

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: Federal 12 #14H NMOCD Reference#: 2RP-4488

Surface Owner: US BLM Mineral Owner: US BLM

Unit Letter: P (SE/SE) Section: 12 Township: 22S Range: 31E County: Eddy GPS Coordinates: 32.399528 N -103.723766 W

Depth to Ground Water: 115' Distance to Surface Water Body: ☐ <200' ☐ 200' - 1,000' ☒ >1,000'

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

NMOCD Ranking Score: 0 Soil Remediation Levels (mg/kg): Benzene: 10 BTEX: 50 TPH: ☐ 100 Chloride: ☐ 250
☐ 1,000 ☒ 600
☒ 5,000

Date/Time of Release: 11/10/2017 Type of Release: Crude Oil & Produced Water Approximate Volume of Release: See Below

Background Information:

On November 10, 2017, OXY USA, Inc. (OXY), discovered a release at the Federal 12 #14H tank battery. A gasket seal on the heater treater failed, resulting in the release of approximately 7 barrel (bbls) of produced water and 1 bbl of crude oil, with no recovery. The released fluid and overspray affected an area of the caliche pad measuring approximately 21,220 square feet. An area of the pasture adjacent to the pad measuring approximately 1,245 square feet was also affected. During initial response activities, the gasket was repaired, and the on-site heater treater, pump jack, and other facilities affected by the overspray were pressure-washed and steam-cleaned.

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

Summary of Field Activities:

On December 19 and 20, 2017, a hand-auger was utilized to collect a series of soil samples from twelve (12) locations (SP-1 through SP-12) in the visibly stained area to investigate the extent of impacted soil. The auger holes were advanced to total depths ranging from approximately 6 inches (SP-1, SP-2, SP-5, SP-6, SP-7, SP-9, SP-10, SP-11, and SP-12) to 2 feet (SP-8) below ground surface (bgs). Soil samples were collected at 6-inch to 1-foot vertical intervals and field-screened with a chloride test kit. Confirmation samples were submitted to Xenco Laboratories in Midland, Texas, for analysis of chloride, total petroleum hydrocarbons (TPH), and/or benzene, toluene, ethylbenzene, and total xylene (BTEX) concentrations using Environmental Protection Agency (EPA) Methods 300, SW 846-8015 Mod, and SW 846-8021B, respectively. Laboratory analytical results and field-screens indicated that the release and/or overspray may have commingled with a historical release (or releases), however, vertical delineation 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 Federal 12 #14H release site to an NMOCD- and BLM-approved closure:

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

Trinity Oilfield Services & Rentals, LLC

Environmental Site Summary & Spill Remediation Proposal



Proposed Activities (cont.):

- The excavation will be advanced horizontally until field test readings and/or visual/olfactory senses suggest contaminants of concern are below the NMOCD "Recommended Remediation Action Levels" (RRALs) established for the site (or to the extent practicable). The excavation will be advanced vertically as follows:
 - Maximum depth of 6 inches bgs in the areas represented by auger holes SP-1, SP-2, SP-5, SP-6, SP-7, SP-9, SP-10, SP-11, and SP-12.
 - Maximum depth of 1 foot bgs in the areas represented by auger holes SP-3 and SP-4 and immediately adjacent to the on-site pump jack.
 - Maximum depth of 2 feet bgs in the areas represented by auger hole SP-8.
- Soil samples will be collected at approximate 50-foot horizontal intervals from the sidewalls of the excavation (at floor level) and submitted to Xenco Laboratories for confirmatory analyses of chloride, TPH, and/or BTEX concentrations using the EPA analytical methods listed in the "Summary of Field Activities" above.
- Following remediation activities, the excavation will be backfilled with non-impacted material, compacted, and contoured to fit the surrounding topography.
- Disturbed areas in the adjacent pasture will be seeded with a BLM-approved seed mix at a time conducive to germination.
- Upon completion of the aforementioned corrective actions, a "Remediation Summary & Closure Request" will be submitted to the NMOCD and BLM, 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

 3/29/2018
Ben J. Arguijo
Project Manager

Figures



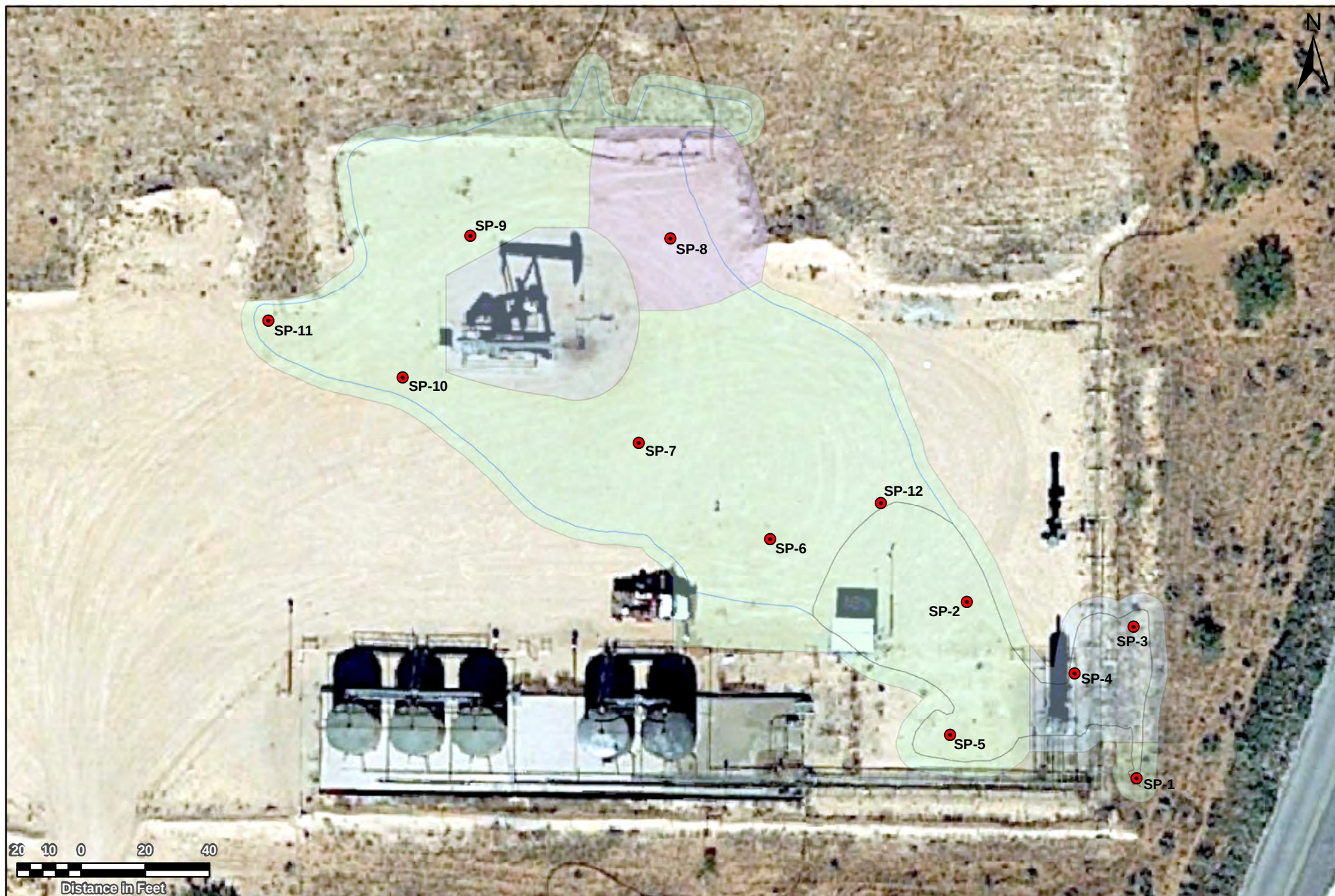
2,000 1,000 0 2,000
 Distance in Feet

Figure 1
Site Location Map
OXY USA, Inc.
Federal 12 #14H
Eddy County, New Mexico
NMOCD Reference #: 2RP-4488



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
- 1' bgs
- 2' bgs

- Auger Hole
- Release
- Overspray Area

Figure 2
Sample Location Map
OXY USA, Inc.
Federal 12 #14H
Eddy County, New Mexico
NMOCD Reference #: 2RP-4488



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

Drawn By: BJA	Checked By: CTR
March 29, 2018	Scale: 1" = 40'

Tables

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

OXY USA, INC.
FEDERAL 12 #14H
EDDY COUNTY, NEW MEXICO
NMOCD REFERENCE #: 2RP-4488



SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030							METHOD: 8015Mod				300
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	M,P-XYLENES (mg/Kg)	O-XYLENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C ₆ -C ₁₂ (mg/Kg)	DRO C ₁₂ -C ₂₈ (mg/Kg)	EXT DRO C ₂₈ -C ₃₅ (mg/Kg)	TPH C ₆ -C ₃₅ (mg/Kg)	CHLORIDE (mg/Kg)
NMOCD Recommended Remediation Action Levels (RRALs)				10	NE	NE	NE	NE	NE	50	NE	NE	NE	5,000	600
SP-1 @ 6"	6"	12/19/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	18.0	<15.0	18.0	35.4
SP-2 @ 6"	6"	12/19/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	<4.98
SP-3 @ 6"	6"	12/19/2017	In-Situ	<0.0020	0.0023	0.0088	0.0383	0.0162	0.0545	0.0656	26.4	371	35.1	433	6,670
SP-3 @ 1'	1'	12/19/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	25.6	<15.0	25.6	593
SP-4 @ 6"	6"	12/19/2017	In-Situ	0.0248	0.360	0.352	0.800	0.291	1.09	1.83	741	2,170	173	3,080	1,040
SP-4 @ 1'	1'	12/19/2017	In-Situ	<0.0020	0.0020	<0.0020	<0.0040	<0.0020	<0.0020	0.0020	<15.0	37.8	<15.0	37.8	<4.90
SP-5 @ 6"	6"	12/19/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	<5.00
SP-6 @ 6"	6"	12/20/2017	In-Situ	<0.0020	<0.0020	<0.0020	0.0050	<0.0020	0.0050	0.0050	<15.0	18.2	<15.0	18.2	12.0
SP-7 @ 6"	6"	12/20/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	402
SP-8 @ 6"	6"	12/20/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	9,300
SP-8 @ 1'	1'	12/20/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	1,010
SP-8 @ 2'	2'	12/20/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	274
SP-9 @ 6"	6"	12/20/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	<4.98
SP-10 @ 6"	6"	12/20/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	134
SP-11 @ 6"	6"	12/20/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	110
SP-12 @ 6"	6"	12/20/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	214

