

Trinity Oilfield Services & Rentals, LLC

Environmental Site Summary & Spill Remediation Plan



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

Site Name: Sterling Silver 3 0005 NMOCD Reference#: 2RP-4497

Surface Owner: US BLM Mineral Owner: US BLM

Unit Letter: "C" (NE/NW) Section: 3 Township: 24S Range: 31E County: Eddy GPS Coordinates: 32.251740 N -103.766190 W

Depth to Ground Water: 160' - 205' Distance to Surface Water Body: ☐ <200' ☐ 200' - 1,000' ☒ >1,000'

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

NMOCD Ranking Score: 0 Soil Remediation Levels (mg/kg): Benzene: 10 BTEX: 50 TPH: ☐ 100 ☐ 1,000 ☒ 5,000 Chloride: ☐ 250 ☒ 600
Date/Time of Release: 8/17/2017 Type of Release: Produced Water & Crude Oil Approximate Volume of Release: 11 bbls Produced Water 1 bbl Crude Oil

Background Information:

On August 17, 2017, OXY USA, Inc. (OXY), discovered a release at the Sterling Silver 3 0005 well site. Failure of a section of a 3-inch steel production line resulted in the release of approximately 11 barrels (bbls) of produced water and 1 bbl of crude oil. The release affected an area of the well pad measuring approximately 2,800 square feet, as well as an area of the adjacent pasture measuring approximately 1,700 square feet. The production line was repaired during initial response activities.

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 B. A "Site Location Map" is provided as Figure 1.

Summary of Field Activities:

On August 23, 2017, a series of hand-augered soil borings (SP-1 through SP-8) were advanced at the site to investigate the extent of impacted soil. The auger holes ranged in depth from approximately 6 inches to approximately 10 feet below ground surface (bgs). Soil samples collected at 6-inch to 1-foot vertical intervals were field-screened with a chloride test kit, and representative samples were submitted to Xenco Laboratories in Midland, Texas, for analysis of total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene, and total xylenes (BTEX), and/or chloride concentrations using Environmental Protection Agency (EPA) Methods SW 846-8015M, SW 846-8021b, and 300.1, respectively.

Laboratory analytical results and field screens indicated vertical delineation of the 8/23/2017 release had been achieved. TPH and BTEX constituent concentrations in all submitted samples were below the NMOCD "Recommended Remediation Action Levels" (RRALs) established for the site. However, a zone of historical chloride contamination was encountered at approximately 10 feet bgs in auger hole SP-2.

On October 25 and 26, 2017, heavily impacted, visibly stained soil on the caliche well pad and in the adjacent pasture was excavated and stockpiled on-site, pending final disposition. Based on laboratory analytical results and field screens, the excavation was advanced as follows:

- The areas represented by auger holes SP-3, SP-4, and SP-7 were excavated to approximately 6 inches bgs.
- The area represented by auger holes SP-5 and SP-8, as well as immediately adjacent to the well head, were excavated to approximately 1 foot bgs.
- The area represented by auger hole SP-6 was excavated to approximately 1.5 feet bgs.

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

Trinity Oilfield Services & Rentals, LLC

Environmental Site Summary & Spill Remediation Plan



Proposed Activities:

OXY proposes to conduct the following activities to progress the Sterling Silver 3 0005 release site to an NMOCD- and BLM-approved closure:

- The areas represented by auger holes SP-1 and SP-2 will be excavated to 6 inches bgs. Based on laboratory analytical results and the limited horizontal and vertical extent of the release and flow path, no additional soil sampling will be conducted at the site, and no additional excavation will be conducted in the areas represented by auger holes SP-3 through SP-8.
- A delineation trench will be advanced to the extent practicable in the area represented by auger hole SP-2 to further investigate the extent of the historical chloride contamination. Soil samples will be collected at 1- to 2-foot intervals and field-screened with a chloride test kit. Representative soil samples will be submitted to the laboratory for analysis of TPH, BTEX, and/or chloride concentrations. Any additional delineation of the historical contamination will be deferred until such time that the production well is decommissioned/abandoned.
- 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.
- Following remediation activities, the excavation will be backfilled with non-impacted material, compacted, and contoured to fit the surrounding topography.
- Upon completion of the aforementioned corrective actions, a "Remediation Summary" 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

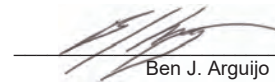
Table 1: Concentrations of Benzene, BTEX, TPH & Chloride in Soil

