Y/N)	Total # of containers	Example Volatiles by 8260	TPH	BTEX	Chloride	Hold Sample (CALL) on Highest TPH	Run PAH Only
1	SP-4 @ 2'	10/2/17	1046	S			1						
2	SP-4 @ 4'	10/2/17	1048	S			1		X				
3	SP-5 @ 6"	10/2/17	1105	S			1		X				
4	SP-5 @ 2'	10/2/17	1109	S			1						
5	SP-5 @ 4'	10/2/17	1125	S			1		X				
6	SP-6 @ 6"	10/2/17	1203	S			1		X				
7	SP-6 @ 2'	10/2/17	1205	S			1						
8	SP-6 @ 4'	10/2/17	1207	S			1		X				
9	SP-7 @ 6"	10/2/17	1225	S			1		X				
0	SP-8 @ 6"	10/2/17	1240	S			1		X				

Reg. Program / Clean-up Std	STATE for Certs & Regs	QA/QC Level & Certification	EDDs	COC & Labels	Coolers Temp °C	Lab Use Only	
CTLs TRRP DW NPDES LPST DryCln Other:	FL TX GA NC SC NJ PA OK LA AL NM Other:	1 2 3 4 CLP AFCEE QAPP NELAC DoD-ELAP Other:	ADApt SEDD ERPIMS XLS Other:	Match Incomplete Absent Unclear	10.6 2 3	Non-Conformances found? Samples intact upon arrival? Received on Wet Ice? Labeled with proper preservatives? Received within holding time? Custody seals intact? VOCs rec'd w/o headspace? Proper containers used? pH verified-acceptable, excd VOCs? Received on time to meet HTS?	
Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time
1 Duskie Bennett	Trinity	10/6/17	1538	gfrute	m/s Hobbs	10-6-17	1541
2				FRANKE	Xenco	10-7-17	1300
3							
4							

B&A Laboratories: Hobbs 575-392-7550 Dallas 214-902-0300 Houston 281-242-4200 Odessa 432-563-1800 San Antonio 210-509-3334 Pho
FTS Service Centers: Atlanta 770-449-8800 Lakeland 863-646-8526 Tampa 803-543-8099 Philadelphia 610-955-5649 South Carolina 803-543-

Execution of this document by client creates a legal and binding agreement between client and Xenco for analytical and testing services provided by Xenco to client under Xenco's standard terms and shall accrue interest at 1.5% per month until paid in full. All laboratory analytical data and reports generated by Xenco remain the exclusive property of Xenco until invoices for such data are paid in full

Temp: 2.2
CF:(0-6: -0.2°C)
(6-23: +0.2°C)
Corrected Temp: 2

IR ID:R-8

ays, and all past due amounts



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Trinity Oilfield Services & Rentals, LLC

Date/ Time Received: 10/06/2017 03:41:00 PM

Work Order #: 565000

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)?	.6
#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)?	N/A
#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:

Connie Hernandez

Date: 10/09/2017

Checklist reviewed by:

Holly Taylor

Date: 10/10/2017