NE = Not established

- = Not analyzed

Concentrations in BOLD exceed NMOCD RRALs

**TABLE 2
CHLORIDE FIELD TESTS**

**OXY USA, INC.
FEDERAL 12 #14H
EDDY COUNTY, NEW MEXICO
NMOCD REFERENCE #: 2RP-4488**



SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	HACH QUANTAB
				CHLORIDE (mg/Kg)
NMOCD Recommended Remediation Action Level (RRAL)				600
SP-1 @ 6"	6"	12/19/2017	In-Situ	<116
SP-2 @ 6"	6"	12/19/2017	In-Situ	<116
SP-3 @ 6"	6"	12/19/2017	In-Situ	7,160
SP-3 @ 1'	1'	12/19/2017	In-Situ	560
SP-4 @ 6"	6"	12/19/2017	In-Situ	904
SP-4 @ 1'	1'	12/19/2017	In-Situ	<124
SP-5 @ 6"	6"	12/19/2017	In-Situ	<124
SP-6 @ 6"	6"	12/20/2017	In-Situ	<124
SP-7 @ 6"	6"	12/20/2017	In-Situ	<124
SP-8 @ 6"	6"	12/20/2017	In-Situ	8,492
SP-8 @ 1'	1'	12/20/2017	In-Situ	836
SP-8 @ 2'	2'	12/20/2017	In-Situ	308
SP-9 @ 6"	6"	12/20/2017	In-Situ	<124
SP-10 @ 6"	6"	12/20/2017	In-Situ	180
SP-11 @ 6"	6"	12/20/2017	In-Situ	<124
SP-12 @ 6"	6"	12/20/2017	In-Situ	180

Concentrations in BOLD exceed the NMOCD RRAL

Appendices

Appendix A

Release Notification &

Corrective Action (Form C-141)

NM OIL CONSERVATION

ARTESIA DISTRICT

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

NOV 15 2017

Form C-141
Revised April 3, 2017

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

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

Release Notification and Corrective Action

NAB1732444101

Name of Company OXY USA INC <i>11/10/17</i>		Contact WADE DITTRICH	
Address PO BOX 4294; HOUSTON, TX 77210		Telephone No. 575-390-2828	
Facility Name FEDERAL 12 #14H		Facility Type BATTERY	
Surface Owner FEDERAL	Mineral Owner FEDERAL	API No. 30-015-40821	

OPERATOR

☒ Initial Report ☐ Final Report

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	12	22S	31E	330	SOUTH	405	EAST	EDDY

Latitude 32.399528 Longitude -103.723766 NAD83

NATURE OF RELEASE

Type of Release OIL & PRODUCED WATER	Volume of Release 1 BBLS OIL & 7 BBLS PRODUCED WATER	Volume Recovered TBD
Source of Release GASKET SEAL ON HEATER TREATER FAILURE	Date and Hour of Occurrence 11/10/2017	Date and Hour of Discovery 11/11/2017
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? MIKE BRATCHER-NMOCD; CRYSTAL WEAVER-NMOCD; SHELLY TUCKER-BLM	
By Whom? WADE DITTRICH	Date and Hour 11/11/2017 @ 7:41 PM	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

The release was caused by a gasket seal on the heater treater failed. Gasket was fixed and returned to service.

Describe Area Affected and Cleanup Action Taken.*

The affected area was 10x30ft, 40x50ft (measurements are subject to change with GPS tracking). Remediation will be completed in accordance with a remediation plan approved by the NMOCD and the BLM.

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

Signature: <i>WaDe Dittrich</i>	OIL CONSERVATION DIVISION	
Printed Name: WADE DITTRICH	Approved by Environmental Specialist: <i>Crystal Weaver</i>	
Title: ENVIROMENTAL COORDINATOR	Approval Date: 11/20/17	Expiration Date: N/A
E-mail Address: wade_dittrich@oxy.com	Conditions of Approval: <i>see attached</i>	Attached ☒ <i>200-4488</i>
Date: 11-15-17 Phone: 575-390-2828		

* Attach Additional Sheets If Necessary

Appendix B

Depth-to-Groundwater Data



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 04144 POD2	CUB	LE		1	3	3	07	22S	32E	620136	3585733	315			
C 04144 POD1	CUB	LE		3	1	3	07	22S	32E	620128	3585772	349			
C 04144 POD4	CUB	LE		3	1	3	07	22S	32E	620200	3585808	409			
C 04144 POD3	CUB	LE		3	1	3	07	22S	32E	620240	3585842	458			

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 4

UTMNAD83 Radius Search (in meters):

Easting (X): 620025

Northing (Y): 3585438

Radius: 1610

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.

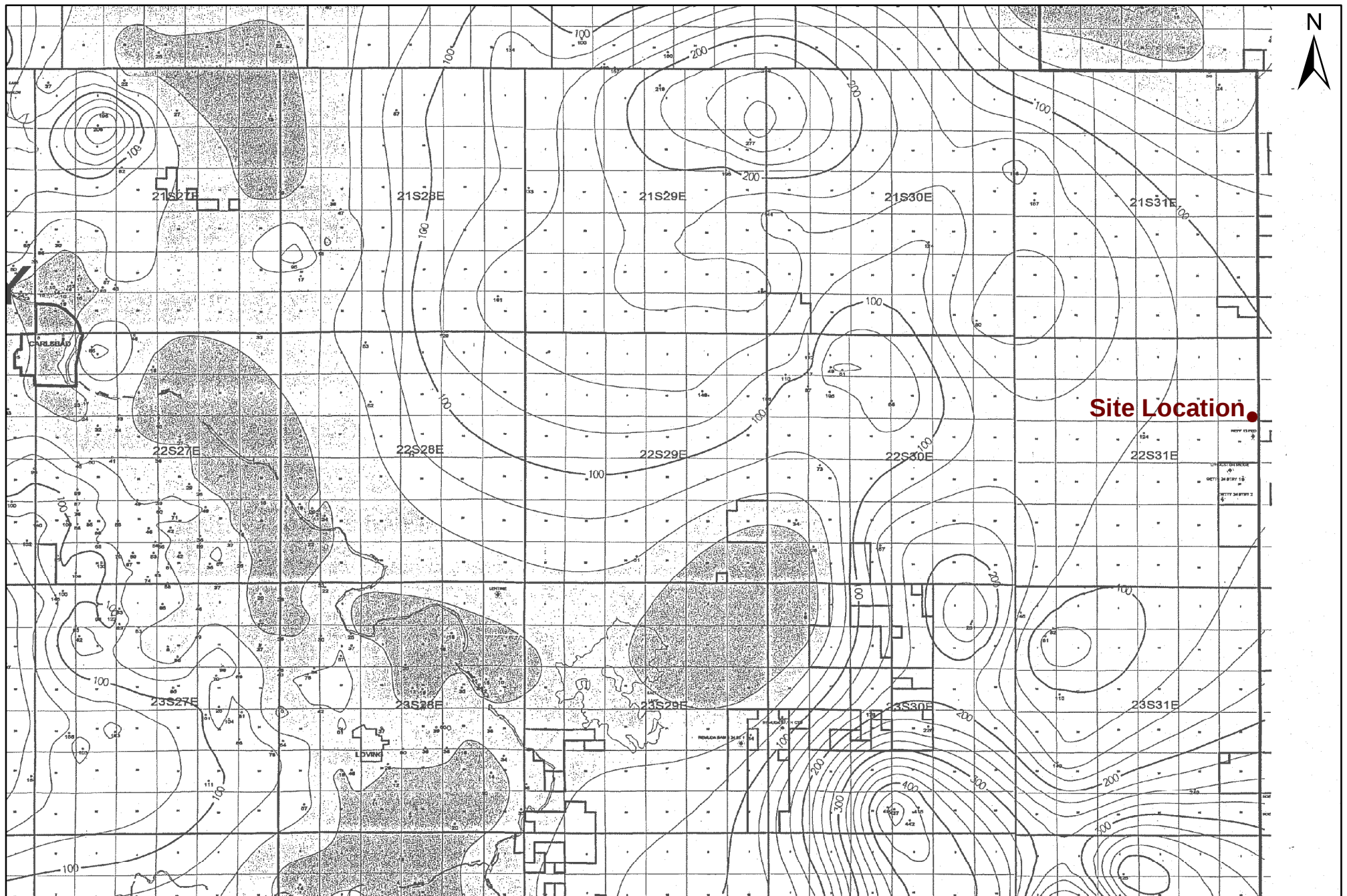


Figure 3
Depth-to-Groundwater Trend Map
OXY USA, Inc.
Federal 12 #14H
Eddy County, New Mexico
NMOCD Reference #: 2RP-4488



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. – Federal 12 #14H
Unit Letter “P” (SE/SE), Section 12, Township 22S, Range 31E



Federal 12 #14H – Release (Looking West)



Federal 12 #14H – Release (Looking West-Northwest)

OXY USA, Inc. – Federal 12 #14H
Unit Letter “P” (SE/SE), Section 12, Township 22S, Range 31E



Federal 12 #14H – Release (Looking South-Southwest)



Federal 12 #14H – Release (Looking South)

OXY USA, Inc. – Federal 12 #14H
Unit Letter “P” (SE/SE), Section 12, Township 22S, Range 31E



Federal 12 #14H – Release (Looking South)



Federal 12 #14H – Release (Looking Southeast)

OXY USA, Inc. – Federal 12 #14H
Unit Letter “P” (SE/SE), Section 12, Township 22S, Range 31E