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

Appendix B: Photographs

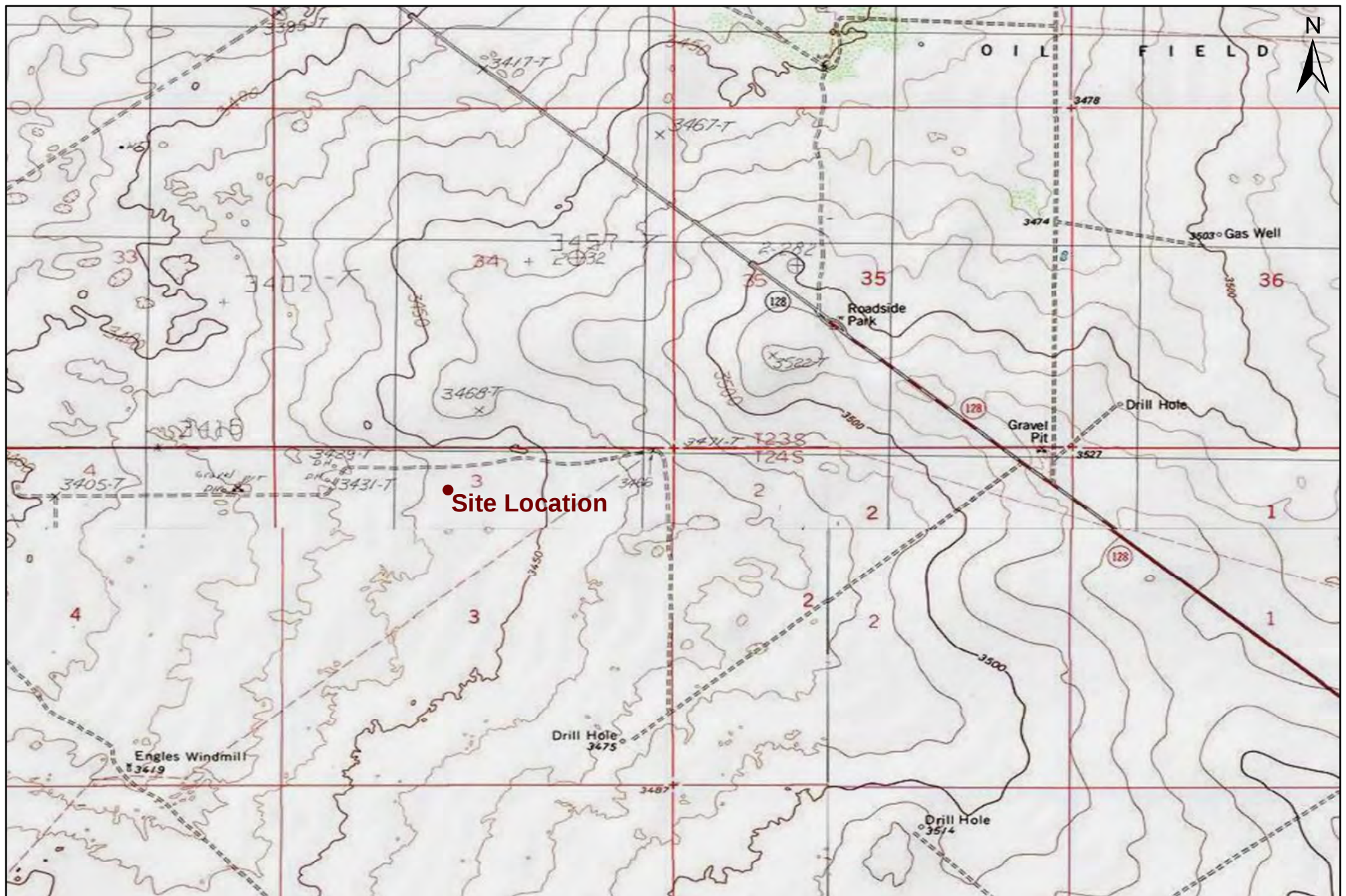
Appendix C: Depth-to-Groundwater Data

Appendix D: Laboratory Analytical Results


Ben J. Arguijo
Project Manager

12/22/2017

Figures



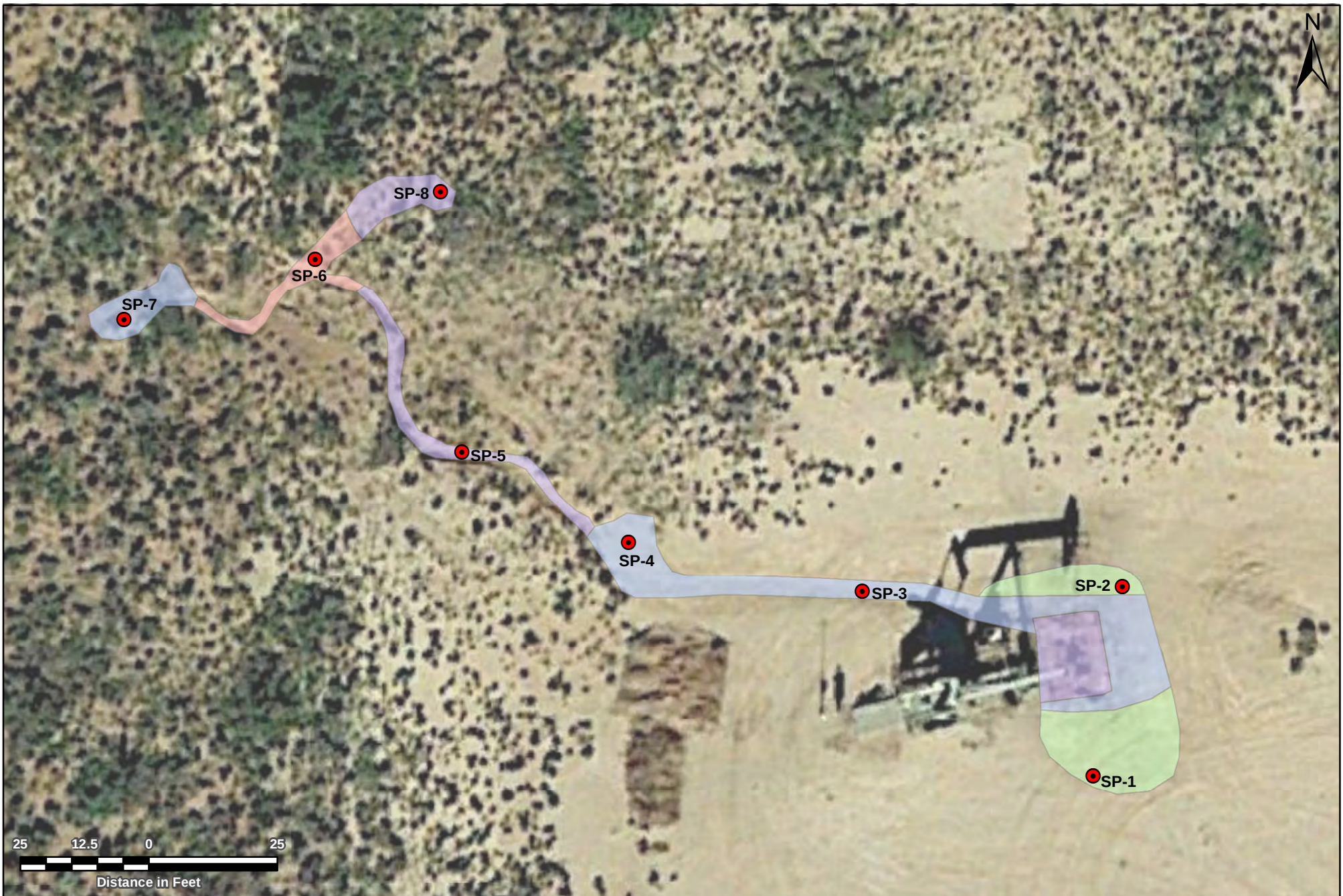
2,000 1,000 0 2,000
Distance in Feet

Figure 1
Site Location Map
OXY USA, Inc.
Sterling Silver 3 0005
Eddy County, New Mexico
NMOCD Reference #: 2RP-4497



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

Drawn By: BJA	Checked By: CTR
September 18, 2017	Scale: 1" = 2,000'



Legend	
Excavation Depths	
 6" bgs	 Sample Location
 1' bgs	 Stained Area
 1.5' bgs	

Figure 2
Sample Location Map
OXY USA, Inc.
Sterling Silver 3 0005
Eddy County, New Mexico
NMOCD Reference #: 2RP-4497



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

Drawn By: BJA	Checked By: CTR
December 22, 2017	Scale: 1" = 25'

Tables

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

OXY USA, INC.
 STERLING SILVER 3 0005
 EDDY COUNTY, NEW MEXICO
 NMOCD REF. #: 2RP-4497



SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030							METHOD: 8015M				300.1
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	M,P-XYLENES (mg/Kg)	O-XYLENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C ₆ -C ₁₂ (mg/Kg)	DRO C ₁₂ -C ₂₈ (mg/Kg)	EXT DRO C ₂₈ -C ₃₅ (mg/Kg)	TPH C ₆ -C ₃₅ (mg/Kg)	CHLORIDE (mg/Kg)
NMOCD Recommended Remediation Action Levels (RRALs)				10	NE	NE	NE	NE	NE	50	NE	NE	NE	5,000	1,000
SP-1 @ 6"	6"	8/23/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	25.6	<15.0	25.6	30.9
SP-2 @ 6"	6"	8/23/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	82.6	<15.0	82.6	104
SP-2 @ 2'	2'	8/23/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	106
SP-2 @ 3'	3'	8/23/2017	In-Situ	-	-	-	-	-	-	-	-	-	-	-	32.7
SP-2 @ 4'	4'	8/23/2017	In-Situ	-	-	-	-	-	-	-	-	-	-	-	146
SP-2 @ 7'	7'	8/23/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	566
SP-2 @ 9'	9'	8/23/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	34.6	<15.0	34.6	733
SP-2 @ 10'	10'	8/23/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	1,260
SP-3 @ 6"	6"	8/23/2017	In-Situ	<0.0040	<0.0040	<0.0040	<0.0072	<0.0040	<0.0040	<0.0040	<15.0	<15.0	<15.0	<15.0	33.8
SP-4 @ 6"	6"	8/23/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	1,290
SP-4 @ 2'	2'	8/23/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	159
SP-5 @ 6"	6"	8/23/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	20.8	<15.0	20.8	400
SP-5 @ 2'	2'	8/23/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<14.9	<14.9	<14.9	<14.9	163
SP-6 @ 6"	6"	8/23/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	1,520	381	1,900	610
SP-7 @ 6"	6"	8/23/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	0.0025	0.0025	0.0025	<14.9	16.5	<14.9	16.5	310
SP-8 @ 6"	6"	8/23/2017	In-Situ	<0.0040	<0.0040	<0.0040	<0.0071	<0.0040	<0.0040	<0.0040	<15.0	<15.0	<15.0	<15.0	3,180
SP-8 @ 1'	1'	8/23/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	112

NE = Not established

- = Not analyzed

Concentrations in BOLD exceed NMOCD RRALs

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

NOV 21 2017

RECEIVED

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

NAB1733255518

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	Sterling Silver 3 0005	Facility Type	P&E
Surface Owner	Federal	Mineral Owner	Federal
		API No.	30-015-27637

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
C	3	24S	31E	660	N	2,310	W	Eddy

Latitude 32.251740 Longitude -103.766190 NAD83

NATURE OF RELEASE

Type of Release	Produced water & crude oil	Volume of Release	11 bbls Produced Water & 1 bbl Crude Oil	Volume Recovered	0 bbls
Source of Release	3" inch steel production line	Date and Hour of Occurrence	8/17/2017, Time unknown	Date and Hour of Discovery	8/17/2017
Was Immediate Notice Given?	☒ Yes ☐ No ☐ Not Required	If YES, To Whom?	Mike Bratcher & Crystal Weaver - NMOCD; Shirley Tucker - BLM		
By Whom?	Wade Dittrich	Date and Hour	8/17/2017, 8:22 PM		
Was a Watercourse Reached?	☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.			

This is a
past due
C-141 Initial
form

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Spill caused by failure of a 3" steel production line. The affected section of the pipe has been repaired.

Describe Area Affected and Cleanup Action Taken.*
The release affected an area of the well pad measuring approximately 2,800 sq. ft. The release also affected an area of the pasture adjacent to the pad measuring approximately 1,700 sq. ft. Remediation of the impacted area will be conducted in accordance with NMOCD and BLM 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:	OIL CONSERVATION DIVISION	
Printed Name: Wade Dittrich	Approved by Environmental Specialist:	
Title: Environmental Coordinator	Approval Date: 11/28/17	Expiration Date: N/A
E-mail Address: wade_dittrich@oxy.com	Conditions of Approval:	Attached ☒ ARP-4497
Date: 9/5/2017	Phone: (575) 390-2828	See attached

* Attach Additional Sheets If Necessary

11/21/17 AB

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	Code	POD Sub- basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C_02464		C	ED	3	4	1	02	24S	31E	617589	3568530*	1445	320	205	115
C_02405		C	ED	4	1	02	24S	31E	617690	3568631*	1513	275	160	115	
C_02460		C	ED			3	02	24S	31E	617496	3568022*	1608	320		
C_02460 POD2		C	ED			3	02	24S	31E	617496	3568022*	1608	320		

Average Depth to Water: 182 feet

Minimum Depth: 160 feet

Maximum Depth: 205 feet

Record Count: 4

UTM NAD83 Radius Search (in meters):

Easting (X): 616224.3

Northing (Y): 3569007.58

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.

