

Page 1 of 225  
Received by OGD: 12/11/2023 12:16:33 PM  
Released to Imaging: 12/14/2023 2:50:51 PM

District I  
625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised April 3, 2017

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	OXY USA INC	Contact	WADE DITTRICH
Address	PO BOX 4294; HOUSTON, TX 77210	Telephone No.	575-390-2828
Facility Name	MESA VERDE BS UNIT #8	Facility Type	WELL
Surface Owner	FEDERAL	Mineral Owner	FEDERAL
		API No.	30-025-44184

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	17	24S	32E	280	SOUTH	1146	WEST	LEA

Latitude 32.2109622 Longitude -103.7015845 NAD83

NATURE OF RELEASE

Type of Release	DIESEL	Volume of Release	7 bbls	Volume Recovered	0 bbls
Source of Release	Connection on Diesel tank failed causing leak	Date and Hour of Occurrence	02/27/2018	Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? OLIVIA YU-NMOCD; SHELLY TUCKER-BLM			
By Whom?	WADE DITTRICH	Date and Hour 02/28/2018 @ 11:59 AM			
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.\*

**RECEIVED**  
By Olivia Yu at 9:00 am, Mar 14, 2018

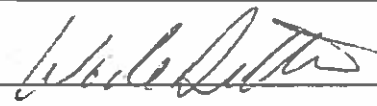

Describe Cause of Problem and Remedial Action Taken.\*

Connection on Diesel tank failed causing leak. Connection has been repaired and returned to service.

Describe Area Affected and Cleanup Action Taken.\*

The affected areas of this spill are approximately 75x100 (measurements are subject to change with GPS tracking). Remediation will be completed in accordance with a remediation plan approved by the NMOCD and BLM.

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

Signature: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: WADE DITTRICH	Approved by Environmental Specialist: 	
Title: ENVIRONMENTAL SPECIALIST	Approval Date: 3/14/2018	Expiration Date:
E-mail Address: wade_dittrich@oxy.com	Conditions of Approval: see attached directive	Attached <input checked="" type="checkbox"/>
Date: 3-14-18 Phone: 575-390-2828		

Attach Additional Sheets If Necessary

1RP-4992    nOY1807332612    pOY1807332797

Page 2 of 225  
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Facility Name	MESA VERDE BS UNIT #8	Facility Type	WELL

Surface Owner	FEDERAL	Mineral Owner	FEDERAL	API No.	30-025-44184
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By Whom?	WADE DITTRICH	Date and Hour	02/28/2018 @ 11:59 AM		
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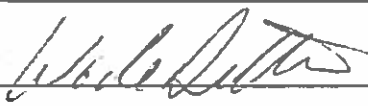

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E-mail Address: wade_dittrich@oxy.com	Conditions of Approval: <b>see attached directive</b>	Attached <input checked="" type="checkbox"/>
Date: <b>3-14-18</b> Phone: 575-390-2828		

Attach Additional Sheets If Necessary

1RP-4992

nOY1807332612

pOY1807332797

Incident ID	NOY1807332612
District RP	
Facility ID	
Application ID	

## Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

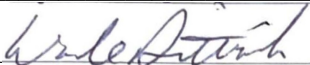
**Closure Report Attachment Checklist:** *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Wade Dittrich

Title: Environmental Coordinator

Signature: 

Date: 11/29/2023

email: Wade\_Dittrich@oxy.com

Telephone: 575-390-2828

**OCD Only**

Received by: \_\_\_\_\_

Date: \_\_\_\_\_

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

Incident ID	NOY1807332612
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

*This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>&gt;105</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

### **Characterization Report Checklist:** *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

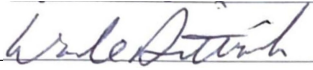


State of New Mexico  
Oil Conservation Division

Page 4

Incident ID	NOY1807332612
District RP	
Facility ID	
Application ID	

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Printed Name: Wade Dittrich Title: Environmental Coordinator  
Signature:  Date: 11/29/2023  
email: Wade\_Dittrich@oxy.com Telephone: 575-390-2828

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

# Trinity Oilfield Services & Rentals, LLC



November 29<sup>th</sup>, 2023

Oil Conservation Division, District I  
1625 N. French Drive  
Hobbs, NM 88240

Re: **Closure Request**  
**Mesa Verde BS Unit #8**  
**Tracking #: NOY1807332612**

Trinity Oilfield Services (Trinity), on behalf of OXY USA, Inc., hereby submits the following Closure Request in response to a release that occurred at the above-referenced location, and further described below.

Site Information	
Incident ID	NOY1807332612
Site Name	Mesa Verde BS Unit #8
Company	OXY USA, Inc.
County	Lea
ULSTR	M-17-24S-32E
GPS Coordinates (NAD 83)	32.2109622, -103.7015845
Landowner	Federal

## HISTORICAL RELEASE BACKGROUND

This site had previously been remediated but no paperwork existed for verification, therefore, OXY performed confirmation sampling to verify remediation limits had been met.

On 2/28/2018, OXY USA, Inc. reported a release at the Mesa Verde BS Unit #8. The release was caused when a connection on a diesel tank failed. Approximately 11,108 sqft. of the Pad was found to be damp upon initial inspection.