Federal 12 #14H – Release (Looking Southeast)



Federal 12 #14H – Release (Looking Northeast)

OXY USA, Inc. – Federal 12 #14H
Unit Letter “P” (SE/SE), Section 12, Township 22S, Range 31E



Federal 12 #14H – Release (Looking East-Northeast)



Federal 12 #14H – Release (Looking South-Southeast)

OXY USA, Inc. – Federal 12 #14H
Unit Letter “P” (SE/SE), Section 12, Township 22S, Range 31E



Federal 12 #14H – Release (Looking West)



Federal 12 #14H – Release (Looking Northwest)

OXY USA, Inc. – Federal 12 #14H

Unit Letter “P” (SE/SE), Section 12, Township 22S, Range 31E



Federal 12 #14H – Release (Looking North-Northwest)



Federal 12 #14H – Release (Looking West-Southwest)

OXY USA, Inc. – Federal 12 #14H
Unit Letter “P” (SE/SE), Section 12, Township 22S, Range 31E



Federal 12 #14H – Release (Looking Southwest)



Federal 12 #14H – Release (Looking South-Southwest)

OXY USA, Inc. – Federal 12 #14H
Unit Letter “P” (SE/SE), Section 12, Township 22S, Range 31E



Federal 12 #14H – Release (Looking West-Northwest)



Federal 12 #14H – Release (Looking Northwest)

OXY USA, Inc. – Federal 12 #14H
Unit Letter “P” (SE/SE), Section 12, Township 22S, Range 31E



Federal 12 #14H – Release (Looking North-Northwest)



Federal 12 #14H – Release (Looking North-Northwest)

OXY USA, Inc. – Federal 12 #14H
Unit Letter “P” (SE/SE), Section 12, Township 22S, Range 31E



Federal 12 #14H – Overspray Area (Looking Northwest)



Federal 12 #14H – Overspray Area (Looking West-Northwest)

OXY USA, Inc. – Federal 12 #14H
Unit Letter “P” (SE/SE), Section 12, Township 22S, Range 31E



Federal 12 #14H – Overspray Area (Looking West)



Federal 12 #14H – Overspray Area (Looking Northwest)

Appendix D

Laboratory Analytical Reports



Certificate of Analysis Summary 572153

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: Fed. 12 14H Battery



Project Id:

Contact: Ben Arguijo

Project Location:

Date Received in Lab: Tue Dec-26-17 11:46 am

Report Date: 04-JAN-18

Project Manager: Holly Taylor

Analysis Requested	Lab Id:	572153-001	572153-002	572153-003	572153-004	572153-005	572153-006
	Field Id:	Sp-1@6"	Sp-2@6"	Sp-3@6"	Sp-3@1'	Sp-4@6"	Sp-4@1'
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Dec-19-17 12:30	Dec-19-17 13:10	Dec-19-17 13:30	Dec-19-17 13:45	Dec-19-17 14:00	Dec-19-17 14:10
BTEX by EPA 8021B	Extracted:	Dec-28-17 10:00	Dec-28-17 10:00	Dec-28-17 10:00	Dec-28-17 10:00	Dec-29-17 08:00	Dec-29-17 08:00
	Analyzed:	Dec-28-17 22:15	Dec-28-17 22:34	Dec-28-17 22:52	Dec-28-17 23:11	Dec-29-17 18:17	Dec-29-17 15:19
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00199 0.00199	<0.00202 0.00202	<0.00201 0.00201	<0.00199 0.00199	0.0248 0.00201	<0.00202 0.00202
Toluene		<0.00199 0.00199	<0.00202 0.00202	0.00232 0.00201	<0.00199 0.00199	0.360 0.00201	0.00203 0.00202
Ethylbenzene		<0.00199 0.00199	<0.00202 0.00202	0.00877 0.00201	<0.00199 0.00199	0.352 0.00201	<0.00202 0.00202
m,p-Xylenes		<0.00398 0.00398	<0.00403 0.00403	0.0383 0.00402	<0.00398 0.00398	0.800 0.00402	<0.00403 0.00403
o-Xylene		<0.00199 0.00199	<0.00202 0.00202	0.0162 0.00201	<0.00199 0.00199	0.291 0.00201	<0.00202 0.00202
Total Xylenes		<0.00199 0.00199	<0.00202 0.00202	0.0545 0.00201	<0.00199 0.00199	1.09 0.00201	<0.00202 0.00202
Total BTEX		<0.00199 0.00199	<0.00202 0.00202	0.0656 0.00201	<0.00199 0.00199	1.83 0.00201	0.00203 0.00202
Chloride by EPA 300	Extracted:	Dec-29-17 08:56	Dec-29-17 08:56	Dec-29-17 08:56	Dec-29-17 08:56	Dec-29-17 08:56	Dec-29-17 08:56
	Analyzed:	Dec-29-17 09:55	Dec-29-17 10:02	Dec-29-17 10:22	Dec-29-17 10:29	Dec-29-17 10:36	Dec-29-17 10:43
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		35.4 4.91	<4.98 4.98	6670 49.3	593 4.94	1040 4.95	<4.90 4.90
TPH By SW8015 Mod	Extracted:	Dec-28-17 10:00	Dec-28-17 10:00	Dec-28-17 10:00	Dec-28-17 10:00	Dec-28-17 10:00	Dec-28-17 10:00
	Analyzed:	Dec-28-17 17:36	Dec-28-17 13:55	Dec-28-17 14:15	Dec-28-17 14:36	Dec-28-17 15:55	Dec-28-17 14:55
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<15.0 15.0	26.4 15.0	<15.0 15.0	741 15.0	<15.0 15.0
Diesel Range Organics (DRO)		18.0 15.0	<15.0 15.0	371 15.0	25.6 15.0	2170 15.0	37.8 15.0
Oil Range Hydrocarbons (ORO)		<15.0 15.0	<15.0 15.0	35.1 15.0	<15.0 15.0	173 15.0	<15.0 15.0
Total TPH		18.0 15.0	<15.0 15.0	433 15.0	25.6 15.0	3080 15.0	37.8 15.0

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

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

Holly Taylor
Project Manager



Certificate of Analysis Summary 572153

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: Fed. 12 14H Battery



Project Id:

Contact: Ben Arguijo

Project Location:

Date Received in Lab: Tue Dec-26-17 11:46 am

Report Date: 04-JAN-18

Project Manager: Holly Taylor

Analysis Requested	Lab Id:	572153-007	572153-008	572153-009	572153-010	572153-011	572153-012
	Field Id:	Sp-5@6"	Sp-6@6"	Sp-7@6"	Sp-8@6"	Sp-8@1'	Sp-8@2'
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Dec-19-17 14:25	Dec-20-17 08:30	Dec-20-17 08:50	Dec-20-17 09:15	Dec-20-17 09:25	Dec-20-17 09:35
BTEX by EPA 8021B	Extracted:	Dec-29-17 08:00	Dec-29-17 08:00	Dec-30-17 12:00	Dec-30-17 12:00	Dec-30-17 12:00	Dec-30-17 12:00
	Analyzed:	Dec-29-17 15:38	Dec-29-17 15:57	Dec-30-17 23:32	Dec-30-17 23:51	Dec-31-17 00:49	Dec-31-17 01:08
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198
Toluene		<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198
Ethylbenzene		<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198
m,p-Xylenes		<0.00401 0.00401	0.00502 0.00404	<0.00402 0.00402	<0.00401 0.00401	<0.00398 0.00398	<0.00397 0.00397
o-Xylene		<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198
Total Xylenes		<0.00200 0.00200	0.00502 0.00202	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198
Total BTEX		<0.00200 0.00200	0.00502 0.00202	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198
Chloride by EPA 300	Extracted:	Dec-29-17 08:56	Dec-29-17 08:56	Dec-29-17 08:56	Dec-29-17 08:56	Dec-29-17 08:56	Dec-29-17 08:56
	Analyzed:	Dec-29-17 10:50	Dec-29-17 10:57	Dec-29-17 11:18	Dec-29-17 11:25	Dec-29-17 11:46	Dec-29-17 11:53
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		<5.00 5.00	12.0 4.92	402 4.96	9300 49.5	1010 4.95	274 4.94
TPH By SW8015 Mod	Extracted:	Dec-28-17 10:00	Dec-28-17 10:00	Dec-28-17 10:00	Dec-28-17 10:00	Dec-28-17 10:00	Dec-28-17 10:00
	Analyzed:	Dec-28-17 15:16	Dec-28-17 15:35	Dec-28-17 18:35	Dec-28-17 18:55	Dec-28-17 19:15	Dec-28-17 19:34
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0
Diesel Range Organics (DRO)		<15.0 15.0	18.2 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0
Oil Range Hydrocarbons (ORO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0
Total TPH		<15.0 15.0	18.2 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0

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

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

Holly Taylor
Project Manager



Certificate of Analysis Summary 572153

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: Fed. 12 14H Battery



Project Id:

Contact: Ben Arguijo

Project Location:

Date Received in Lab: Tue Dec-26-17 11:46 am

Report Date: 04-JAN-18

Project Manager: Holly Taylor

<i>Analysis Requested</i>	<i>Lab Id:</i>	572153-013	572153-014	572153-015	572153-016		
	<i>Field Id:</i>	Sp-9@6"	Sp-10@6"	Sp-11@6"	Sp-12@6"		
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL		
	<i>Sampled:</i>	Dec-20-17 09:45	Dec-20-17 10:00	Dec-20-17 10:15	Dec-20-17 10:30		
BTEX by EPA 8021B	<i>Extracted:</i>	Dec-30-17 12:00	Dec-30-17 12:00	Dec-30-17 12:00	Dec-30-17 12:00		
	<i>Analyzed:</i>	Dec-31-17 01:27	Dec-31-17 01:47	Dec-31-17 02:06	Dec-31-17 02:25		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Benzene		<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198		
Toluene		<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198		
Ethylbenzene		<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198		
m,p-Xylenes		<0.00403 0.00403	<0.00401 0.00401	<0.00398 0.00398	<0.00396 0.00396		
o-Xylene		<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198		
Total Xylenes		<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198		
Total BTEX		<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198		
Chloride by EPA 300	<i>Extracted:</i>	Dec-29-17 08:56	Dec-29-17 08:56	Dec-29-17 08:56	Dec-29-17 08:56		
	<i>Analyzed:</i>	Dec-29-17 12:00	Dec-29-17 12:07	Dec-29-17 12:14	Dec-29-17 12:21		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Chloride		<4.98 4.98	134 4.93	110 4.99	214 4.96		
TPH By SW8015 Mod	<i>Extracted:</i>	Dec-28-17 10:00	Dec-28-17 10:00	Dec-28-17 10:00	Dec-28-17 10:00		
	<i>Analyzed:</i>	Dec-28-17 19:54	Dec-28-17 20:15	Dec-28-17 20:36	Dec-28-17 20:56		
	<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)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0		
Oil Range Hydrocarbons (ORO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0		
Total TPH		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0		