9/14/17 9:48 AM

WATER COLUMN/ AVERAGE DEPTH TO
WATER

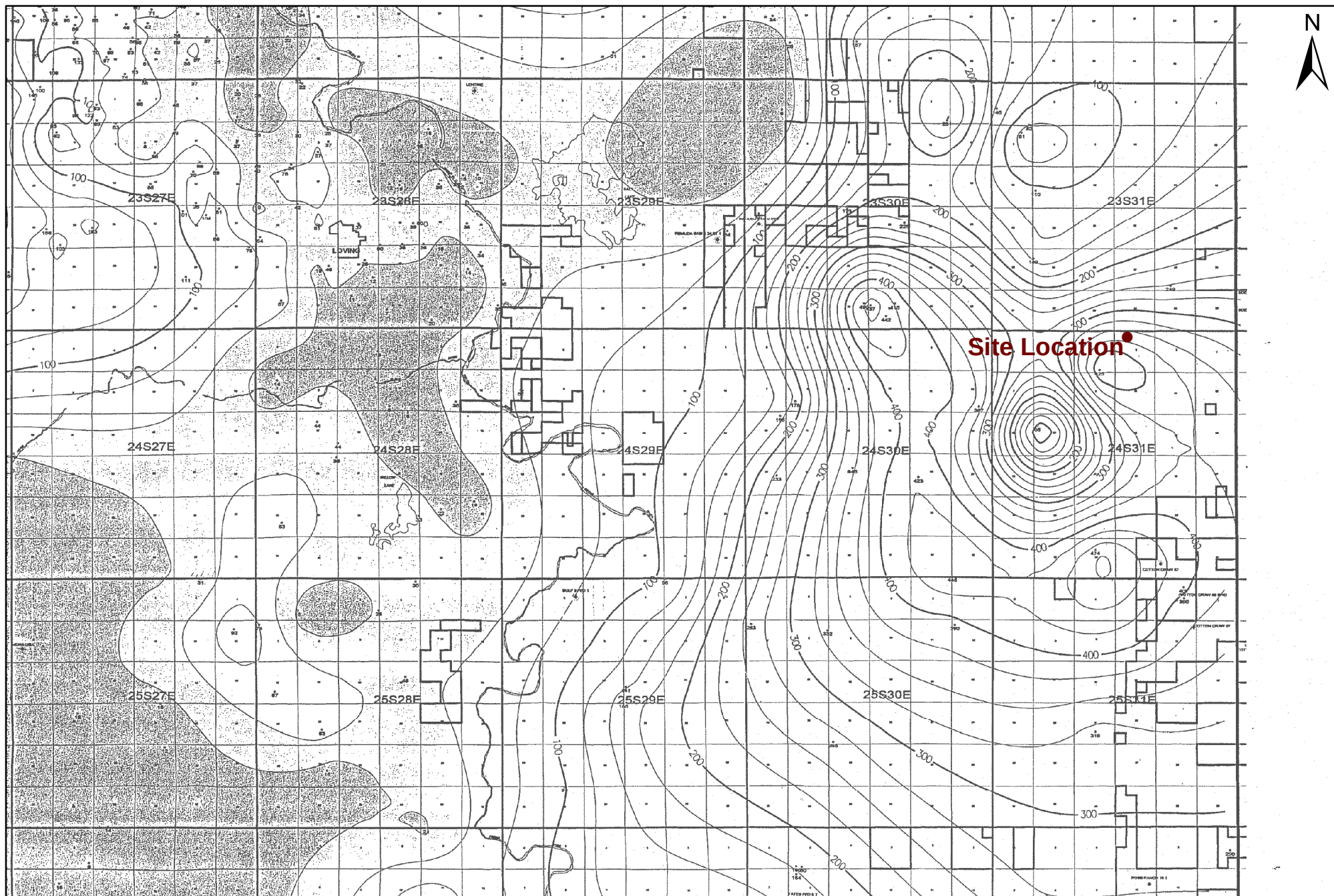


Figure 3
Depth-to-Groundwater Trend Map
OXY USA, Inc.
Sterling Silver 3 0005
Eddy County, New Mexico
NMOCD Reference #: 2RP-4497



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

Drawn By: BJA	Checked By: CTR
December 19, 2017	Not To Scale

Appendix C

Photographs



Sterling Silver 3 0005 - Release (Looking North)



Sterling Silver 3 0005 - Release (Looking West)



Sterling Silver 3 0005 – Release (Looking South)



Sterling Silver 3 0005 – Release (Looking Southwest)



Sterling Silver 3 0005 – Release (Looking West)



Sterling Silver 3 0005 – Release (Looking West-Northwest)



Sterling Silver 3 0005 – Release (Looking Northwest)



Sterling Silver 3 0005 – Release (Looking Northwest)



Sterling Silver 3 0005 – Release (Looking West)



Sterling Silver 3 0005 – Release (Looking North)



Sterling Silver 3 0005 – Release (Looking West)



Sterling Silver 3 0005 – Release (Looking Southeast)



Sterling Silver 3 0005 – Excavation (Looking Northwest)



Sterling Silver 3 0005 – Excavation (Looking Northwest)



Sterling Silver 3 0005 – Excavation (Looking West)



Sterling Silver 3 0005 – Excavation (Looking West)

Appendix D

Laboratory Analytical Reports



Certificate of Analysis Summary 561470

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: Sterling Silver 3 0005



Project Id:

Contact: Ben Arguijo

Project Location:

Date Received in Lab: Mon Aug-28-17 01:05 pm

Report Date: 12-SEP-17

Project Manager: Holly Taylor

Analysis Requested	Lab Id:	561470-001		561470-002		561470-003		561470-004		561470-005		561470-006	
	Field Id:	SP-1 @6"		SP-2 @6"		SP-2 @2'		SP-2 @3'		SP-2 @4'		SP-2 @7'	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Aug-23-17 10:29		Aug-23-17 10:45		Aug-23-17 11:18		Aug-23-17 11:27		Aug-23-17 11:38		Aug-23-17 13:28	
BTEX by EPA 8021B	Extracted:	Sep-07-17 12:00		Sep-07-17 12:00		Sep-07-17 12:00						Sep-07-17 12:00	
	Analyzed:	Sep-07-17 21:44		Sep-07-17 22:03		Sep-07-17 22:22						Sep-07-17 22:41	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL					mg/kg	RL
Benzene		<0.00200	0.00200	<0.00199	0.00199	<0.00199	0.00199					<0.00202	0.00202
Toluene		<0.00200	0.00200	<0.00199	0.00199	<0.00199	0.00199					<0.00202	0.00202
Ethylbenzene		<0.00200	0.00200	<0.00199	0.00199	<0.00199	0.00199					<0.00202	0.00202
m,p-Xylenes		<0.00401	0.00401	<0.00398	0.00398	<0.00398	0.00398					<0.00403	0.00403
o-Xylene		<0.00200	0.00200	<0.00199	0.00199	<0.00199	0.00199					<0.00202	0.00202
Total Xylenes		<0.00200	0.00200	<0.00199	0.00199	<0.00199	0.00199					<0.00202	0.00202
Total BTEX		<0.00200	0.00200	<0.00199	0.00199	<0.00199	0.00199					<0.00202	0.00202
Chloride by EPA 300	Extracted:	Sep-06-17 09:55		Sep-06-17 09:55		Sep-06-17 09:55		Sep-06-17 09:55		Sep-06-17 09:55		Sep-06-17 09:55	
	Analyzed:	Sep-06-17 10:34		Sep-06-17 10:57		Sep-06-17 11:05		Sep-06-17 11:12		Sep-06-17 11:20		Sep-06-17 11:43	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		30.9	2.00	104	2.00	106	1.96	32.7	1.98	146	1.98	566	1.98
TPH By SW8015 Mod	Extracted:	Aug-30-17 18:00		Aug-30-17 18:00		Aug-30-17 18:00						Aug-31-17 16:00	
	Analyzed:	Sep-05-17 09:38		Sep-05-17 09:38		Sep-05-17 09:38						Sep-05-17 09:41	
	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)		25.6	15.0	82.6	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		25.6	15.0	82.6	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

Version: 1.0%

Holly Taylor
Project Manager



Certificate of Analysis Summary 561470

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: Sterling Silver 3 0005



Project Id:

Contact: Ben Arguijo

Project Location:

Date Received in Lab: Mon Aug-28-17 01:05 pm

Report Date: 12-SEP-17

Project Manager: Holly Taylor

Analysis Requested	Lab Id:	561470-007	561470-008	561470-009	561470-010	561470-011	561470-012
	Field Id:	SP-2 @9'	SP-2 @10'	SP-3 @6"	SP-4 @6"	SP-4 @2'	SP-5 @6"
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Aug-23-17 13:49	Aug-23-17 13:56	Aug-23-17 11:09	Aug-23-17 11:30	Aug-23-17 11:57	Aug-23-17 11:53
BTEX by EPA 8021B	Extracted:	Sep-07-17 12:00	Sep-07-17 12:00	Sep-08-17 08:30	Sep-07-17 12:00	Sep-07-17 12:00	Sep-07-17 12:00
	Analyzed:	Sep-07-17 23:00	Sep-07-17 23:19	Sep-08-17 10:28	Sep-07-17 23:57	Sep-08-17 00:15	Sep-08-17 00:34
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00201 0.00201	<0.00200 0.00200	<0.00360 0.00360	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199
Toluene		<0.00201 0.00201	<0.00200 0.00200	<0.00360 0.00360	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199
Ethylbenzene		<0.00201 0.00201	<0.00200 0.00200	<0.00360 0.00360	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199
m,p-Xylenes		<0.00402 0.00402	<0.00399 0.00399	<0.00719 0.00719	<0.00401 0.00401	<0.00402 0.00402	<0.00398 0.00398
o-Xylene		<0.00201 0.00201	<0.00200 0.00200	<0.00360 0.00360	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199
Total Xylenes		<0.00201 0.00201	<0.00200 0.00200	<0.00360 0.00360	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199
Total BTEX		<0.00201 0.00201	<0.00200 0.00200	<0.00360 0.00360	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199
Chloride by EPA 300	Extracted:	Sep-06-17 09:55	Sep-06-17 11:05	Sep-07-17 10:35	Sep-07-17 10:35	Sep-07-17 10:35	Sep-07-17 10:35
	Analyzed:	Sep-06-17 11:51	Sep-06-17 11:58	Sep-07-17 11:18	Sep-07-17 11:43	Sep-07-17 11:51	Sep-07-17 11:59
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		733 9.98	1260 5.00	33.8 4.97	1290 4.92	159 4.94	400 4.92
TPH By SW8015 Mod	Extracted:	Aug-30-17 18:00	Aug-30-17 18:00	Aug-30-17 18:00	Aug-30-17 18:00	Aug-30-17 18:00	Aug-30-17 18:00
	Analyzed:	Sep-05-17 09:38	Sep-05-17 09:38	Aug-31-17 01:11	Aug-31-17 01:32	Aug-31-17 01:53	Aug-31-17 02:13
	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)		34.6 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	20.8 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		34.6 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	20.8 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.