Release Information	
Date of Release	2/27/2018
Type of Release	Diesel
Source of Release	Equipment Failure
Volume Released – Diesel	7 bbls
Volume Recovered – Diesel	0 bbls
Affected Area – Damp Soil	Pad - Approximately 11,108 sqft.
Site Location Map	Attached

**SITE CHARACTERIZATION AND CLOSURE CRITERIA****Depth to Groundwater/Wellhead Protection:**

Data Source	Well Number	Data Date	Depth (ft.)
NM OSE	NA	NA	NA
USGS	NA	NA	NA
Soil Bore	SB-13	06/21/2023	105'

A search of the groundwater well databases maintained by the New Mexico Office of the State Engineer (NMOSE) and the United States Geological Survey (USGS) was conducted to determine if any registered groundwater wells are located within a  $\frac{1}{2}$  mile of the release site. The search revealed that Zero (0) wells occurred in the databases that meet the NMOCD criteria for the age of data, the distance of the data point well from the release point, and a data point well having a diagram of construction.

On 06/21/2023, Trinity was onsite to drill a groundwater determination borehole (SB-13) to 105' below ground surface within a  $\frac{1}{2}$  mile radius of the incident location. The borehole was left open for 72 hours and checked for the presence of groundwater. As a result, no water was detected at 105' below surface at the borehole location (32.21119430, -103.70826819). The driller log is attached for reference.

**General Site Characterization:**

Site Assessment	
Karst Potential	Low
Distance to Watercourse	> 1,000 ft.
Within 100 yr Floodplain	No
Pasture Impact	No

A risk-based site assessment/characterization was performed following the New Mexico Oil Conservation Division (NMOCD) Rule (Title 19 Chapter 15 Part 29) for releases on oil and gas development and production in New Mexico (effective August 14, 2018). To summarize the site assessment/characterization evaluation, the affected area has Low potential for cave and karst, and no other receptors (residence, school, hospital, institution, church, mining, municipal, or other ordinance boundaries) were located within the regulatorily promulgated distances from the site.

**Closure Criteria:**

On-Site & Off-Site 4ft bgs   Recommended Remedial Action Levels (RRALs)	
Chlorides	20,000 mg/kg
TPH (GRO and DRO and MRO)	2,500 mg/kg
TPH (GRO and DRO)	1,000 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

A reclamation standard of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top four feet of the pasture area if impacted by the release, per NMAC 19.15.29.13.D (1) for the top four feet of areas that will be reclaimed following remediation.

**INITIAL ASSESSMENT AND REMEDIATION ACTIVITIES****Initial Sample Activities:**

<b>Delineation Summary</b>	
Delineation Dates	03/06/2019 - 11/15/2023
Depths Sampled	0.5' - 1.5'
Delineation Map	Attached
Laboratory Results	Table 1

All soil samples were placed into laboratory-supplied glassware, labeled, and maintained on ice until delivery to an NMOCD-approved laboratory (Delineation: Xenco Laboratories of Midland, TX; Remediation: Cardinal Laboratories of Hobbs, NM) for the analysis of chloride using Method SM4500 Cl-B, Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) by EPA Method 8021 B and Total Petroleum Hydrocarbon (TPH) constituents the by EPA 8015M.

**Confirmation Activities:**

<b>Remediation Summary</b>	
Remediation Dates	03/30/2023 - 09/29/2023
Workplan Approval	At Risk
Confirmation Sample Notification	03/24/2023
Liner Variance Request	None
Deferral Request	None
Depths Excavated	0.3' - 1'
Area Represented by the required 5-point Confirmation Samples – Floors and Walls	200 sqft.
Total Volume of Excavated Soil	176 yards
Remediation Map	Attached
Laboratory Results	Table 2

Impacted soil within the release margins was excavated and temporarily stockpiled on-site on a 6-mil plastic sheeting, pending final disposition. Unless a Variance Request has been approved, all Floor and On-Site Walls of the excavated area were advanced until laboratory analytical results from confirmation soil samples indicate Chloride, Benzene, BTEX, and TPH concentrations are below the RRAL NMOCD Closure Criteria listed in the Table above, and all Off-Site Walls were advanced to meet reclamation standards. Confirmation soil samples (five-point composites representing no more than 200 sqft. of the excavated area) were collected from the floor and sidewalls.

Upon receiving laboratory analytical data showing that confirmation soil samples from the excavated areas yield results below the selected NMOCD Table 1 Closure Criteria; the impacted soil was transported under manifest to an NMOCD-approved disposal facility and the excavated area was backfilled with locally sourced, non-impacted "like" material.

**SITE RECLAMATION AND RESTORATION**

Areas affected by the release and the associated remediation activities were restored to a condition that existed before the release to the extent practicable. The affected area was contoured and/or compacted to provide erosion control, stability, and preservation of surface water flow. Affected areas not on production pads and/or lease roads will be reseeded with a prescribed BLM, NMSLO, and/or Private Landowner requested seed mixture during the first favorable growing season following the closure of the site by the applicable regulatory agency.

**REQUEST FOR CLOSURE**

Supporting Documentation	
C-141  page 6	Signed and Attached
Delineation and Remediation Maps	Attached
Depth to Groundwater Maps and Source	Attached
US NWI Map	Attached
FEMA Flood Hazard Map	Attached
USDA Soil Survey	Attached
Site Photography	Attached
Laboratory Analytics with COCs	Attached

The site has been remediated to meet the standards of Table I of 19.15.29.12 NMAC; therefore, Trinity Oilfield Services respectfully requests that the New Mexico Oil Conservation Division grant closure approval for the referenced release.