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Holly Taylor
Project Manager

Analytical Report 572153
for
Trinity Oilfield Services & Rentals, LLC

Project Manager: Ben Arguijo

Fed. 12 14H Battery

04-JAN-18

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)



04-JAN-18

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

Reference: XENCO Report No(s): **572153**
Fed. 12 14H Battery
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) 572153. 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. 572153 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 572153



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fed. 12 14H Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Sp-1@6"	S	12-19-17 12:30		572153-001
Sp-2@6"	S	12-19-17 13:10		572153-002
Sp-3@6"	S	12-19-17 13:30		572153-003
Sp-3@1'	S	12-19-17 13:45		572153-004
Sp-4@6"	S	12-19-17 14:00		572153-005
Sp-4@1'	S	12-19-17 14:10		572153-006
Sp-5@6"	S	12-19-17 14:25		572153-007
Sp-6@6"	S	12-20-17 08:30		572153-008
Sp-7@6"	S	12-20-17 08:50		572153-009
Sp-8@6"	S	12-20-17 09:15		572153-010
Sp-8@1'	S	12-20-17 09:25		572153-011
Sp-8@2'	S	12-20-17 09:35		572153-012
Sp-9@6"	S	12-20-17 09:45		572153-013
Sp-10@6"	S	12-20-17 10:00		572153-014
Sp-11@6"	S	12-20-17 10:15		572153-015
Sp-12@6"	S	12-20-17 10:30		572153-016



CASE NARRATIVE

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

Project Name: *Fed. 12 14H Battery*

Project ID:
Work Order Number(s): 572153

Report Date: 04-JAN-18
Date Received: 12/26/2017

Sample receipt non conformance and comments:

Sample receipt non conformance and comments per sample:

None

Analytical non conformance and comments:

Batch: LBA-3037186 BTEX by EPA 8021B

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

Batch: LBA-3037330 BTEX by EPA 8021B

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

Batch: LBA-3037335 BTEX by EPA 8021B

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



Certificate of Analytical Results 572153



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fed. 12 14H Battery

Sample Id: **Sp-1@6"**
Lab Sample Id: 572153-001

Matrix: Soil
Date Collected: 12.19.17 12.30

Date Received: 12.26.17 11.46

Analytical Method: Chloride by EPA 300
Tech: LRI
Analyst: OJS
Seq Number: 3037187

Date Prep: 12.29.17 08.56

Prep Method: E300P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	35.4	4.91	mg/kg	12.29.17 09.55		1

Analytical Method: TPH By SW8015 Mod
Tech: JUM
Analyst: JUM
Seq Number: 3037188

Date Prep: 12.28.17 10.00

Prep Method: TX1005P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.28.17 17.36	U	1
Diesel Range Organics (DRO)	C10C28DRO	18.0	15.0	mg/kg	12.28.17 17.36		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	12.28.17 17.36	U	1
Total TPH	PHC635	18.0	15.0	mg/kg	12.28.17 17.36		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	73	%	70-135	12.28.17 17.36		
o-Terphenyl	84-15-1	76	%	70-135	12.28.17 17.36		



Certificate of Analytical Results 572153



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fed. 12 14H Battery

Sample Id: **Sp-1@6"**
Lab Sample Id: 572153-001

Matrix: Soil
Date Collected: 12.19.17 12.30

Date Received: 12.26.17 11.46

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 12.28.17 10.00

Basis: Wet Weight

Seq Number: 3037186

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.28.17 22.15	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.28.17 22.15	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.28.17 22.15	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.28.17 22.15	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.28.17 22.15	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	12.28.17 22.15	U	1
Total BTEX		<0.00199	0.00199	mg/kg	12.28.17 22.15	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	90	%	80-120	12.28.17 22.15		
4-Bromofluorobenzene	460-00-4	88	%	80-120	12.28.17 22.15		



Certificate of Analytical Results 572153



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fed. 12 14H Battery

Sample Id: **Sp-2@6"**
Lab Sample Id: 572153-002

Matrix: Soil
Date Collected: 12.19.17 13.10

Date Received: 12.26.17 11.46

Analytical Method: Chloride by EPA 300
Tech: LRI
Analyst: OJS
Seq Number: 3037187

Date Prep: 12.29.17 08.56

Prep Method: E300P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.98	4.98	mg/kg	12.29.17 10.02	U	1

Analytical Method: TPH By SW8015 Mod
Tech: JUM
Analyst: JUM
Seq Number: 3037188

Date Prep: 12.28.17 10.00

Prep Method: TX1005P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.28.17 13.55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	12.28.17 13.55	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	12.28.17 13.55	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	12.28.17 13.55	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	89	%	70-135	12.28.17 13.55		
o-Terphenyl	84-15-1	93	%	70-135	12.28.17 13.55		



Certificate of Analytical Results 572153



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fed. 12 14H Battery

Sample Id: **Sp-2@6"**
Lab Sample Id: 572153-002

Matrix: Soil
Date Collected: 12.19.17 13.10

Date Received: 12.26.17 11.46

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 12.28.17 10.00

Basis: Wet Weight

Seq Number: 3037186

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	12.28.17 22.34	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	12.28.17 22.34	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	12.28.17 22.34	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	12.28.17 22.34	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	12.28.17 22.34	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	12.28.17 22.34	U	1
Total BTEX		<0.00202	0.00202	mg/kg	12.28.17 22.34	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	91	%	80-120	12.28.17 22.34		
4-Bromofluorobenzene	460-00-4	88	%	80-120	12.28.17 22.34		



Certificate of Analytical Results 572153



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fed. 12 14H Battery

Sample Id: **Sp-3@6"**
Lab Sample Id: 572153-003

Matrix: Soil
Date Collected: 12.19.17 13.30

Date Received: 12.26.17 11.46

Analytical Method: Chloride by EPA 300
Tech: LRI
Analyst: OJS
Seq Number: 3037187

Date Prep: 12.29.17 08.56

Prep Method: E300P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6670	49.3	mg/kg	12.29.17 10.22		10

Analytical Method: TPH By SW8015 Mod
Tech: JUM
Analyst: JUM
Seq Number: 3037188

Date Prep: 12.28.17 10.00

Prep Method: TX1005P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	26.4	15.0	mg/kg	12.28.17 14.15		1
Diesel Range Organics (DRO)	C10C28DRO	371	15.0	mg/kg	12.28.17 14.15		1
Oil Range Hydrocarbons (ORO)	PHCG2835	35.1	15.0	mg/kg	12.28.17 14.15		1
Total TPH	PHC635	433	15.0	mg/kg	12.28.17 14.15		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	86	%	70-135	12.28.17 14.15		
o-Terphenyl	84-15-1	82	%	70-135	12.28.17 14.15		



Certificate of Analytical Results 572153



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fed. 12 14H Battery

Sample Id: **Sp-3@6"**
Lab Sample Id: 572153-003

Matrix: Soil
Date Collected: 12.19.17 13.30

Date Received: 12.26.17 11.46

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 12.28.17 10.00

Basis: Wet Weight

Seq Number: 3037186

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	12.28.17 22.52	U	1
Toluene	108-88-3	0.00232	0.00201	mg/kg	12.28.17 22.52		1
Ethylbenzene	100-41-4	0.00877	0.00201	mg/kg	12.28.17 22.52		1
m,p-Xylenes	179601-23-1	0.0383	0.00402	mg/kg	12.28.17 22.52		1
o-Xylene	95-47-6	0.0162	0.00201	mg/kg	12.28.17 22.52		1
Total Xylenes	1330-20-7	0.0545	0.00201	mg/kg	12.28.17 22.52		1
Total BTEX		0.0656	0.00201	mg/kg	12.28.17 22.52		1
Surrogate	Cas Number	% Recovery		Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	118		%	80-120	12.28.17 22.52	
1,4-Difluorobenzene	540-36-3	82		%	80-120	12.28.17 22.52	



Certificate of Analytical Results 572153



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fed. 12 14H Battery

Sample Id: **Sp-3@1'**
Lab Sample Id: 572153-004

Matrix: Soil
Date Collected: 12.19.17 13.45

Date Received: 12.26.17 11.46

Analytical Method: Chloride by EPA 300

Tech: LRI

Analyst: OJS

Seq Number: 3037187

Date Prep: 12.29.17 08.56

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	593	4.94	mg/kg	12.29.17 10.29		1

Analytical Method: TPH By SW8015 Mod

Tech: JUM

Analyst: JUM

Seq Number: 3037188

Date Prep: 12.28.17 10.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.28.17 14.36	U	1
Diesel Range Organics (DRO)	C10C28DRO	25.6	15.0	mg/kg	12.28.17 14.36		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	12.28.17 14.36	U	1
Total TPH	PHC635	25.6	15.0	mg/kg	12.28.17 14.36		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-135	12.28.17 14.36	
o-Terphenyl	84-15-1	93	%	70-135	12.28.17 14.36	