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Version: 1.9%

Holly Taylor
Project Manager



Certificate of Analysis Summary 561470

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: Sterling Silver 3 0005



Project Id:

Contact: Ben Arguijo

Project Location:

Date Received in Lab: Mon Aug-28-17 01:05 pm

Report Date: 12-SEP-17

Project Manager: Holly Taylor

Analysis Requested	Lab Id:	561470-013	561470-014	561470-015	561470-016	561470-017	
	Field Id:	SP-5 @2'	SP-6 @6"	SP-7 @6"	SP-8 @6"	SP-8 @1'	
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	
	Sampled:	Aug-23-17 12:25	Aug-23-17 12:14	Aug-23-17 13:28	Aug-23-17 12:48	Aug-23-17 12:48	
BTEX by EPA 8021B	Extracted:	Sep-07-17 12:00	Sep-07-17 12:00	Sep-07-17 12:00	Sep-08-17 08:30	Sep-07-17 12:00	
	Analyzed:	Sep-08-17 01:31	Sep-08-17 01:49	Sep-08-17 02:08	Sep-08-17 10:46	Sep-08-17 02:46	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Benzene		<0.00198 0.00198	<0.00201 0.00201	<0.00199 0.00199	<0.00353 0.00353	<0.00201 0.00201	
Toluene		<0.00198 0.00198	<0.00201 0.00201	<0.00199 0.00199	<0.00353 0.00353	<0.00201 0.00201	
Ethylbenzene		<0.00198 0.00198	<0.00201 0.00201	<0.00199 0.00199	<0.00353 0.00353	<0.00201 0.00201	
m,p-Xylenes		<0.00396 0.00396	<0.00402 0.00402	<0.00398 0.00398	<0.00707 0.00707	<0.00402 0.00402	
o-Xylene		<0.00198 0.00198	<0.00201 0.00201	0.00251 K 0.00199	<0.00353 0.00353	<0.00201 0.00201	
Total Xylenes		<0.00198 0.00198	<0.00201 0.00201	0.00251 K 0.00199	<0.00353 0.00353	<0.00201 0.00201	
Total BTEX		<0.00198 0.00198	<0.00201 0.00201	0.00251 K 0.00199	<0.00353 0.00353	<0.00201 0.00201	
Chloride by EPA 300	Extracted:	Sep-07-17 10:35	Sep-07-17 10:35	Sep-07-17 10:35	Sep-07-17 10:35	Sep-07-17 10:35	
	Analyzed:	Sep-07-17 12:07	Sep-07-17 12:32	Sep-07-17 12:40	Sep-07-17 12:48	Sep-07-17 12:57	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Chloride		163 4.96	610 4.96	310 4.99	3180 25.0	112 5.00	
TPH By SW8015 Mod	Extracted:	Aug-30-17 18:00	Aug-30-17 18:00	Aug-30-17 18:00	Aug-30-17 18:00	Aug-30-17 18:00	
	Analyzed:	Aug-31-17 02:35	Aug-31-17 03:36	Aug-31-17 03:58	Aug-31-17 04:18	Aug-31-17 04:39	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Gasoline Range Hydrocarbons (GRO)		<14.9 14.9	<15.0 15.0	<14.9 14.9	<15.0 15.0	<15.0 15.0	
Diesel Range Organics (DRO)		<14.9 14.9	1520 15.0	16.5 14.9	<15.0 15.0	<15.0 15.0	
Oil Range Hydrocarbons (ORO)		<14.9 14.9	381 15.0	<14.9 14.9	<15.0 15.0	<15.0 15.0	
Total TPH		<14.9 14.9	1900 15.0	16.5 14.9	<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.

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Holly Taylor
Project Manager

Analytical Report 561470
for
Trinity Oilfield Services & Rentals, LLC

Project Manager: Ben Arguijo

Sterling Silver 3 0005

12-SEP-17

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

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

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



12-SEP-17

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

Reference: XENCO Report No(s): **561470**
Sterling Silver 3 0005
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) 561470. 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. 561470 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 561470



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Sterling Silver 3 0005

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SP-1 @6"	S	08-23-17 10:29		561470-001
SP-2 @6"	S	08-23-17 10:45		561470-002
SP-2 @2'	S	08-23-17 11:18		561470-003
SP-2 @3'	S	08-23-17 11:27		561470-004
SP-2 @4'	S	08-23-17 11:38		561470-005
SP-2 @7'	S	08-23-17 13:28		561470-006
SP-2 @9'	S	08-23-17 13:49		561470-007
SP-2 @10'	S	08-23-17 13:56		561470-008
SP-3 @6"	S	08-23-17 11:09		561470-009
SP-4 @6"	S	08-23-17 11:30		561470-010
SP-4 @2'	S	08-23-17 11:57		561470-011
SP-5 @6"	S	08-23-17 11:53		561470-012
SP-5 @2'	S	08-23-17 12:25		561470-013
SP-6 @6"	S	08-23-17 12:14		561470-014
SP-7 @6"	S	08-23-17 13:28		561470-015
SP-8 @6"	S	08-23-17 12:48		561470-016
SP-8 @1'	S	08-23-17 12:48		561470-017



CASE NARRATIVE

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

Project Name: *Sterling Silver 3 0005*

Project ID:
Work Order Number(s): 561470

Report Date: 12-SEP-17
Date Received: 08/28/2017

Sample receipt non conformances and comments:

8/31/17 Per Ben Arguijo: Run Cl on all samples and add TPH to sample 006.

9/7/17 Analyze all samples for BTEX per Ben Arguijo.

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3026932 Chloride by EPA 300

Lab Sample ID 561472-002 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 561470-009, -010, -011, -012, -013, -014, -015, -016, -017.

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

Batch: LBA-3027032 BTEX by EPA 8021B

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

Batch: LBA-3027189 BTEX by EPA 8021B

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



Certificate of Analytical Results 561470



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Sterling Silver 3 0005

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

Matrix: Soil

Date Received: 08.28.17 13.05

Lab Sample Id: 561470-001

Date Collected: 08.23.17 10.29

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 09.06.17 09.55

Basis: Wet Weight

Seq Number: 3027144

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	30.9	2.00	mg/kg	09.06.17 10.34		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 08.30.17 18.00

Basis: Wet Weight

Seq Number: 3026607

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.05.17 09.38	U	1
Diesel Range Organics (DRO)	C10C28DRO	25.6	15.0	mg/kg	09.05.17 09.38		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	09.05.17 09.38	U	1
Total TPH	PHC635	25.6	15.0	mg/kg	09.05.17 09.38		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	110	%	70-135	09.05.17 09.38		
o-Terphenyl	84-15-1	108	%	70-135	09.05.17 09.38		



Certificate of Analytical Results 561470



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Sterling Silver 3 0005

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

Matrix: Soil

Date Received: 08.28.17 13.05

Lab Sample Id: 561470-001

Date Collected: 08.23.17 10.29

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.07.17 12.00

Basis: Wet Weight

Seq Number: 3027032

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.07.17 21.44	UK	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.07.17 21.44	UK	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.07.17 21.44	UK	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	09.07.17 21.44	UK	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.07.17 21.44	UK	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.07.17 21.44	UK	1
Total BTEX		<0.00200	0.00200	mg/kg	09.07.17 21.44	UK	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	81	%	80-120	09.07.17 21.44		
1,4-Difluorobenzene	540-36-3	92	%	80-120	09.07.17 21.44		



Certificate of Analytical Results 561470



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Sterling Silver 3 0005

Sample Id: SP-2 @6"

Matrix: Soil

Date Received: 08.28.17 13.05

Lab Sample Id: 561470-002

Date Collected: 08.23.17 10.45

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 09.06.17 09.55

Basis: Wet Weight

Seq Number: 3027144

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	104	2.00	mg/kg	09.06.17 10.57		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 08.30.17 18.00

Basis: Wet Weight

Seq Number: 3026607

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.05.17 09.38	U	1
Diesel Range Organics (DRO)	C10C28DRO	82.6	15.0	mg/kg	09.05.17 09.38		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	09.05.17 09.38	U	1
Total TPH	PHC635	82.6	15.0	mg/kg	09.05.17 09.38		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	97	%	70-135	09.05.17 09.38		
o-Terphenyl	84-15-1	97	%	70-135	09.05.17 09.38		