Sincerely,



Dan Dunkelberg  
Project Manager



Cynthia Jordan  
Project Scientist



Cynthia Jordan <cynthia@trinityoilfieldservices.com>

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## Confirmation Sample Notification - NOY1807332612 2018 MINOR A SPL

1 message

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**Dan Dunkelberg** <dan@trinityoilfieldservices.com>

Fri, Mar 24, 2023 at 1:36 PM

To: OCD.Enviro@emnrd.nm.gov

Cc: Josh Halcomb <josh@trinityoilfieldservices.com>, Cynthia Jordan <cynthia@trinityoilfieldservices.com>

This is a notification that Trinity Oilfield Services will conduct confirmation sampling on behalf of OXY USA, Inc. at the above referenced site on Wednesday, March 29, 2023, at 8:00 a.m.

Dan Dunkelberg  
Environmental Regulatory Manager



Trinity Oilfield Services & Rentals, LLC  
Cell: (575) 602-2403



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

OXY USA, INC.  
MESA VERDE BS UNIT #8  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE #: NOY1807332612



SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	EPA SW-846 Method 8021B							EPA SW-846 Method 8015M					EPA 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 C6-C12 (mg/kg)	DRO C12-C28 (mg/kg)	GRO+ DRO (mg/kg)	MRO C28-C35 (mg/kg)	TPH C6-C35 (mg/kg)	CHLORIDE (mg/kg)
NMOCD Closure Limits (mg/kg)				10	NE	NE	NE	NE	NE	50	NE	NE	1,000	NE	2,500	20,000
Vertical Delineation																
SP-1 @ 6"	6"	4/9/2019	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	124	124	<15.0	124	2,020
SP-1	1.5'	3/6/2019	In-Situ	<0.0020	<0.0020	<0.0020	0.0046	<0.0020	0.0046	0.0046	<14.9	<14.9	<14.9	<14.9	<14.9	502
SP-2	1.5'	3/6/2019	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	<15.0	388
SP-3 @ 6"	6"	4/9/2019	In-Situ	<0.0020	0.0022	0.0061	0.0494	0.0409	0.0903	0.0985	436	5,800	6,236	925	7,160	279
SP-3	1.5'	3/6/2019	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<14.9	121	121	28.0	149	514
SP-4	1.5'	3/6/2019	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	<15.0	18.8
SP-5 @ 6"	6"	4/9/2019	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<14.9	68.5	68.5	17.5	86.0	121
SP-5	1.5'	3/6/2019	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	<15.0	<5.00
SP-6	1.5'	3/6/2019	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	<15.0	106
SP-7 @ 6"	6"	4/9/2019	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	24.4	24.4	<15.0	24.4	76.6
SP-7	1.5'	3/6/2019	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	<15.0	156
SP-8	1.5'	3/6/2019	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	<15.0	10.4
SP-9 @ 6"	6"	4/9/2019	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	29.9	29.9	<15.0	29.9	237
SP-9	1.5'	3/6/2019	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	<15.0	83.2
SP-10	1.5'	3/6/2019	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	<15.0	44.5
SP-11 @ 6"	6"	4/9/2019	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	19.0	19.0	<15.0	19.0	68.4
SP-11	1.5'	3/6/2019	In-Situ	<0.0020	<0.0020	0.0028	<0.0040	<0.0020	<0.0020	0.0028	<15.0	<15.0	<15.0	<15.0	<15.0	68.0
SP-12 @ 6"	6"	4/9/2019	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	218	218	32.8	251	108
SP-12	1.5'	3/6/2019	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	<15.0	45.8
SP-13 @ 6"	6"	4/9/2019	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<14.9	217	217	17.1	234	682
SP-13	1.5'	3/6/2019	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	<15.0	56.4
SP-14	1.5'	3/6/2019	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<14.9	<14.9	<14.9	<14.9	<14.9	8.74
SP-15 @ 6"	6"	4/9/2019	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<14.9	1,060	1,060	17.9	1,080	127
SP-15	1.5'	3/6/2019	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	<15.0	16.4
SP-16 @ 6"	6"	4/9/2019	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	3,230	3,230	1,120	4,350	1,200
SP-16	1.5'	3/7/2019	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	307	307	309	616	280
SP-17 @ 6"	6"	4/9/2019	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	59.6	59.6	89.8	149	206
SP-17	1.5'	3/7/2019	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	66.0	66.0	498	564	113
SP-18	1.5'	3/7/2019	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	<15.0	101
SP-19 @ 6"	6"	4/9/2019	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	706	706	130	836	1,010
SP-19	1.5'	3/7/2019	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	116	116	19.5	136	189
Horizontal Delineation																
DH-001-01.0-HS-S	1'	11/15/2023	In-Situ	<0.050	<0.050	<0.050	-	-	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
DH-002-01.0-HE-S	1'	11/15/2023	In-Situ	<0.050	<0.050	<0.050	-	-	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
DH-003-01.0-HN-S	1'	11/15/2023	In-Situ	<0.050	<0.050	<0.050	-	-	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
DH-004-01.0-HW-S	1'	11/15/2023	In-Situ	<0.050	<0.050	<0.050	-	-	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	576