Certificate of Analytical Results 572153



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fed. 12 14H Battery

Sample Id: **Sp-3@1'**
Lab Sample Id: 572153-004

Matrix: Soil
Date Collected: 12.19.17 13.45

Date Received: 12.26.17 11.46

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 12.28.17 10.00

Basis: Wet Weight

Seq Number: 3037186

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.28.17 23.11	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.28.17 23.11	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.28.17 23.11	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.28.17 23.11	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.28.17 23.11	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	12.28.17 23.11	U	1
Total BTEX		<0.00199	0.00199	mg/kg	12.28.17 23.11	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	88	%	80-120	12.28.17 23.11		
4-Bromofluorobenzene	460-00-4	83	%	80-120	12.28.17 23.11		



Certificate of Analytical Results 572153



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fed. 12 14H Battery

Sample Id: **Sp-4@6"**
Lab Sample Id: 572153-005

Matrix: Soil
Date Collected: 12.19.17 14.00

Date Received: 12.26.17 11.46

Analytical Method: Chloride by EPA 300
Tech: LRI
Analyst: OJS
Seq Number: 3037187

Date Prep: 12.29.17 08.56

Prep Method: E300P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1040	4.95	mg/kg	12.29.17 10.36		1

Analytical Method: TPH By SW8015 Mod
Tech: JUM
Analyst: JUM
Seq Number: 3037188

Date Prep: 12.28.17 10.00

Prep Method: TX1005P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	741	15.0	mg/kg	12.28.17 15.55		1
Diesel Range Organics (DRO)	C10C28DRO	2170	15.0	mg/kg	12.28.17 15.55		1
Oil Range Hydrocarbons (ORO)	PHCG2835	173	15.0	mg/kg	12.28.17 15.55		1
Total TPH	PHC635	3080	15.0	mg/kg	12.28.17 15.55		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	104	%	70-135	12.28.17 15.55		
o-Terphenyl	84-15-1	76	%	70-135	12.28.17 15.55		



Certificate of Analytical Results 572153



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fed. 12 14H Battery

Sample Id: **Sp-4@6"**
Lab Sample Id: 572153-005

Matrix: Soil
Date Collected: 12.19.17 14.00

Date Received: 12.26.17 11.46

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 12.29.17 08.00

Basis: Wet Weight

Seq Number: 3037330

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.0248	0.00201	mg/kg	12.29.17 18.17		1
Toluene	108-88-3	0.360	0.00201	mg/kg	12.29.17 18.17		1
Ethylbenzene	100-41-4	0.352	0.00201	mg/kg	12.29.17 18.17		1
m,p-Xylenes	179601-23-1	0.800	0.00402	mg/kg	12.29.17 18.17		1
o-Xylene	95-47-6	0.291	0.00201	mg/kg	12.29.17 18.17		1
Total Xylenes	1330-20-7	1.09	0.00201	mg/kg	12.29.17 18.17		1
Total BTEX		1.83	0.00201	mg/kg	12.29.17 18.17		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	96	%	80-120	12.29.17 18.17		
1,4-Difluorobenzene	540-36-3	105	%	80-120	12.29.17 18.17		



Certificate of Analytical Results 572153



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fed. 12 14H Battery

Sample Id: **Sp-4@1'**
Lab Sample Id: 572153-006

Matrix: Soil
Date Collected: 12.19.17 14.10

Date Received: 12.26.17 11.46

Analytical Method: Chloride by EPA 300
Tech: LRI
Analyst: OJS
Seq Number: 3037187

Date Prep: 12.29.17 08.56

Prep Method: E300P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.90	4.90	mg/kg	12.29.17 10.43	U	1

Analytical Method: TPH By SW8015 Mod
Tech: JUM
Analyst: JUM
Seq Number: 3037188

Date Prep: 12.28.17 10.00

Prep Method: TX1005P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.28.17 14.55	U	1
Diesel Range Organics (DRO)	C10C28DRO	37.8	15.0	mg/kg	12.28.17 14.55		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	12.28.17 14.55	U	1
Total TPH	PHC635	37.8	15.0	mg/kg	12.28.17 14.55		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-135	12.28.17 14.55	
o-Terphenyl	84-15-1	91	%	70-135	12.28.17 14.55	



Certificate of Analytical Results 572153



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fed. 12 14H Battery

Sample Id: **Sp-4@1'**
Lab Sample Id: 572153-006

Matrix: Soil
Date Collected: 12.19.17 14.10

Date Received: 12.26.17 11.46

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 12.29.17 08.00

Basis: Wet Weight

Seq Number: 3037330

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	12.29.17 15.19	U	1
Toluene	108-88-3	0.00203	0.00202	mg/kg	12.29.17 15.19		1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	12.29.17 15.19	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	12.29.17 15.19	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	12.29.17 15.19	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	12.29.17 15.19	U	1
Total BTEX		0.00203	0.00202	mg/kg	12.29.17 15.19		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	85	%	80-120	12.29.17 15.19		
1,4-Difluorobenzene	540-36-3	84	%	80-120	12.29.17 15.19		



Certificate of Analytical Results 572153



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fed. 12 14H Battery

Sample Id: Sp-5@6"
Lab Sample Id: 572153-007

Matrix: Soil
Date Collected: 12.19.17 14.25

Date Received: 12.26.17 11.46

Analytical Method: Chloride by EPA 300
Tech: LRI
Analyst: OJS
Seq Number: 3037187

Date Prep: 12.29.17 08.56

Prep Method: E300P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.00	5.00	mg/kg	12.29.17 10.50	U	1

Analytical Method: TPH By SW8015 Mod
Tech: JUM
Analyst: JUM
Seq Number: 3037188

Date Prep: 12.28.17 10.00

Prep Method: TX1005P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.28.17 15.16	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	12.28.17 15.16	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	12.28.17 15.16	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	12.28.17 15.16	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	104	%	70-135	12.28.17 15.16		
o-Terphenyl	84-15-1	109	%	70-135	12.28.17 15.16		



Certificate of Analytical Results 572153



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fed. 12 14H Battery

Sample Id: Sp-5@6"
Lab Sample Id: 572153-007

Matrix: Soil
Date Collected: 12.19.17 14.25

Date Received: 12.26.17 11.46

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 12.29.17 08.00

Basis: Wet Weight

Seq Number: 3037330

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.29.17 15.38	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.29.17 15.38	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.29.17 15.38	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	12.29.17 15.38	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.29.17 15.38	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.29.17 15.38	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.29.17 15.38	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	86	%	80-120	12.29.17 15.38		
4-Bromofluorobenzene	460-00-4	82	%	80-120	12.29.17 15.38		



Certificate of Analytical Results 572153



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fed. 12 14H Battery

Sample Id: **Sp-6@6"**
Lab Sample Id: 572153-008

Matrix: Soil
Date Collected: 12.20.17 08.30

Date Received: 12.26.17 11.46

Analytical Method: Chloride by EPA 300
Tech: LRI
Analyst: OJS
Seq Number: 3037187

Date Prep: 12.29.17 08.56

Prep Method: E300P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	12.0	4.92	mg/kg	12.29.17 10.57		1

Analytical Method: TPH By SW8015 Mod
Tech: JUM
Analyst: JUM
Seq Number: 3037188

Date Prep: 12.28.17 10.00

Prep Method: TX1005P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.28.17 15.35	U	1
Diesel Range Organics (DRO)	C10C28DRO	18.2	15.0	mg/kg	12.28.17 15.35		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	12.28.17 15.35	U	1
Total TPH	PHC635	18.2	15.0	mg/kg	12.28.17 15.35		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	94	%	70-135	12.28.17 15.35		
o-Terphenyl	84-15-1	98	%	70-135	12.28.17 15.35		



Certificate of Analytical Results 572153



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fed. 12 14H Battery

Sample Id: **Sp-6@6"**
Lab Sample Id: 572153-008

Matrix: Soil
Date Collected: 12.20.17 08.30

Date Received: 12.26.17 11.46

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 12.29.17 08.00

Basis: Wet Weight

Seq Number: 3037330

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	12.29.17 15.57	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	12.29.17 15.57	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	12.29.17 15.57	U	1
m,p-Xylenes	179601-23-1	0.00502	0.00404	mg/kg	12.29.17 15.57		1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	12.29.17 15.57	U	1
Total Xylenes	1330-20-7	0.00502	0.00202	mg/kg	12.29.17 15.57		1
Total BTEX		0.00502	0.00202	mg/kg	12.29.17 15.57		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	85	%	80-120	12.29.17 15.57		
4-Bromofluorobenzene	460-00-4	82	%	80-120	12.29.17 15.57		



Certificate of Analytical Results 572153



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fed. 12 14H Battery

Sample Id: **Sp-7@6"**
Lab Sample Id: 572153-009

Matrix: Soil
Date Collected: 12.20.17 08.50

Date Received: 12.26.17 11.46

Analytical Method: Chloride by EPA 300
Tech: LRI
Analyst: OJS
Seq Number: 3037187

Date Prep: 12.29.17 08.56

Prep Method: E300P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	402	4.96	mg/kg	12.29.17 11.18		1

Analytical Method: TPH By SW8015 Mod
Tech: JUM
Analyst: JUM
Seq Number: 3037188

Date Prep: 12.28.17 10.00

Prep Method: TX1005P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.28.17 18.35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	12.28.17 18.35	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	12.28.17 18.35	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	12.28.17 18.35	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	81	%	70-135	12.28.17 18.35		
o-Terphenyl	84-15-1	84	%	70-135	12.28.17 18.35		



Certificate of Analytical Results 572153



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fed. 12 14H Battery

Sample Id: Sp-7@6"
Lab Sample Id: 572153-009

Matrix: Soil
Date Collected: 12.20.17 08.50

Date Received: 12.26.17 11.46

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 12.30.17 12.00

Basis: Wet Weight

Seq Number: 3037335

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	12.30.17 23.32	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	12.30.17 23.32	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	12.30.17 23.32	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	12.30.17 23.32	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	12.30.17 23.32	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	12.30.17 23.32	U	1
Total BTEX		<0.00201	0.00201	mg/kg	12.30.17 23.32	U	1
Surrogate	Cas Number	% Recovery		Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	86		%	80-120	12.30.17 23.32	
1,4-Difluorobenzene	540-36-3	95		%	80-120	12.30.17 23.32	