Certificate of Analytical Results 561470



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Sterling Silver 3 0005

Sample Id: SP-2 @6"

Matrix: Soil

Date Received: 08.28.17 13.05

Lab Sample Id: 561470-002

Date Collected: 08.23.17 10.45

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.07.17 12.00

Basis: Wet Weight

Seq Number: 3027032

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.07.17 22.03	UK	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.07.17 22.03	UK	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.07.17 22.03	UK	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.07.17 22.03	UK	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.07.17 22.03	UK	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.07.17 22.03	UK	1
Total BTEX		<0.00199	0.00199	mg/kg	09.07.17 22.03	UK	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	93	%	80-120	09.07.17 22.03		
4-Bromofluorobenzene	460-00-4	82	%	80-120	09.07.17 22.03		



Certificate of Analytical Results 561470



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Sterling Silver 3 0005

Sample Id: SP-2 @2'
Lab Sample Id: 561470-003

Matrix: Soil
Date Collected: 08.23.17 11.18

Date Received: 08.28.17 13.05

Analytical Method: Chloride by EPA 300

Tech: MNV

Analyst: MNV

Seq Number: 3027144

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Date Prep: 09.06.17 09.55

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	106	1.96	mg/kg	09.06.17 11.05		1

Analytical Method: TPH By SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3026607

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

Date Prep: 08.30.17 18.00

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.05.17 09.38	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	09.05.17 09.38	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	09.05.17 09.38	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	09.05.17 09.38	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	97	%	70-135	09.05.17 09.38		
o-Terphenyl	84-15-1	98	%	70-135	09.05.17 09.38		



Certificate of Analytical Results 561470



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Sterling Silver 3 0005

Sample Id: **SP-2 @2'**
Lab Sample Id: 561470-003

Matrix: Soil
Date Collected: 08.23.17 11.18

Date Received: 08.28.17 13.05

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.07.17 12.00

Basis: Wet Weight

Seq Number: 3027032

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.07.17 22.22	UK	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.07.17 22.22	UK	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.07.17 22.22	UK	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.07.17 22.22	UK	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.07.17 22.22	UK	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.07.17 22.22	UK	1
Total BTEX		<0.00199	0.00199	mg/kg	09.07.17 22.22	UK	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	82	%	80-120	09.07.17 22.22		
1,4-Difluorobenzene	540-36-3	93	%	80-120	09.07.17 22.22		



Certificate of Analytical Results 561470



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Sterling Silver 3 0005

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

Matrix: Soil

Date Received: 08.28.17 13.05

Lab Sample Id: 561470-004

Date Collected: 08.23.17 11.27

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 09.06.17 09.55

Basis: Wet Weight

Seq Number: 3027144

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	32.7	1.98	mg/kg	09.06.17 11.12		1



Certificate of Analytical Results 561470



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Sterling Silver 3 0005

Sample Id: **SP-2 @4'**
Lab Sample Id: 561470-005

Matrix: Soil
Date Collected: 08.23.17 11.38

Date Received: 08.28.17 13.05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 09.06.17 09.55

Basis: Wet Weight

Seq Number: 3027144

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	146	1.98	mg/kg	09.06.17 11.20		1



Certificate of Analytical Results 561470



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Sterling Silver 3 0005

Sample Id: **SP-2 @7'**
Lab Sample Id: 561470-006

Matrix: Soil
Date Collected: 08.23.17 13.28

Date Received: 08.28.17 13.05

Analytical Method: Chloride by EPA 300

Tech: MNV

Analyst: MNV

Seq Number: 3027144

Prep Method: E300P

% Moisture:

Date Prep: 09.06.17 09.55

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	566	1.98	mg/kg	09.06.17 11.43		1

Analytical Method: TPH By SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3026608

Prep Method: TX1005P

% Moisture:

Date Prep: 08.31.17 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	09.05.17 09.41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	09.05.17 09.41	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	09.05.17 09.41	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	09.05.17 09.41	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	99	%	70-135	09.05.17 09.41		
o-Terphenyl	84-15-1	99	%	70-135	09.05.17 09.41		



Certificate of Analytical Results 561470



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Sterling Silver 3 0005

Sample Id: **SP-2 @7'**
Lab Sample Id: 561470-006

Matrix: Soil
Date Collected: 08.23.17 13.28

Date Received: 08.28.17 13.05

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.07.17 12.00

Basis: Wet Weight

Seq Number: 3027032

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	09.07.17 22.41	UK	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	09.07.17 22.41	UK	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	09.07.17 22.41	UK	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	09.07.17 22.41	UK	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	09.07.17 22.41	UK	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	09.07.17 22.41	UK	1
Total BTEX		<0.00202	0.00202	mg/kg	09.07.17 22.41	UK	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	94	%	80-120	09.07.17 22.41		
4-Bromofluorobenzene	460-00-4	82	%	80-120	09.07.17 22.41		



Certificate of Analytical Results 561470



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Sterling Silver 3 0005

Sample Id: **SP-2 @9'**
Lab Sample Id: 561470-007

Matrix: Soil
Date Collected: 08.23.17 13.49

Date Received: 08.28.17 13.05

Analytical Method: Chloride by EPA 300

Tech: MNV

Analyst: MNV

Seq Number: 3027144

Prep Method: E300P

% Moisture:

Date Prep: 09.06.17 09.55

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	733	9.98	mg/kg	09.06.17 11.51		5

Analytical Method: TPH By SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3026607

Prep Method: TX1005P

% Moisture:

Date Prep: 08.30.17 18.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.05.17 09.38	U	1
Diesel Range Organics (DRO)	C10C28DRO	34.6	15.0	mg/kg	09.05.17 09.38		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	09.05.17 09.38	U	1
Total TPH	PHC635	34.6	15.0	mg/kg	09.05.17 09.38		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	97	%	70-135	09.05.17 09.38		
o-Terphenyl	84-15-1	97	%	70-135	09.05.17 09.38		



Certificate of Analytical Results 561470



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Sterling Silver 3 0005

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

Matrix: Soil

Date Received: 08.28.17 13.05

Lab Sample Id: 561470-007

Date Collected: 08.23.17 13.49

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.07.17 12.00

Basis: Wet Weight

Seq Number: 3027032

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.07.17 23.00	UK	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	09.07.17 23.00	UK	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.07.17 23.00	UK	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.07.17 23.00	UK	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.07.17 23.00	UK	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.07.17 23.00	UK	1
Total BTEX		<0.00201	0.00201	mg/kg	09.07.17 23.00	UK	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	82	%	80-120	09.07.17 23.00		
1,4-Difluorobenzene	540-36-3	97	%	80-120	09.07.17 23.00		



Certificate of Analytical Results 561470



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Sterling Silver 3 0005

Sample Id: SP-2 @10'

Matrix: Soil

Date Received: 08.28.17 13.05

Lab Sample Id: 561470-008

Date Collected: 08.23.17 13.56

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 09.06.17 11.05

Basis: Wet Weight

Seq Number: 3027144

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1260	5.00	mg/kg	09.06.17 11.58		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 08.30.17 18.00

Basis: Wet Weight

Seq Number: 3026607

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.05.17 09.38	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	09.05.17 09.38	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	09.05.17 09.38	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	09.05.17 09.38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	09.05.17 09.38	
o-Terphenyl	84-15-1	96	%	70-135	09.05.17 09.38	



Certificate of Analytical Results 561470



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Sterling Silver 3 0005

Sample Id: **SP-2 @10'**

Matrix: Soil

Date Received: 08.28.17 13.05

Lab Sample Id: 561470-008

Date Collected: 08.23.17 13.56

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.07.17 12.00

Basis: Wet Weight

Seq Number: 3027032

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.07.17 23.19	UK	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.07.17 23.19	UK	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.07.17 23.19	UK	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	09.07.17 23.19	UK	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.07.17 23.19	UK	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.07.17 23.19	UK	1
Total BTEX		<0.00200	0.00200	mg/kg	09.07.17 23.19	UK	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	80	%	80-120	09.07.17 23.19		
1,4-Difluorobenzene	540-36-3	93	%	80-120	09.07.17 23.19		



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Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Sterling Silver 3 0005

Sample Id: SP-3 @6"

Matrix: Soil

Date Received: 08.28.17 13.05

Lab Sample Id: 561470-009

Date Collected: 08.23.17 11.09

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 09.07.17 10.35

Basis: Wet Weight

Seq Number: 3026932

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	33.8	4.97	mg/kg	09.07.17 11.18		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 08.30.17 18.00

Basis: Wet Weight

Seq Number: 3026607

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	08.31.17 01.11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	08.31.17 01.11	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	08.31.17 01.11	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	08.31.17 01.11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-135	08.31.17 01.11	
o-Terphenyl	84-15-1	96	%	70-135	08.31.17 01.11	



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Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Sterling Silver 3 0005