**TABLE 2**  
**CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL**

**OXY USA, INC.**  
**MESA VERDE BS UNIT #8**  
**LEA COUNTY, NEW MEXICO**  
**NMOCD REFERENCE #: NOY1807332612**



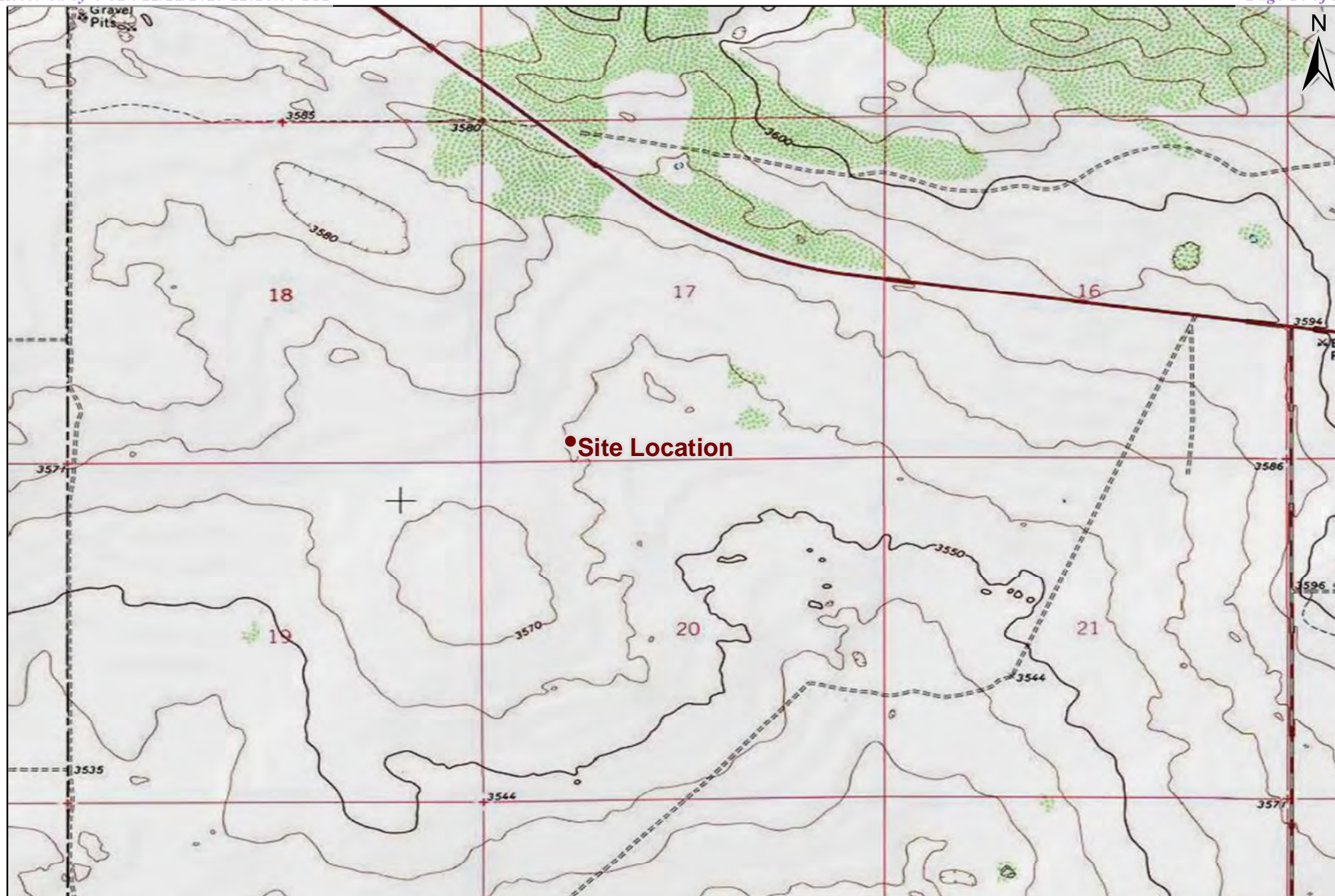
SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	FLOOR/WALL	OFF-SITE/ON-SITE	SAMPLE TYPE	SOIL STATUS	CHLORIDE (mg/Kg)	TPH C6-C36 (mg/Kg)	GRO+ DRO (mg/kg)	GRO C6-C10 (mg/Kg)	DRO C10-C28 (mg/Kg)	MRO C28-C36 (mg/Kg)	TOTAL BTEX (mg/Kg)	BENZENE (mg/Kg)
<b>NMOCD Closure Limits Pad</b>							<b>20000</b>	<b>2500</b>	<b>1000</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>50</b>	<b>10</b>
<b>NMOCD Closure Limits Pasture to 4'</b>							<b>600</b>	<b>100</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>50</b>	<b>10</b>
<b>Remediation Floors</b>														
CF-001.0-00.5-S	0.5	3/30/2023	Floor	On-Site	Composite	In-Situ	1090	74.2	61.5	<10.0	61.5	12.7	<.300	<0.50
CF-002.0-00.5-S	0.5	3/30/2023	Floor	On-Site	Composite	In-Situ	192	<10.0	<10.0	<10.0	<10.0	<10.0	<.300	<0.50
CF-003.0-00.5-S	0.5	3/30/2023	Floor	On-Site	Composite	In-Situ	304	<10.0	<10.0	<10.0	<10.0	<10.0	<.300	<0.50
CF-004.0-00.5-S	0.5	3/30/2023	Floor	On-Site	Composite	In-Situ	320	<10.0	<10.0	<10.0	<10.0	<10.0	<.300	<0.50
CF-005.0-00.3-S	0.3	3/30/2023	Floor	On-Site	Composite	In-Situ	192	<10.0	<10.0	<10.0	<10.0	<10.0	<.300	<0.50
CF-006.0-00.3-S	0.3	3/30/2023	Floor	On-Site	Composite	In-Situ	208	55.1	55.1	<10.0	55.1	<10.0	<.300	<0.50
CF-007.0-00.3-S	0.3	3/30/2023	Floor	On-Site	Composite	In-Situ	240	<10.0	<10.0	<10.0	<10.0	<10.0	<.300	<0.50
CF-008.0-00.3-S	0.3	3/30/2023	Floor	On-Site	Composite	In-Situ	640	16.3	16.3	<10.0	16.3	<10.0	<.300	<0.50
CF-009.0-00.3-S	0.3	3/31/2023	Floor	On-Site	Composite	In-Situ	864	370	254	<10.0	254	116	<.300	<0.50
CF-010.0-00.3-S	0.3	3/31/2023	Floor	On-Site	Composite	In-Situ	480	388	244	<10.0	244	144	<.300	<0.50
CF-011.0-00.3-S	0.3	3/31/2023	Floor	On-Site	Composite	In-Situ	272	66.2	44.1	<10.0	44.1	22.1	<.300	<0.50
CF-012.0-00.3-S	0.3	3/31/2023	Floor	On-Site	Composite	In-Situ	496	28.7	28.7	<10.0	28.7	<10.0	<.300	<0.50
CF-013.0-00.3-S	0.3	3/30/2023	Floor	On-Site	Composite	In-Situ	192	<10.0	<10.0	<10.0	<10.0	<10.0	<.300	<0.50
CF-014.0-00.3-S	0.3	3/30/2023	Floor	On-Site	Composite	In-Situ	160	48.2	48.2	<10.0	48.2	<10.0	<.300	<0.50
CF-015.0-00.3-S	0.3	3/30/2023	Floor	On-Site	Composite	In-Situ	128	32.3	32.3	<10.0	32.3	<10.0	<.300	<0.50