Certificate of Analytical Results 572153



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fed. 12 14H Battery

Sample Id: **Sp-8@6"**
Lab Sample Id: 572153-010

Matrix: Soil
Date Collected: 12.20.17 09.15

Date Received: 12.26.17 11.46

Analytical Method: Chloride by EPA 300
Tech: LRI
Analyst: OJS
Seq Number: 3037187

Date Prep: 12.29.17 08.56

Prep Method: E300P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	9300	49.5	mg/kg	12.29.17 11.25		10

Analytical Method: TPH By SW8015 Mod
Tech: JUM
Analyst: JUM
Seq Number: 3037188

Date Prep: 12.28.17 10.00

Prep Method: TX1005P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.28.17 18.55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	12.28.17 18.55	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	12.28.17 18.55	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	12.28.17 18.55	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	83	%	70-135	12.28.17 18.55		
o-Terphenyl	84-15-1	85	%	70-135	12.28.17 18.55		



Certificate of Analytical Results 572153



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fed. 12 14H Battery

Sample Id: **Sp-8@6"**
Lab Sample Id: 572153-010

Matrix: Soil
Date Collected: 12.20.17 09.15

Date Received: 12.26.17 11.46

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 12.30.17 12.00

Basis: Wet Weight

Seq Number: 3037335

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.30.17 23.51	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.30.17 23.51	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.30.17 23.51	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	12.30.17 23.51	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.30.17 23.51	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.30.17 23.51	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.30.17 23.51	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	94	%	80-120	12.30.17 23.51		
4-Bromofluorobenzene	460-00-4	86	%	80-120	12.30.17 23.51		



Certificate of Analytical Results 572153



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fed. 12 14H Battery

Sample Id: **Sp-8@1'**
Lab Sample Id: 572153-011

Matrix: Soil
Date Collected: 12.20.17 09.25

Date Received: 12.26.17 11.46

Analytical Method: Chloride by EPA 300

Tech: LRI

Analyst: OJS

Seq Number: 3037187

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Date Prep: 12.29.17 08.56

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1010	4.95	mg/kg	12.29.17 11.46		1

Analytical Method: TPH By SW8015 Mod

Tech: JUM

Analyst: JUM

Seq Number: 3037188

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

Date Prep: 12.28.17 10.00

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.28.17 19.15	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	12.28.17 19.15	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	12.28.17 19.15	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	12.28.17 19.15	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	78	%	70-135	12.28.17 19.15		
o-Terphenyl	84-15-1	76	%	70-135	12.28.17 19.15		



Certificate of Analytical Results 572153



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fed. 12 14H Battery

Sample Id: **Sp-8@1'**
Lab Sample Id: 572153-011

Matrix: Soil
Date Collected: 12.20.17 09.25

Date Received: 12.26.17 11.46

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 12.30.17 12.00

Basis: Wet Weight

Seq Number: 3037335

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.31.17 00.49	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.31.17 00.49	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.31.17 00.49	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.31.17 00.49	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.31.17 00.49	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	12.31.17 00.49	U	1
Total BTEX		<0.00199	0.00199	mg/kg	12.31.17 00.49	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	95	%	80-120	12.31.17 00.49		
4-Bromofluorobenzene	460-00-4	84	%	80-120	12.31.17 00.49		



Certificate of Analytical Results 572153



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fed. 12 14H Battery

Sample Id: **Sp-8@2'**
Lab Sample Id: 572153-012

Matrix: Soil
Date Collected: 12.20.17 09.35

Date Received: 12.26.17 11.46

Analytical Method: Chloride by EPA 300

Tech: LRI

Analyst: OJS

Seq Number: 3037187

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Date Prep: 12.29.17 08.56

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	274	4.94	mg/kg	12.29.17 11.53		1

Analytical Method: TPH By SW8015 Mod

Tech: JUM

Analyst: JUM

Seq Number: 3037188

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

Date Prep: 12.28.17 10.00

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.28.17 19.34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	12.28.17 19.34	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	12.28.17 19.34	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	12.28.17 19.34	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	72	%	70-135	12.28.17 19.34		
o-Terphenyl	84-15-1	72	%	70-135	12.28.17 19.34		



Certificate of Analytical Results 572153



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fed. 12 14H Battery

Sample Id: **Sp-8@2'**
Lab Sample Id: 572153-012

Matrix: Soil
Date Collected: 12.20.17 09.35

Date Received: 12.26.17 11.46

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 12.30.17 12.00

Basis: Wet Weight

Seq Number: 3037335

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	12.31.17 01.08	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	12.31.17 01.08	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	12.31.17 01.08	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	12.31.17 01.08	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	12.31.17 01.08	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	12.31.17 01.08	U	1
Total BTEX		<0.00198	0.00198	mg/kg	12.31.17 01.08	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	85	%	80-120	12.31.17 01.08		
1,4-Difluorobenzene	540-36-3	98	%	80-120	12.31.17 01.08		



Certificate of Analytical Results 572153



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fed. 12 14H Battery

Sample Id: **Sp-9@6"**
Lab Sample Id: 572153-013

Matrix: Soil
Date Collected: 12.20.17 09.45

Date Received: 12.26.17 11.46

Analytical Method: Chloride by EPA 300
Tech: LRI
Analyst: OJS
Seq Number: 3037187

Date Prep: 12.29.17 08.56

Prep Method: E300P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.98	4.98	mg/kg	12.29.17 12.00	U	1

Analytical Method: TPH By SW8015 Mod
Tech: JUM
Analyst: JUM
Seq Number: 3037188

Date Prep: 12.28.17 10.00

Prep Method: TX1005P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.28.17 19.54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	12.28.17 19.54	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	12.28.17 19.54	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	12.28.17 19.54	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	72	%	70-135	12.28.17 19.54		
o-Terphenyl	84-15-1	73	%	70-135	12.28.17 19.54		



Certificate of Analytical Results 572153



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fed. 12 14H Battery

Sample Id: **Sp-9@6"**
Lab Sample Id: 572153-013

Matrix: Soil
Date Collected: 12.20.17 09.45

Date Received: 12.26.17 11.46

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 12.30.17 12.00

Basis: Wet Weight

Seq Number: 3037335

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	12.31.17 01.27	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	12.31.17 01.27	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	12.31.17 01.27	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	12.31.17 01.27	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	12.31.17 01.27	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	12.31.17 01.27	U	1
Total BTEX		<0.00202	0.00202	mg/kg	12.31.17 01.27	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	84	%	80-120	12.31.17 01.27		
1,4-Difluorobenzene	540-36-3	92	%	80-120	12.31.17 01.27		



Certificate of Analytical Results 572153



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fed. 12 14H Battery

Sample Id: **Sp-10@6"**

Matrix: Soil

Date Received: 12.26.17 11.46

Lab Sample Id: 572153-014

Date Collected: 12.20.17 10.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: LRI

% Moisture:

Analyst: OJS

Date Prep: 12.29.17 08.56

Basis: Wet Weight

Seq Number: 3037187

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	134	4.93	mg/kg	12.29.17 12.07		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: JUM

% Moisture:

Analyst: JUM

Date Prep: 12.28.17 10.00

Basis: Wet Weight

Seq Number: 3037188

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.28.17 20.15	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	12.28.17 20.15	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	12.28.17 20.15	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	12.28.17 20.15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	85	%	70-135	12.28.17 20.15	
o-Terphenyl	84-15-1	82	%	70-135	12.28.17 20.15	



Certificate of Analytical Results 572153



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fed. 12 14H Battery

Sample Id: **Sp-10@6"**

Matrix: Soil

Date Received: 12.26.17 11.46

Lab Sample Id: 572153-014

Date Collected: 12.20.17 10.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 12.30.17 12.00

Basis: Wet Weight

Seq Number: 3037335

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.31.17 01.47	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.31.17 01.47	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.31.17 01.47	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	12.31.17 01.47	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.31.17 01.47	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.31.17 01.47	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.31.17 01.47	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	95	%	80-120	12.31.17 01.47		
4-Bromofluorobenzene	460-00-4	86	%	80-120	12.31.17 01.47		



Certificate of Analytical Results 572153



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fed. 12 14H Battery

Sample Id: **Sp-11@6"**

Matrix: Soil

Date Received: 12.26.17 11.46

Lab Sample Id: 572153-015

Date Collected: 12.20.17 10.15

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: LRI

% Moisture:

Analyst: OJS

Date Prep: 12.29.17 08.56

Basis: Wet Weight

Seq Number: 3037187

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	110	4.99	mg/kg	12.29.17 12.14		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: JUM

% Moisture:

Analyst: JUM

Date Prep: 12.28.17 10.00

Basis: Wet Weight

Seq Number: 3037188

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.28.17 20.36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	12.28.17 20.36	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	12.28.17 20.36	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	12.28.17 20.36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	83	%	70-135	12.28.17 20.36	
o-Terphenyl	84-15-1	83	%	70-135	12.28.17 20.36	



Certificate of Analytical Results 572153



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fed. 12 14H Battery

Sample Id: **Sp-11@6"**

Matrix: Soil

Date Received: 12.26.17 11.46

Lab Sample Id: 572153-015

Date Collected: 12.20.17 10.15

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 12.30.17 12.00

Basis: Wet Weight

Seq Number: 3037335

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.31.17 02.06	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.31.17 02.06	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.31.17 02.06	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.31.17 02.06	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.31.17 02.06	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	12.31.17 02.06	U	1
Total BTEX		<0.00199	0.00199	mg/kg	12.31.17 02.06	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	84	%	80-120	12.31.17 02.06		
1,4-Difluorobenzene	540-36-3	99	%	80-120	12.31.17 02.06		



Certificate of Analytical Results 572153



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fed. 12 14H Battery

Sample Id: Sp-12@6"

Matrix: Soil

Date Received: 12.26.17 11.46

Lab Sample Id: 572153-016

Date Collected: 12.20.17 10.30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: LRI

% Moisture:

Analyst: OJS

Date Prep: 12.29.17 08.56

Basis: Wet Weight

Seq Number: 3037187

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	214	4.96	mg/kg	12.29.17 12.21		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: JUM

% Moisture:

Analyst: JUM

Date Prep: 12.28.17 10.00

Basis: Wet Weight

Seq Number: 3037188

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.28.17 20.56	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	12.28.17 20.56	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	12.28.17 20.56	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	12.28.17 20.56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-135	12.28.17 20.56	
o-Terphenyl	84-15-1	87	%	70-135	12.28.17 20.56	



Certificate of Analytical Results 572153



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Fed. 12 14H Battery

Sample Id: **Sp-12@6"**

Matrix: Soil

Date Received: 12.26.17 11.46

Lab Sample Id: 572153-016

Date Collected: 12.20.17 10.30

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 12.30.17 12.00

Basis: Wet Weight

Seq Number: 3037335

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	12.31.17 02.25	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	12.31.17 02.25	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	12.31.17 02.25	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	12.31.17 02.25	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	12.31.17 02.25	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	12.31.17 02.25	U	1
Total BTEX		<0.00198	0.00198	mg/kg	12.31.17 02.25	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	94	%	80-120	12.31.17 02.25		
4-Bromofluorobenzene	460-00-4	80	%	80-120	12.31.17 02.25		

- 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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QC Summary 572153

Trinity Oilfield Services & Rentals, LLC

Fed. 12 14H Battery

Analytical Method: Chloride by EPA 300

Seq Number: 3037187

MB Sample Id: 7636738-1-BLK

Matrix: Solid

LCS Sample Id: 7636738-1-BKS

Prep Method: E300P

Date Prep: 12.29.17

LCSD Sample Id: 7636738-1-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	238	95	239	96	90-110	0	20	mg/kg	12.29.17 09:06	

Analytical Method: Chloride by EPA 300

Seq Number: 3037187

Parent Sample Id: 572153-008

Matrix: Soil

MS Sample Id: 572153-008 S

Prep Method: E300P

Date Prep: 12.29.17

MSD Sample Id: 572153-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	12.0	246	253	98	252	98	90-110	0	20	mg/kg	12.29.17 11:04	

Analytical Method: Chloride by EPA 300

Seq Number: 3037187

Parent Sample Id: 572184-002

Matrix: Soil

MS Sample Id: 572184-002 S

Prep Method: E300P

Date Prep: 12.29.17

MSD Sample Id: 572184-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<4.97	249	234	94	235	94	90-110	0	20	mg/kg	12.29.17 09:27	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3037188

MB Sample Id: 7636777-1-BLK

Matrix: Solid

LCS Sample Id: 7636777-1-BKS

Prep Method: TX1005P

Date Prep: 12.28.17

LCSD Sample Id: 7636777-1-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	939	94	866	87	70-135	8	35	mg/kg	12.28.17 12:36	
Diesel Range Organics (DRO)	<15.0	1000	975	98	920	92	70-135	6	35	mg/kg	12.28.17 12:36	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	82		90		85		70-135	%	12.28.17 12:36
o-Terphenyl	86		106		101		70-135	%	12.28.17 12:36

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

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

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

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



QC Summary 572153

Trinity Oilfield Services & Rentals, LLC

Fed. 12 14H Battery

Analytical Method: TPH By SW8015 Mod

Seq Number: 3037188

Parent Sample Id: 572153-001

Matrix: Soil

MS Sample Id: 572153-001 S

Prep Method: TX1005P

Date Prep: 12.28.17

MSD Sample Id: 572153-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	798	80	916	92	70-135	14	35	mg/kg	12.28.17 17:56	
Diesel Range Organics (DRO)	18.0	1000	771	75	755	74	70-135	2	35	mg/kg	12.28.17 17:56	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	77		88		70-135	%	12.28.17 17:56
o-Terphenyl	82		88		70-135	%	12.28.17 17:56

Analytical Method: BTEX by EPA 8021B

Seq Number: 3037186

MB Sample Id: 7636780-1-BLK

Matrix: Solid

LCS Sample Id: 7636780-1-BKS

Prep Method: SW5030B

Date Prep: 12.28.17

LCSD Sample Id: 7636780-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.0872	87	0.0836	84	70-130	4	35	mg/kg	12.28.17 15:00	
Toluene	<0.00200	0.0998	0.0823	82	0.0788	79	70-130	4	35	mg/kg	12.28.17 15:00	
Ethylbenzene	<0.00200	0.0998	0.0931	93	0.0888	89	71-129	5	35	mg/kg	12.28.17 15:00	
m,p-Xylenes	<0.00399	0.200	0.184	92	0.175	88	70-135	5	35	mg/kg	12.28.17 15:00	
o-Xylene	<0.00200	0.0998	0.0858	86	0.0820	82	71-133	5	35	mg/kg	12.28.17 15:00	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	92		93		94		80-120	%	12.28.17 15:00
4-Bromofluorobenzene	84		93		96		80-120	%	12.28.17 15:00

Analytical Method: BTEX by EPA 8021B

Seq Number: 3037330

MB Sample Id: 7636889-1-BLK

Matrix: Solid

LCS Sample Id: 7636889-1-BKS

Prep Method: SW5030B

Date Prep: 12.29.17

LCSD Sample Id: 7636889-1-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	0.0885	89	0.0859	86	70-130	3	35	mg/kg	12.29.17 12:46	
Toluene	<0.00200	0.100	0.0830	83	0.0809	81	70-130	3	35	mg/kg	12.29.17 12:46	
Ethylbenzene	<0.00200	0.100	0.0932	93	0.0898	90	71-129	4	35	mg/kg	12.29.17 12:46	
m,p-Xylenes	<0.00401	0.200	0.184	92	0.177	89	70-135	4	35	mg/kg	12.29.17 12:46	
o-Xylene	<0.00200	0.100	0.0857	86	0.0828	83	71-133	3	35	mg/kg	12.29.17 12:46	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	93		95		99		80-120	%	12.29.17 12:46
4-Bromofluorobenzene	91		98		97		80-120	%	12.29.17 12:46

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

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

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

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



Trinity Oilfield Services & Rentals, LLC

Fed. 12 14H Battery

Analytical Method: BTEX by EPA 8021B

Seq Number: 3037335

MB Sample Id: 7636894-1-BLK

Matrix: Solid

LCS Sample Id: 7636894-1-BKS

Prep Method: SW5030B

Date Prep: 12.30.17

LCSD Sample Id: 7636894-1-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	0.0827	82	0.0838	84	70-130	1	35	mg/kg	12.30.17 18:43	
Toluene	<0.00202	0.101	0.0769	76	0.0782	78	70-130	2	35	mg/kg	12.30.17 18:43	
Ethylbenzene	<0.00202	0.101	0.0826	82	0.0830	83	71-129	0	35	mg/kg	12.30.17 18:43	
m,p-Xylenes	<0.00403	0.202	0.162	80	0.163	82	70-135	1	35	mg/kg	12.30.17 18:43	
o-Xylene	<0.00202	0.101	0.0778	77	0.0779	78	71-133	0	35	mg/kg	12.30.17 18:43	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	96		101		99		80-120	%	12.30.17 18:43
4-Bromofluorobenzene	81		92		93		80-120	%	12.30.17 18:43

Analytical Method: BTEX by EPA 8021B

Seq Number: 3037186

Parent Sample Id: 572178-011

Matrix: Soil

MS Sample Id: 572178-011 S

Prep Method: SW5030B

Date Prep: 12.28.17

MSD Sample Id: 572178-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0968	97	0.0871	86	70-130	11	35	mg/kg	12.28.17 15:38	
Toluene	<0.00200	0.100	0.0873	87	0.0760	75	70-130	14	35	mg/kg	12.28.17 15:38	
Ethylbenzene	<0.00200	0.100	0.0887	89	0.0821	81	71-129	8	35	mg/kg	12.28.17 15:38	
m,p-Xylenes	<0.00401	0.200	0.174	87	0.162	81	70-135	7	35	mg/kg	12.28.17 15:38	
o-Xylene	<0.00200	0.100	0.0829	83	0.0776	77	71-133	7	35	mg/kg	12.28.17 15:38	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	110		113		80-120	%	12.28.17 15:38
4-Bromofluorobenzene	118		117		80-120	%	12.28.17 15:38

Analytical Method: BTEX by EPA 8021B

Seq Number: 3037330

Parent Sample Id: 572250-003

Matrix: Soil

MS Sample Id: 572250-003 S

Prep Method: SW5030B

Date Prep: 12.29.17

MSD Sample Id: 572250-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0996	0.0669	67	0.0538	54	70-130	22	35	mg/kg	12.29.17 13:23	X
Toluene	<0.00199	0.0996	0.0468	47	0.0365	37	70-130	25	35	mg/kg	12.29.17 13:23	X
Ethylbenzene	<0.00199	0.0996	0.0365	37	0.0276	28	71-129	28	35	mg/kg	12.29.17 13:23	X
m,p-Xylenes	<0.00398	0.199	0.0696	35	0.0522	26	70-135	29	35	mg/kg	12.29.17 13:23	X
o-Xylene	<0.00199	0.0996	0.0348	35	0.0263	26	71-133	28	35	mg/kg	12.29.17 13:23	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		100		80-120	%	12.29.17 13:23
4-Bromofluorobenzene	102		102		80-120	%	12.29.17 13:23

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

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

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

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



Trinity Oilfield Services & Rentals, LLC

Fed. 12 14H Battery

Analytical Method: BTEX by EPA 8021B

Seq Number: 3037335

Parent Sample Id: 572353-025

Matrix: Soil

MS Sample Id: 572353-025 S

Prep Method: SW5030B

Date Prep: 12.30.17

MSD Sample Id: 572353-025 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.100	0.0740	74	0.0853	85	70-130	14	35	mg/kg	12.30.17 19:22	
Toluene	<0.00201	0.100	0.0676	68	0.0785	79	70-130	15	35	mg/kg	12.30.17 19:22	X
Ethylbenzene	<0.00201	0.100	0.0724	72	0.0841	84	71-129	15	35	mg/kg	12.30.17 19:22	
m,p-Xylenes	<0.00402	0.201	0.142	71	0.164	82	70-135	14	35	mg/kg	12.30.17 19:22	
o-Xylene	<0.00201	0.100	0.0684	68	0.0787	79	71-133	14	35	mg/kg	12.30.17 19:22	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		98		80-120	%	12.30.17 19:22
4-Bromofluorobenzene	94		97		80-120	%	12.30.17 19:22

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

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

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

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



CHAIN OF CUSTODY RECORD

Houston: 4143 Greenbriar Dr. Stafford, TX 77477 (281)240-4200 Odessa: 12600 West I-20 East Odessa, TX 79765 (432)561-0001

Page 1 of 2

LAB W.O #:

Field billable Hrs:

572153
572154

* Container Type Codes

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

** Preservative Type Codes

A. None	E. HCL	I. Ice
B. HNO ₃	F. MeOH	J. MCAA
C. H ₂ SO ₄	G. Na ₂ S ₂ O ₃	K. ZnAc&NaOH
D. NaOH	H. NaHSO ₄	L. Asbc
Acid&NaOH		
O.		