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

Matrix: Soil

Date Received: 08.28.17 13.05

Lab Sample Id: 561470-009

Date Collected: 08.23.17 11.09

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.08.17 08.30

Basis: Wet Weight

Seq Number: 3027189

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00360	0.00360	mg/kg	09.08.17 10.28	UK	1
Toluene	108-88-3	<0.00360	0.00360	mg/kg	09.08.17 10.28	UK	1
Ethylbenzene	100-41-4	<0.00360	0.00360	mg/kg	09.08.17 10.28	UK	1
m,p-Xylenes	179601-23-1	<0.00719	0.00719	mg/kg	09.08.17 10.28	UK	1
o-Xylene	95-47-6	<0.00360	0.00360	mg/kg	09.08.17 10.28	UK	1
Total Xylenes	1330-20-7	<0.00360	0.00360	mg/kg	09.08.17 10.28	UK	1
Total BTEX		<0.00360	0.00360	mg/kg	09.08.17 10.28	UK	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	97	%	80-120	09.08.17 10.28		
4-Bromofluorobenzene	460-00-4	81	%	80-120	09.08.17 10.28		



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Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Sterling Silver 3 0005

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

Matrix: Soil

Date Received: 08.28.17 13.05

Lab Sample Id: 561470-010

Date Collected: 08.23.17 11.30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 09.07.17 10.35

Basis: Wet Weight

Seq Number: 3026932

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1290	4.92	mg/kg	09.07.17 11.43		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 08.30.17 18.00

Basis: Wet Weight

Seq Number: 3026607

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	08.31.17 01.32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	08.31.17 01.32	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	08.31.17 01.32	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	08.31.17 01.32	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	113	%	70-135	08.31.17 01.32		
o-Terphenyl	84-15-1	110	%	70-135	08.31.17 01.32		



Certificate of Analytical Results 561470



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Sterling Silver 3 0005

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

Matrix: Soil

Date Received: 08.28.17 13.05

Lab Sample Id: 561470-010

Date Collected: 08.23.17 11.30

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.07.17 12.00

Basis: Wet Weight

Seq Number: 3027032

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.07.17 23.57	UK	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.07.17 23.57	UK	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.07.17 23.57	UK	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	09.07.17 23.57	UK	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.07.17 23.57	UK	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.07.17 23.57	UK	1
Total BTEX		<0.00200	0.00200	mg/kg	09.07.17 23.57	UK	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	82	%	80-120	09.07.17 23.57		
1,4-Difluorobenzene	540-36-3	93	%	80-120	09.07.17 23.57		



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Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Sterling Silver 3 0005

Sample Id: **SP-4 @2'**
Lab Sample Id: 561470-011

Matrix: Soil
Date Collected: 08.23.17 11.57

Date Received: 08.28.17 13.05

Analytical Method: Chloride by EPA 300

Tech: MNV

Analyst: MNV

Seq Number: 3026932

Prep Method: E300P

% Moisture:

Date Prep: 09.07.17 10.35

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	159	4.94	mg/kg	09.07.17 11.51		1

Analytical Method: TPH By SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3026607

Prep Method: TX1005P

% Moisture:

Date Prep: 08.30.17 18.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	08.31.17 01.53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	08.31.17 01.53	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	08.31.17 01.53	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	08.31.17 01.53	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	93	%	70-135	08.31.17 01.53		
o-Terphenyl	84-15-1	91	%	70-135	08.31.17 01.53		



Certificate of Analytical Results 561470



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Sterling Silver 3 0005

Sample Id: **SP-4 @2'**
Lab Sample Id: 561470-011

Matrix: Soil
Date Collected: 08.23.17 11.57

Date Received: 08.28.17 13.05

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.07.17 12.00

Basis: Wet Weight

Seq Number: 3027032

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.08.17 00.15	UK	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	09.08.17 00.15	UK	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.08.17 00.15	UK	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.08.17 00.15	UK	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.08.17 00.15	UK	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.08.17 00.15	UK	1
Total BTEX		<0.00201	0.00201	mg/kg	09.08.17 00.15	UK	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	81	%	80-120	09.08.17 00.15		
1,4-Difluorobenzene	540-36-3	95	%	80-120	09.08.17 00.15		



Certificate of Analytical Results 561470



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Sterling Silver 3 0005

Sample Id: SP-5 @6"

Matrix: Soil

Date Received: 08.28.17 13.05

Lab Sample Id: 561470-012

Date Collected: 08.23.17 11.53

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 09.07.17 10.35

Basis: Wet Weight

Seq Number: 3026932

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	400	4.92	mg/kg	09.07.17 11.59		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 08.30.17 18.00

Basis: Wet Weight

Seq Number: 3026607

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	08.31.17 02.13	U	1
Diesel Range Organics (DRO)	C10C28DRO	20.8	15.0	mg/kg	08.31.17 02.13		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	08.31.17 02.13	U	1
Total TPH	PHC635	20.8	15.0	mg/kg	08.31.17 02.13		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	08.31.17 02.13	
o-Terphenyl	84-15-1	97	%	70-135	08.31.17 02.13	



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Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Sterling Silver 3 0005

Sample Id: SP-5 @6"

Matrix: Soil

Date Received: 08.28.17 13.05

Lab Sample Id: 561470-012

Date Collected: 08.23.17 11.53

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.07.17 12.00

Basis: Wet Weight

Seq Number: 3027032

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.08.17 00.34	UK	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.08.17 00.34	UK	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.08.17 00.34	UK	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.08.17 00.34	UK	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.08.17 00.34	UK	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.08.17 00.34	UK	1
Total BTEX		<0.00199	0.00199	mg/kg	09.08.17 00.34	UK	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	80	%	80-120	09.08.17 00.34		
1,4-Difluorobenzene	540-36-3	95	%	80-120	09.08.17 00.34		



Certificate of Analytical Results 561470



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Sterling Silver 3 0005

Sample Id: SP-5 @2'
Lab Sample Id: 561470-013

Matrix: Soil
Date Collected: 08.23.17 12.25

Date Received: 08.28.17 13.05

Analytical Method: Chloride by EPA 300

Tech: MNV

Analyst: MNV

Seq Number: 3026932

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Date Prep: 09.07.17 10.35

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	163	4.96	mg/kg	09.07.17 12.07		1

Analytical Method: TPH By SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3026607

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

Date Prep: 08.30.17 18.00

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	08.31.17 02.35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	08.31.17 02.35	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<14.9	14.9	mg/kg	08.31.17 02.35	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	08.31.17 02.35	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	97	%	70-135	08.31.17 02.35		
o-Terphenyl	84-15-1	96	%	70-135	08.31.17 02.35		



Certificate of Analytical Results 561470



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Sterling Silver 3 0005

Sample Id: **SP-5 @2'**
Lab Sample Id: 561470-013

Matrix: Soil
Date Collected: 08.23.17 12.25

Date Received: 08.28.17 13.05

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.07.17 12.00

Basis: Wet Weight

Seq Number: 3027032

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	09.08.17 01.31	UK	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	09.08.17 01.31	UK	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	09.08.17 01.31	UK	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	09.08.17 01.31	UK	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	09.08.17 01.31	UK	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	09.08.17 01.31	UK	1
Total BTEX		<0.00198	0.00198	mg/kg	09.08.17 01.31	UK	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	96	%	80-120	09.08.17 01.31		
4-Bromofluorobenzene	460-00-4	83	%	80-120	09.08.17 01.31		



Certificate of Analytical Results 561470



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Sterling Silver 3 0005

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

Matrix: Soil

Date Received: 08.28.17 13.05

Lab Sample Id: 561470-014

Date Collected: 08.23.17 12.14

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 09.07.17 10.35

Basis: Wet Weight

Seq Number: 3026932

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	610	4.96	mg/kg	09.07.17 12.32		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 08.30.17 18.00

Basis: Wet Weight

Seq Number: 3026607

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	08.31.17 03.36	U	1
Diesel Range Organics (DRO)	C10C28DRO	1520	15.0	mg/kg	08.31.17 03.36		1
Oil Range Hydrocarbons (ORO)	PHCG2835	381	15.0	mg/kg	08.31.17 03.36		1
Total TPH	PHC635	1900	15.0	mg/kg	08.31.17 03.36		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	111	%	70-135	08.31.17 03.36		
o-Terphenyl	84-15-1	90	%	70-135	08.31.17 03.36		



Certificate of Analytical Results 561470



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Sterling Silver 3 0005

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

Matrix: Soil

Date Received: 08.28.17 13.05

Lab Sample Id: 561470-014

Date Collected: 08.23.17 12.14

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.07.17 12.00

Basis: Wet Weight

Seq Number: 3027032

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.08.17 01.49	UK	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	09.08.17 01.49	UK	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.08.17 01.49	UK	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.08.17 01.49	UK	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.08.17 01.49	UK	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.08.17 01.49	UK	1
Total BTEX		<0.00201	0.00201	mg/kg	09.08.17 01.49	UK	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	94	%	80-120	09.08.17 01.49		
4-Bromofluorobenzene	460-00-4	82	%	80-120	09.08.17 01.49		



Certificate of Analytical Results 561470



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Sterling Silver 3 0005

Sample Id: **SP-7 @6"**
Lab Sample Id: 561470-015

Matrix: Soil
Date Collected: 08.23.17 13.28

Date Received: 08.28.17 13.05

Analytical Method: Chloride by EPA 300
Tech: MNV
Analyst: MNV
Seq Number: 3026932

Prep Method: E300P
% Moisture:
Basis: Wet Weight
Date Prep: 09.07.17 10.35

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	310	4.99	mg/kg	09.07.17 12.40		1