CF-016.0-00.3-S	0.3	3/30/2023	Floor	On-Site	Composite	In-Situ	80	21.1	21.1	<10.0	21.1	<10.0	<.300	<0.50
CF-017.0-00.3-S	0.3	3/30/2023	Floor	On-Site	Composite	In-Situ	48	<10.0	<10.0	<10.0	<10.0	<10.0	<.300	<0.50
CF-018.0-00.3-S	0.3	3/30/2023	Floor	On-Site	Composite	In-Situ	288	<10.0	<10.0	<10.0	<10.0	<10.0	<.300	<0.50
CF-019.0-00.3-S	0.3	3/31/2023	Floor	On-Site	Composite	In-Situ	1010	41.7	29.4	<10.0	29.4	12.3	<.300	<0.50
CF-020.0-00.3-S	0.3	3/31/2023	Floor	On-Site	Composite	In-Situ	6960	75.1	75.1	<10.0	75.1	<10.0	<.300	<0.50
CF-021.0-00.3-S	0.3	3/31/2023	Floor	On-Site	Composite	In-Situ	4960	140.7	123	<10.0	123	17.7	<.300	<0.50
CF-022.0-00.3-S	0.3	3/31/2023	Floor	On-Site	Composite	In-Situ	1200	25.3	25.3	<10.0	25.3	<10.0	<.300	<0.50
CF-023.0-00.3-S	0.3	3/31/2023	Floor	On-Site	Composite	In-Situ	208	<10.0	<10.0	<10.0	<10.0	<10.0	<.300	<0.50
CF-024.0-00.3-S	0.3	3/30/2023	Floor	On-Site	Composite	In-Situ	240	<10.0	<10.0	<10.0	<10.0	<10.0	<.300	<0.50
CF-025.0-00.3-S	0.3	3/30/2023	Floor	On-Site	Composite	In-Situ	160	<10.0	<10.0	<10.0	<10.0	<10.0	<.300	<0.50
CF-026.0-00.3-S	0.3	3/30/2023	Floor	On-Site	Composite	In-Situ	160	259.3	194	<10.0	194	65.3	<.300	<0.50
CF-027.0-00.3-S	0.3	3/30/2023	Floor	On-Site	Composite	In-Situ	80	<10.0	<10.0	<10.0	<10.0	<10.0	<.300	<0.50
CF-028.0-00.3-S	0.3	3/30/2023	Floor	On-Site	Composite	In-Situ	112	<10.0	<10.0	<10.0	<10.0	<10.0	<.300	<0.50
CF-029.0-00.3-S	0.3	3/31/2023	Floor	On-Site	Composite	In-Situ	192	26.1	26.1	<10.0	26.1	<10.0	<.300	<0.50
CF-030.0-00.3-S	0.3	3/30/2023	Floor	On-Site	Composite	In-Situ	208	<10.0	<10.0	<10.0	<10.0	<10.0	<.300	<0.50
CF-031.0-00.3-S	0.3	3/30/2023	Floor	On-Site	Composite	In-Situ	176	60	48.1	<10.0	48.1	11.9	<.300	<0.50
CF-032.0-00.3-S	0.3	3/30/2023	Floor	On-Site	Composite	In-Situ	272	<10.0	<10.0	<10.0	<10.0	<10.0	<.300	<0.50
CF-033.0-00.3-S	0.3	3/30/2023	Floor	On-Site	Composite	In-Situ	208	<10.0	<10.0	<10.0	<10.0	<10.0	<.300	<0.50
CF-034.0-00.3-S	0.3	3/30/2023	Floor	On-Site	Composite	In-Situ	240	<10.0	<10.0	<10.0	<10.0	<10.0	<.300	<0.50
CF-035.0-00.3-S	0.3	3/31/2023	Floor	On-Site	Composite	In-Situ	160	<10.0	<10.0	<10.0	<10.0	<10.0	<.300	<0.50
CF-036.0-00.3-S	0.3	3/31/2023	Floor	On-Site	Composite	In-Situ	400	17.5	17.5	<10.0	17.5	<10.0	<.300	<0.50
CF-037.0-00.3-S	0.3	3/31/2023	Floor	On-Site	Composite	In-Situ	640	181.8	124	<10.0	124	57.8	<.300	<0.50