^ Matrix Type Codes

GW Ground Water	S Soil/Sediment/Sol
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	

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: Fed. 12 14H Battery	PO#:	
Invoice To: Oxy - Wade Dittrich (575)390-2828	Quote #:	

Sampler Name: Paul Pinon	Circle One Event: Daily Weekly Monthly Quarterly Semi-Annual Annual N/A
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Sample #	Sample ID	Collect Date	Collect Time	Matrix Code ^	Photo	Filtered	Integrity	OK (Y/N)	Total # of containers	Example Volatiles by 8260	TPH	8015M	BTEX	Chloride	Hold Sample (CALL)	Run PAH	REMARKS
										# Cont	Lab Only:						
1	SP-1 @ 6"	12/19/17	1230	S					1	X			X				Run BTEX if TPH <= 5,000
2	SP-2 @ 6"	12/19/17	1310	S					1	X			X				Run BTEX if TPH <= 5,000
3	SP-3 @ 6"	12/19/17	1330	S					1	X			X				Run BTEX if TPH <= 5,000
4	SP-3 @ 1'	12/19/17	1345	S					1	X			X				Run BTEX if TPH <= 5,000
5	SP-4 @ 6"	12/19/17	1400	S					1	X			X				Run BTEX if TPH <= 5,000
6	SP-4 @ 1'	12/19/17	1410	S					1	X			X				Run BTEX if TPH <= 5,000
7	SP-5 @ 6"	12/19/17	1425	S					1	X			X				Run BTEX if TPH <= 5,000
8	SP-6 @ 6"	12/20/17	0830	S					1	X			X				Run BTEX if TPH <= 5,000
9	SP-7 @ 6"	12/20/17	0850	S					1	X			X				Run BTEX if TPH <= 5,000
0	SP-8 @ 6"	12/20/17	0915	S					1	X			X				Run BTEX if TPH <= 5,000

Reg. Program / Clean-up Std		STATE for Certs & Regs		QA/QC Level & Certification		EDDs		COC & Labels		Coolers Temp °C		Lab Use Only		YES NO N			
CTLs	TRRP DW NPDES LPST DryCln	FL TX GA NC SC NJ PA	1 2 3 4 CLP AFCEE QAPP	ADaPT SEDD	Match	1-6-72	3	Non-Conformances found?									
Other:	OK LA AL NM Other:	NELAC DoD-ELAP Other:	ERPIMS XLS Other:	Incomplete					Samples intact upon arrival?								
Relinquished by		Affiliation		Date		Time		Received by		Affiliation		Date		Time		Received on Wet Ice?	
1 Paul Pinon		Trinity		12/26/17		11:46		Kuefer		MS		12-26-17		11:46		Labeled with proper preservatives?	
2 Kamey		MS		12/26/17		1:35		Kuefer		MS		12-27		11:29		Received within holding time?	
3																Custody seals intact?	
4																VOCs rec'd w/o head	

B&A Laboratories: Hobbs 575-392-7550 Dallas 214-902-0300 Houston 281-242-4200 Odessa 432-563-1800 San Antonio 210-509-3334 F

437-0330 FTS Service Centers: Atlanta 770-449-8800 Lakeland 863-646-8526 Tampa 803-543-8099 Philadelphia 610-95-

Calculation 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 of payment are Net 30 days, and all past due amounts shall accrue interest at 1.5% per month until paid in full. All laboratory analytical data and reports generated by Xenco remain the exclusive prop

Revision Date: Nov 12, 2009

Temp: 0.8 IR ID: R-8
CF: (0-6: -0.2°C)
(6-23: +0.2°C)
Corrected Temp: 0.4
... paid in full.



CHAIN OF CUSTODY RECORD

Page 2 of 2

Houston: 4143 Greenbriar Dr. Stafford, TX 77477 (281)240-4200 Odessa: 12600 West I-20 East Odessa, TX 79765 (432)56

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root-c
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LAB W.O # :

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

Size(s): 2oz 4oz 8oz 16oz 32oz 1Gal

**** Preservative Type Codes**

A. None E. HCL I. Ice
B. HNO₃ F. MeOH J. MCAA
C. H₂SO₄ G. Na₂S₂O₃ K. ZnAc&NaOH
D. NaOH H. NaHSO₄ L. Asbc
Acid&NaOH
O

^ Matrix Type Codes

GW	Ground Water	S	Soil/Sediment/Sol
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		

REMARKS

Company: Trinity Oilfield Services & Rentals, LLC						Phone: (575)390-7208		TAT Work Days = D Need results by: _____ Time: _____										GC Glass Clear ZS Zip Lock Bag PA Plastic Amber PC Plastic Clear Other _____		
Address: P.O. Box 2587						Fax: _____		Std (5-7D) 5Hrs 1D 2D 3D 4D 5D 7D 10D 14D Other _____										Size(s): 2oz, 4oz, 8oz, 16oz, 32oz , 1Gal		
City: Hobbs				State: NM		Zip: 88241		ANALYSES REQUESTED										** Preservative Type Codes		
PM/Attn: Ben J. Arguijo				Email: wade.ditrich@oxy.com & ben@trinityoilfieldservices.com				Cont Type • VC		GC	GC	GC							A. None E. HCL I. Ice B. HNO ₃ F. MeOH J. MCAA C. H ₂ SO ₄ G. Na ₂ S ₂ O ₃ K. ZnAc&NaOH D. NaOH H. NaHSO ₄ L. Asbc Acid&NaOH O.	
Project ID: Fed. 12 14H Battery				PO#:		Pres Type**		I	I	I										
Invoice To: Oxy - Wade Dittrich (575)390-2828				Quote #:		Example Volatiles by 8260		TPH	BTEX	Chloride								^ Matrix Type Codes		
Sampler Name: Paul Pinon				Circle One Event: Daily Weekly Monthly Quarterly Semi-Annual Annual N/A				8015M											GW Ground Water S Soil/Sediment/Sol 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	
Sample #	Sample ID	Collect Date	Collect Time	Matrix Code ^	Filled Integrity OK (Y/N)	Total # of containers	# Cont	Lab Only:											Hold Sample (CALL) Run PAH	REMARKS
1	SP-8 @ 1'	12/20/17	0925	S		1	X		See Remarks	X										Run BTEX if TPH <= 5,000
2	SP-8 @ 2'	12/20/17	0935	S		1	X			X										Run BTEX if TPH <= 5,000
3	SP-9 @ 6"	12/20/17	0945	S		1	X			X										Run BTEX if TPH <= 5,000
4	SP-10 @ 6"	12/20/17	1000	S		1	X			X										Run BTEX if TPH <= 5,000
5	SP-11 @ 6"	12/20/17	1015	S		1	X			X										Run BTEX if TPH <= 5,000
6	SP-12 @ 6"	12/20/17	1030	S		1	X			X										Run BTEX if TPH <= 5,000
7																				
8																				
9																				
0																				
Reg. Program / Clean-up Std				STATE for Certs & Regs				QA/QC Level & Certification				EDDs		COC & Labels		Coolers Temp °C		Lab Use Only YES NO N		
CTLs TRRP DW NPDES LPST DryCln				FL TX GA NC SC NJ PA				1 2 3 4 CLP AFCEE QAPP				ADAPT SEDD		Match Incomplete		10-72 3		Non-Conformances found?		
Other:				OK LA AL NM Other:				NELAC DoD-ELAP Other:				ERPIMS XLS Other:						Samples intact upon arrival?		
Relinquished by				Affiliation				Date		Time		Received by		Affiliation		Date		Time		
Paul Pinon				Trinity				12/26/17		11:40		Kendall		MS		12/26/17		11:46		
Kendall				MS				12/26/17		1:35		J. RAMER		PCRAMER		12/27/17		11:29		
																Temp: 0.8		IR ID:R-8		

B&A Laboratories: Hobbs 575-392-7550 Dallas 214-902-0300 Houston 281-242-4200 Odessa 432-563-1800 San Antonio 210-509-437-0330
 ETS Service Centers: Atlanta 770-449-8800 | Lakeland 863-646-8526 Tampa 813-543-8089 Philadelphia

Execution of this document by client creates a legal and binding agreement between client and Xencio for analytical and testing services provided by Xencio to client under Xencio's Standard payment are Net 30 days, and all past due amounts shall accrue interest at 1.5% per month until paid in full. All laboratory analytical data and reports generated by Xencio remain the ex

Revision Date: Nov 12, 2009

Temp: 0.8 IR ID: R-8
CF: (0-6: -0.2°C)
(6-23: +0.2°C)
Corrected Temp: 0.10



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Trinity Oilfield Services & Rentals, LLC

Date/ Time Received: 12/26/2017 11:46:00 AM

Work Order #: 572153

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist

Comments

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

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

Analyst:

PH Device/Lot#:

Checklist completed by:

Shawnee Smith

Date: 12/27/2017

Checklist reviewed by:

Holly Taylor

Date: 12/27/2017