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3026607

Prep Method: TX1005P
% Moisture:
Basis: Wet Weight
Date Prep: 08.30.17 18.00

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	08.31.17 03.58	U	1
Diesel Range Organics (DRO)	C10C28DRO	16.5	14.9	mg/kg	08.31.17 03.58		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<14.9	14.9	mg/kg	08.31.17 03.58	U	1
Total TPH	PHC635	16.5	14.9	mg/kg	08.31.17 03.58		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	98	%	70-135	08.31.17 03.58		
o-Terphenyl	84-15-1	99	%	70-135	08.31.17 03.58		



Certificate of Analytical Results 561470



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Sterling Silver 3 0005

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

Matrix: Soil

Date Received: 08.28.17 13.05

Lab Sample Id: 561470-015

Date Collected: 08.23.17 13.28

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.07.17 12.00

Basis: Wet Weight

Seq Number: 3027032

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.08.17 02.08	UK	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.08.17 02.08	UK	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.08.17 02.08	UK	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.08.17 02.08	UK	1
o-Xylene	95-47-6	0.00251	0.00199	mg/kg	09.08.17 02.08	K	1
Total Xylenes	1330-20-7	0.00251	0.00199	mg/kg	09.08.17 02.08	K	1
Total BTEX		0.00251	0.00199	mg/kg	09.08.17 02.08	K	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	98	%	80-120	09.08.17 02.08		
4-Bromofluorobenzene	460-00-4	84	%	80-120	09.08.17 02.08		



Certificate of Analytical Results 561470



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Sterling Silver 3 0005

Sample Id: **SP-8 @6"**
Lab Sample Id: 561470-016

Matrix: Soil
Date Collected: 08.23.17 12.48

Date Received: 08.28.17 13.05

Analytical Method: Chloride by EPA 300
Tech: MNV
Analyst: MNV
Seq Number: 3026932

Prep Method: E300P
% Moisture:
Date Prep: 09.07.17 10.35
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3180	25.0	mg/kg	09.07.17 12.48		5

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3026607

Prep Method: TX1005P
% Moisture:
Date Prep: 08.30.17 18.00
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	08.31.17 04.18	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	08.31.17 04.18	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	08.31.17 04.18	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	08.31.17 04.18	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	93	%	70-135	08.31.17 04.18		
o-Terphenyl	84-15-1	93	%	70-135	08.31.17 04.18		



Certificate of Analytical Results 561470



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Sterling Silver 3 0005

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

Matrix: Soil

Date Received: 08.28.17 13.05

Lab Sample Id: 561470-016

Date Collected: 08.23.17 12.48

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.08.17 08.30

Basis: Wet Weight

Seq Number: 3027189

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00353	0.00353	mg/kg	09.08.17 10.46	UK	1
Toluene	108-88-3	<0.00353	0.00353	mg/kg	09.08.17 10.46	UK	1
Ethylbenzene	100-41-4	<0.00353	0.00353	mg/kg	09.08.17 10.46	UK	1
m,p-Xylenes	179601-23-1	<0.00707	0.00707	mg/kg	09.08.17 10.46	UK	1
o-Xylene	95-47-6	<0.00353	0.00353	mg/kg	09.08.17 10.46	UK	1
Total Xylenes	1330-20-7	<0.00353	0.00353	mg/kg	09.08.17 10.46	UK	1
Total BTEX		<0.00353	0.00353	mg/kg	09.08.17 10.46	UK	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	94	%	80-120	09.08.17 10.46		
4-Bromofluorobenzene	460-00-4	82	%	80-120	09.08.17 10.46		



Certificate of Analytical Results 561470



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Sterling Silver 3 0005

Sample Id: **SP-8 @1'**
Lab Sample Id: 561470-017

Matrix: Soil
Date Collected: 08.23.17 12.48

Date Received: 08.28.17 13.05

Analytical Method: Chloride by EPA 300

Tech: MNV

Analyst: MNV

Seq Number: 3026932

Prep Method: E300P

% Moisture:

Date Prep: 09.07.17 10.35

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	112	5.00	mg/kg	09.07.17 12.57		1

Analytical Method: TPH By SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3026607

Prep Method: TX1005P

% Moisture:

Date Prep: 08.30.17 18.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	08.31.17 04.39	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	08.31.17 04.39	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	08.31.17 04.39	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	08.31.17 04.39	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	98	%	70-135	08.31.17 04.39		
o-Terphenyl	84-15-1	96	%	70-135	08.31.17 04.39		



Certificate of Analytical Results 561470



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Sterling Silver 3 0005

Sample Id: **SP-8 @1'**
Lab Sample Id: 561470-017

Matrix: Soil
Date Collected: 08.23.17 12.48

Date Received: 08.28.17 13.05

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.07.17 12.00

Basis: Wet Weight

Seq Number: 3027032

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.08.17 02.46	UK	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	09.08.17 02.46	UK	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.08.17 02.46	UK	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.08.17 02.46	UK	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.08.17 02.46	UK	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.08.17 02.46	UK	1
Total BTEX		<0.00201	0.00201	mg/kg	09.08.17 02.46	UK	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	97	%	80-120	09.08.17 02.46		
4-Bromofluorobenzene	460-00-4	84	%	80-120	09.08.17 02.46		

- 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
Sterling Silver 3 0005**Analytical Method: Chloride by EPA 300**

Seq Number: 3027144

MB Sample Id: 730453-1-BLK

Matrix: Solid

LCS Sample Id: 730453-1-BKS

Prep Method: E300P

Date Prep: 09.06.17

LCSD Sample Id: 730453-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	264	106	264	106	90-110	0	20	mg/kg	09.06.17 10:18	

Analytical Method: Chloride by EPA 300

Seq Number: 3026932

MB Sample Id: 730493-1-BLK

Matrix: Solid

LCS Sample Id: 730493-1-BKS

Prep Method: E300P

Date Prep: 09.07.17

LCSD Sample Id: 730493-1-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	272	109	274	110	90-110	1	20	mg/kg	09.07.17 10:47	

Analytical Method: Chloride by EPA 300

Seq Number: 3027059

MB Sample Id: 730493-1-BLK

Matrix: Solid

LCS Sample Id: 730493-1-BKS

Prep Method: E300P

Date Prep: 09.07.17

LCSD Sample Id: 730493-1-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	272	109	274	110	90-110	1	20	mg/kg	09.07.17 10:47	

Analytical Method: Chloride by EPA 300

Seq Number: 3027144

Parent Sample Id: 561470-001

Matrix: Soil

MS Sample Id: 561470-001 S

Prep Method: E300P

Date Prep: 09.06.17

MSD Sample Id: 561470-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	30.9	100	140	109	135	104	90-110	4	20	mg/kg	09.06.17 10:41	

Analytical Method: Chloride by EPA 300

Seq Number: 3027144

Parent Sample Id: 561430-002

Matrix: Soil

MS Sample Id: 561430-002 S

Prep Method: E300P

Date Prep: 09.06.17

MSD Sample Id: 561430-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	240	249	489	100	499	104	90-110	2	20	mg/kg	09.06.17 12:29	

Analytical Method: Chloride by EPA 300

Seq Number: 3026932

Parent Sample Id: 561470-009

Matrix: Soil

MS Sample Id: 561470-009 S

Prep Method: E300P

Date Prep: 09.07.17

MSD Sample Id: 561470-009 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	33.8	249	314	113	317	114	90-110	1	20	mg/kg	09.07.17 11:27	X



QC Summary 561470

Trinity Oilfield Services & Rentals, LLC Sterling Silver 3 0005

Analytical Method: Chloride by EPA 300

Seq Number: 3026932

Parent Sample Id: 561472-002

Matrix: Soil

MS Sample Id: 561472-002 S

Prep Method: E300P

Date Prep: 09.07.17

MSD Sample Id: 561472-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	307	250	582	110	582	110	90-110	0	20	mg/kg	09.07.17 13:21	

Analytical Method: Chloride by EPA 300

Seq Number: 3027059

Parent Sample Id: 561470-009

Matrix: Soil

MS Sample Id: 561470-009 S

Prep Method: E300P

Date Prep: 09.07.17

MSD Sample Id: 561470-009 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	33.8	249	314	113	317	114	90-110	1	20	mg/kg	09.07.17 11:27	X

Analytical Method: Chloride by EPA 300

Seq Number: 3027059

Parent Sample Id: 561472-002

Matrix: Soil

MS Sample Id: 561472-002 S

Prep Method: E300P

Date Prep: 09.07.17

MSD Sample Id: 561472-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	307	250	582	110	582	110	90-110	0	20	mg/kg	09.07.17 13:21	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3026607

MB Sample Id: 730145-1-BLK

Matrix: Solid

LCS Sample Id: 730145-1-BKS

Prep Method: TX1005P

Date Prep: 08.30.17

LCSD Sample Id: 730145-1-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	876	88	846	85	70-135	3	35	mg/kg	09.05.17 09:38	
Diesel Range Organics (DRO)	<15.0	1000	1050	105	1040	104	70-135	1	35	mg/kg	09.05.17 09:38	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	100		112		109		70-135	%	09.05.17 09:38
o-Terphenyl	103		101		97		70-135	%	09.05.17 09:38