**TABLE 2**  
**CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL**

**OXY USA, INC.**  
**MESA VERDE BS UNIT #8**  
**LEA COUNTY, NEW MEXICO**  
**NMOCD REFERENCE #: NOY1807332612**



SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	FLOOR/ WALL	OFF-SITE/ ON-SITE	SAMPLE TYPE	SOIL STATUS	CHLORIDE (mg/Kg)	TPH C6-C36 (mg/Kg)	GRO+ DRO (mg/kg)	GRO C6-C10 (mg/Kg)	DRO C10-C28 (mg/Kg)	MRO C28-C36 (mg/Kg)	TOTAL BTEX (mg/Kg)	BENZENE (mg/Kg)
<b>NMOCD Closure Limits Pad</b>							<b>20000</b>	<b>2500</b>	<b>1000</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>50</b>	<b>10</b>
<b>NMOCD Closure Limits Pasture to 4'</b>							<b>600</b>	<b>100</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>50</b>	<b>10</b>
CF-038.0-00.3-S	0.3	3/31/2023	Floor	On-Site	Composite	In-Situ	4240	82.4	62.6	<10.0	62.6	19.8	<.300	<0.50
CF-039.0-00.3-S	0.3	3/31/2023	Floor	On-Site	Composite	In-Situ	5440	97.4	84.4	<10.0	84.4	13	<.300	<0.50
CF-040.0-00.3-S	0.3	3/31/2023	Floor	On-Site	Composite	In-Situ	2200	321.9	282	<10.0	282	39.9	<.300	<0.50
CF-041.0-00.3-S	0.3	3/31/2023	Floor	On-Site	Composite	In-Situ	880	831	655	<10.0	655	176	<.300	<0.50
CF-042.0-00.3-S	0.3	3/31/2023	Floor	On-Site	Composite	In-Situ	2240	331.4	282	<10.0	282	49.4	<.300	<0.50
CF-043.0-00.3-S	0.3	3/31/2023	Floor	On-Site	Composite	In-Situ	1060	339.7	246	<10.0	246	93.7	<.300	<0.50
CF-044.0-00.3-S	0.3	3/31/2023	Floor	On-Site	Composite	Excavated	608	1878	1380	<10.0	1380	498	<.300	<0.50
CF-044.0-01.0-S	1	4/14/2023	Floor	On-Site	Composite	In-Situ	160	<10.0	<10.0	<10.0	<10.0	<10.0	<.300	<0.50
CF-045.0-00.3-S	0.3	3/31/2023	Floor	On-Site	Composite	Excavated	320	1923	1470	<10.0	1470	453	<.300	<0.50
CF-045.0-01.0-S	1	4/14/2023	Floor	On-Site	Composite	In-Situ	160	<10.0	<10.0	<10.0	<10.0	<10.0	<.300	<0.50
CF-046.0-00.3-S	0.3	3/31/2023	Floor	On-Site	Composite	In-Situ	320	667	488	<10.0	488	179	<.300	<0.50
CF-047.0-00.3-S	0.3	3/31/2023	Floor	On-Site	Composite	Excavated	160	2074	1530	<10.0	1530	544	<.300	<0.50
CF-047.0-01.0-S	1	4/14/2023	Floor	On-Site	Composite	In-Situ	32	656	543	<10.0	543	113	<.300	<0.50
CF-048.0-00.3-S	0.3	3/31/2023	Floor	On-Site	Composite	Excavated	240	1576	1240	<10.0	1240	336	<.300	<0.50
CF-048.0-01.0-S	1	4/14/2023	Floor	On-Site	Composite	In-Situ	144	<10.0	<10.0	<10.0	<10.0	<10.0	<.300	<0.50
CF-049.0-00.3-S	0.3	3/31/2023	Floor	On-Site	Composite	In-Situ	336	1369	954	<10.0	954	415	<.300	<0.50
CF-050.0-00.3-S	0.3	3/31/2023	Floor	On-Site	Composite	In-Situ	384	1051	771	<10.0	771	280	<.300	<0.50
CF-051.0-00.3-S	0.3	3/31/2023	Floor	On-Site	Composite	Excavated	384	1420	1050	<10.0	1050	370	<.300	<0.50
CF-051.0-01.0-S	1	4/14/2023	Floor	On-Site	Composite	In-Situ	144	<10.0	<10.0	<10.0	<10.0	<10.0	<.300	<0.50
CF-052.0-00.3-S	0.3	3/31/2023	Floor	On-Site	Composite	Excavated	400	1970	1530	<10.0	1530	440	<.300	<0.50
CF-052.0-01.0-S	1	4/14/2023	Floor	On-Site	Composite	In-Situ	160	<10.0	<10.0	<10.0	<10.0	<10.0	<.300	<0.50
CF-053.0-00.3-S	0.3	3/31/2023	Floor	On-Site	Composite	Excavated	384	2442	1940	<10.0	1940	502	<.300	<0.50
CF-053.0-01.0-S	1	4/14/2023	Floor	On-Site	Composite	In-Situ	160	<10.0	<10.0	<10.0	<10.0	<10.0	<.300	<0.50
CF-054.0-00.3-S	0.3	3/31/2023	Floor	On-Site	Composite	In-Situ	464	103	103	<10.0	103	<10.0	<.300	<0.50
CF-055.0-00.3-S	0.3	3/31/2023	Floor	On-Site	Composite	Excavated	1760	1263.3	1220	<10.0	1220	43.3	<.300	<0.50
CF-055.0-01.0-S	1	4/14/2023	Floor	On-Site	Composite	In-Situ	16	<10.0	<10.0	<10.0	<10.0	<10.0	<.300	<0.50
CF-056.0-00.3-S	0.3	3/31/2023	Floor	On-Site	Composite	Excavated	1220	2506	2390	<10.0	2390	116	<.300	<0.50
CF-056.0-01.0-S	1	4/14/2023	Floor	On-Site	Composite	In-Situ	16	667	554	<10.0	554	113	<.300	<0.50
<b>Remediation Walls</b>														
CW-001.0-00.0-S	0	9/29/2023	Floor	On-Site	Composite	In-Situ	1,040.00	127.70	117.00	<10.0	117.00	10.70	<.300	<0.50



**Figure 1**  
**Site Location Map**  
**OXY USA, Inc.**  
**Mesa Verde BS Unit #8**  
**Lea County, New Mexico**  
**NMOCD Reference #: NOY1807332612**

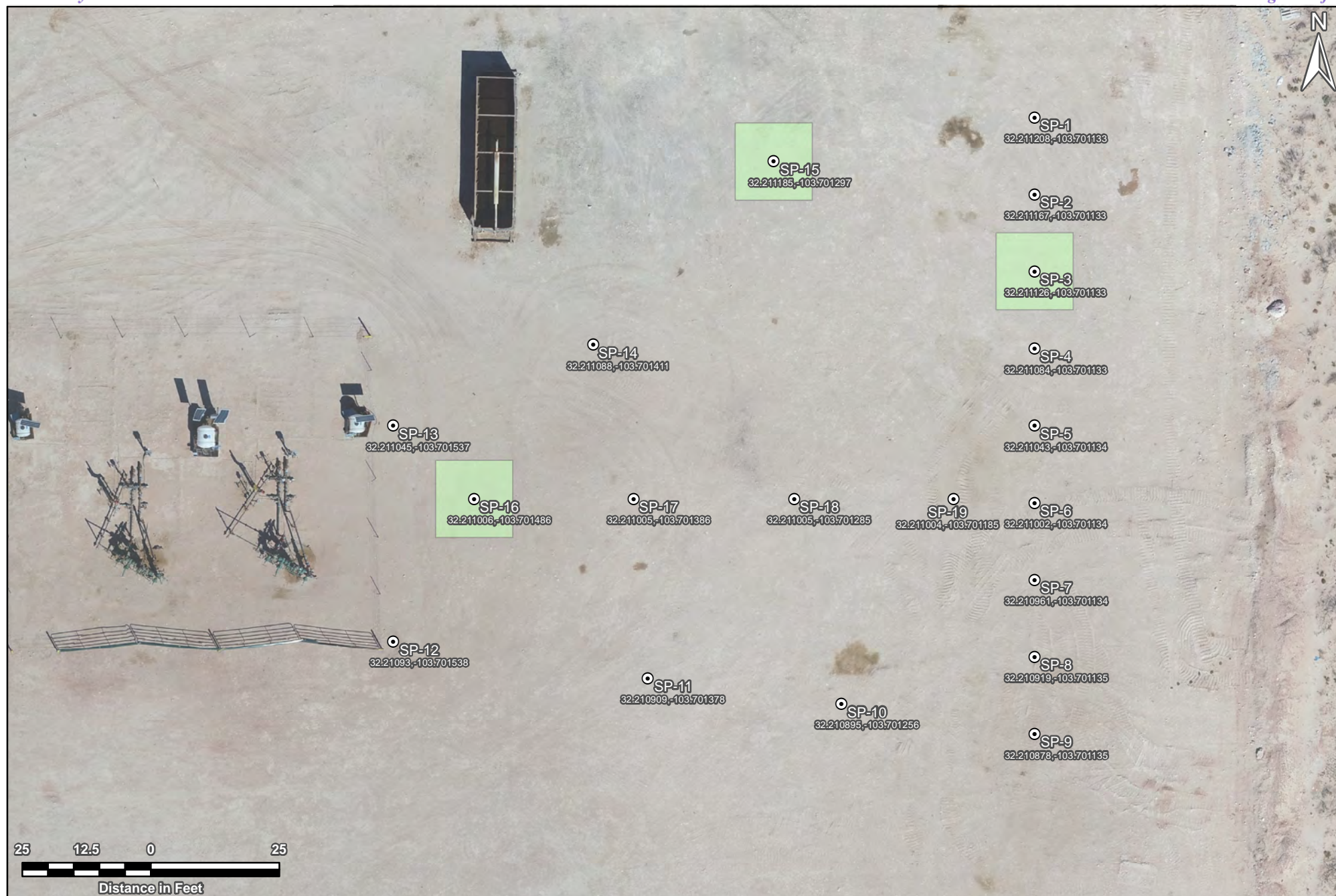


Trinity Oilfield Services & Rentals, LLC  
 P.O. Box 2587  
 Hobbs, NM 88241

Drawn By: BJA	Checked By: JEH
March 20, 2019	Scale: 1" = 2,000'

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