QC Summary 561470

Trinity Oilfield Services & Rentals, LLC Sterling Silver 3 0005

Analytical Method: TPH By SW8015 Mod

Seq Number: 3026608

MB Sample Id: 730183-1-BLK

Matrix: Solid

LCS Sample Id: 730183-1-BKS

Prep Method: TX1005P

Date Prep: 08.31.17

LCSD Sample Id: 730183-1-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	839	84	895	90	70-135	6	35	mg/kg	09.05.17 09:41	
Diesel Range Organics (DRO)	<15.0	1000	1050	105	1040	104	70-135	1	35	mg/kg	09.05.17 09:41	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date			
1-Chlorooctane	102		103		103		70-135	%	09.05.17 09:41			
o-Terphenyl	103		99		105		70-135	%	09.05.17 09:41			

Analytical Method: TPH By SW8015 Mod

Seq Number: 3026607

Parent Sample Id: 561470-001

Matrix: Soil

MS Sample Id: 561470-001 S

Prep Method: TX1005P

Date Prep: 08.30.17

MSD Sample Id: 561470-001 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	924	93	880	88	70-135	5	35	mg/kg	09.05.17 09:38	
Diesel Range Organics (DRO)	25.6	998	1020	100	1060	104	70-135	4	35	mg/kg	09.05.17 09:38	
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date			
1-Chlorooctane			105		106		70-135	%	09.05.17 09:38			
o-Terphenyl			97		95		70-135	%	09.05.17 09:38			

Analytical Method: TPH By SW8015 Mod

Seq Number: 3026608

Parent Sample Id: 561470-006

Matrix: Soil

MS Sample Id: 561470-006 S

Prep Method: TX1005P

Date Prep: 08.31.17

MSD Sample Id: 561470-006 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	813	81	813	82	70-135	0	35	mg/kg	09.05.17 09:41	
Diesel Range Organics (DRO)	<15.0	999	1000	100	1010	101	70-135	1	35	mg/kg	09.05.17 09:41	
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date			
1-Chlorooctane			97		98		70-135	%	09.05.17 09:41			
o-Terphenyl			94		93		70-135	%	09.05.17 09:41			

Trinity Oilfield Services & Rentals, LLC
Sterling Silver 3 0005

Analytical Method: BTEX by EPA 8021B

Seq Number: 3027032

MB Sample Id: 730539-1-BLK

Matrix: Solid

LCS Sample Id: 730539-1-BKS

Prep Method: SW5030B

Date Prep: 09.07.17

LCSD Sample Id: 730539-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.101	0.106	105	0.109	108	70-130	3	35	mg/kg	09.07.17 19:52	
Toluene	<0.00201	0.101	0.0993	98	0.102	101	70-130	3	35	mg/kg	09.07.17 19:52	
Ethylbenzene	<0.00201	0.101	0.0970	96	0.0988	98	71-129	2	35	mg/kg	09.07.17 19:52	
m,p-Xylenes	<0.00402	0.201	0.188	94	0.191	95	70-135	2	35	mg/kg	09.07.17 19:52	
o-Xylene	<0.00201	0.101	0.0916	91	0.0933	92	71-133	2	35	mg/kg	09.07.17 19:52	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	95		96		97		80-120	%	09.07.17 19:52
4-Bromofluorobenzene	81		89		88		80-120	%	09.07.17 19:52

Analytical Method: BTEX by EPA 8021B

Seq Number: 3027189

MB Sample Id: 730642-1-BLK

Matrix: Solid

LCS Sample Id: 730642-1-BKS

Prep Method: SW5030B

Date Prep: 09.08.17

LCSD Sample Id: 730642-1-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	0.119	119	0.108	107	70-130	10	35	mg/kg	09.08.17 07:50	
Toluene	<0.00200	0.100	0.110	110	0.101	100	70-130	9	35	mg/kg	09.08.17 07:50	
Ethylbenzene	<0.00200	0.100	0.107	107	0.0984	97	71-129	8	35	mg/kg	09.08.17 07:50	
m,p-Xylenes	<0.00401	0.200	0.208	104	0.191	95	70-135	9	35	mg/kg	09.08.17 07:50	
o-Xylene	<0.00200	0.100	0.0995	100	0.0920	91	71-133	8	35	mg/kg	09.08.17 07:50	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	94		94		98		80-120	%	09.08.17 07:50
4-Bromofluorobenzene	80		83		88		80-120	%	09.08.17 07:50

Analytical Method: BTEX by EPA 8021B

Seq Number: 3027032

Parent Sample Id: 561471-002

Matrix: Soil

MS Sample Id: 561471-002 S

Prep Method: SW5030B

Date Prep: 09.07.17

MSD Sample Id: 561471-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.100	0.145	145	0.152	152	70-130	5	35	mg/kg	09.07.17 20:28	X
Toluene	<0.00201	0.100	0.0973	97	0.102	102	70-130	5	35	mg/kg	09.07.17 20:28	
Ethylbenzene	<0.00201	0.100	0.0626	63	0.0745	75	71-129	17	35	mg/kg	09.07.17 20:28	X
m,p-Xylenes	<0.00402	0.201	0.0724	36	0.0932	47	70-135	25	35	mg/kg	09.07.17 20:28	X
o-Xylene	0.00251	0.100	0.0645	62	0.0529	50	71-133	20	35	mg/kg	09.07.17 20:28	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		105		80-120	%	09.07.17 20:28
4-Bromofluorobenzene	95		86		80-120	%	09.07.17 20:28

Trinity Oilfield Services & Rentals, LLC
Sterling Silver 3 0005

Analytical Method: BTEX by EPA 8021B

Seq Number: 3027189

Parent Sample Id: 562130-006

Matrix: Soil

MS Sample Id: 562130-006 S

Prep Method: SW5030B

Date Prep: 09.08.17

MSD Sample Id: 562130-006 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	0.0998	0.0668	67	0.0830	84	70-130	22	35	mg/kg	09.08.17 08:28	X
Toluene	<0.00200	0.0998	0.0614	62	0.0756	76	70-130	21	35	mg/kg	09.08.17 08:28	X
Ethylbenzene	<0.00200	0.0998	0.0581	58	0.0702	71	71-129	19	35	mg/kg	09.08.17 08:28	X
m,p-Xylenes	<0.00399	0.200	0.114	57	0.137	69	70-135	18	35	mg/kg	09.08.17 08:28	X
o-Xylene	<0.00200	0.0998	0.0559	56	0.0669	67	71-133	18	35	mg/kg	09.08.17 08:28	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	97		96		80-120	%	09.08.17 08:28
4-Bromofluorobenzene	88		88		80-120	%	09.08.17 08:28



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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
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
B. HNO₃ F. MeOH J. MCAA C
H₂SO₄ G. Na₂S₂O₃ K. ZnAc₂&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		

REMARKS

Run BTEX if TPH $\leq$ 5,000

Run BTEX if TPH $\leq 5,000$ Run BTEX if TPH $\leq 5,000$

Temp: 1.5 IR ID: R-8
CF: (0-6: -0.2°C)
(6-23: +0.2°C)
Corrected Temp: 1.3

Run BTEX if TPH $\leq$ 5,000Run BTEX if TPH $\leq$ 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/A				
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		1 2 3 2.0			Non-Conformances found? Samples intact upon arrival?						
	Relinquished by					Affiliation				Date				Time				Received by			Affiliation		Date			Time			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?			
1	<i>Michele Bennett</i>					<i>Juruty</i>				<i>8/28/17</i>				<i>1303</i>				<i>JEG</i>			<i>MS</i>		<i>8-28</i>			<i>1:05</i>						
2																		<i>Shannice Smith</i>			<i>Xenco</i>		<i>8-29-17</i>			<i>14:52</i> <i>10:00am</i>						
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 Phoenix 602-437-0330
FTS Service Centers: Atlanta 770-449-8800 Lakeland 863-646-8526 Tampa 803-543-8099 Philadelphia 610-955-5649 South Carolina 803-543-8099

C.O.C. Serial #

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 conditions unless previously agreed in writing. 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 property of Xenco until invoices for such data are paid in full.

Revision Date: Nov 12, 2009

Final 1,000

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XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Trinity Oilfield Services & Rentals, LLC

Date/ Time Received: 08/28/2017 01:05:00 PM

Work Order #: 561470

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	1.3
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seal present on shipping container/ cooler?	N/A
#5 *Custody Seals intact on shipping container/ cooler?	N/A
#6 Custody Seals intact on sample bottles?	N/A
#7 *Custody Seals Signed and dated?	N/A
#8 *Chain of Custody present?	Yes
#9 Sample instructions complete on Chain of Custody?	Yes
#10 Any missing/extra samples?	No
#11 Chain of Custody signed when relinquished/ received?	Yes
#12 Chain of Custody agrees with sample label(s)?	Yes
#13 Container label(s) legible and intact?	Yes
#14 Sample matrix/ properties agree with Chain of Custody?	Yes
#15 Samples in proper container/ bottle?	Yes
#16 Samples properly preserved?	Yes
#17 Sample container(s) intact?	Yes
#18 Sufficient sample amount for indicated test(s)?	Yes
#19 All samples received within hold time?	Yes
#20 Subcontract of sample(s)?	No
#21 VOC samples have zero headspace?	N/A

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

Analyst:

PH Device/Lot#:

Checklist completed by:

Shawnee Smith

Date: 08/29/2017

Checklist reviewed by:

Holly Taylor

Date: 08/30/2017