**Legend**

Proposed Excavations (1.5' bgs)    Auger Hole

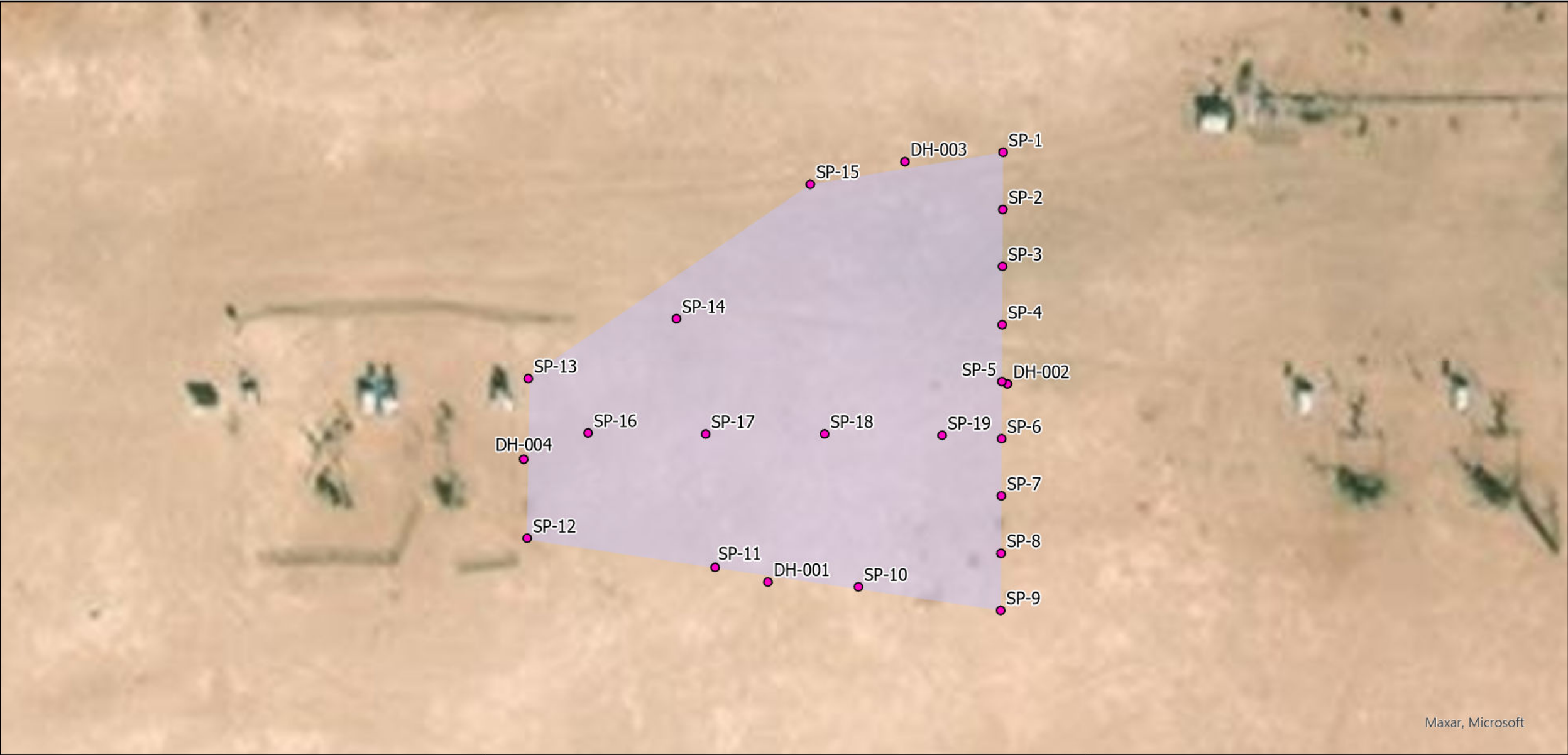
**Figure 2**  
**Site Plan**  
**OXY USA, Inc.**  
**Mesa Verde BS Unit #8**  
**Lea County, New Mexico**  
**NMOCD Reference #: NOY1807332612**



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

Drawn By: BJA    Checked By: JEH

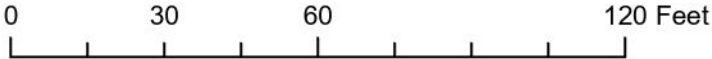
May 7, 2019    Scale: 1" = 25'



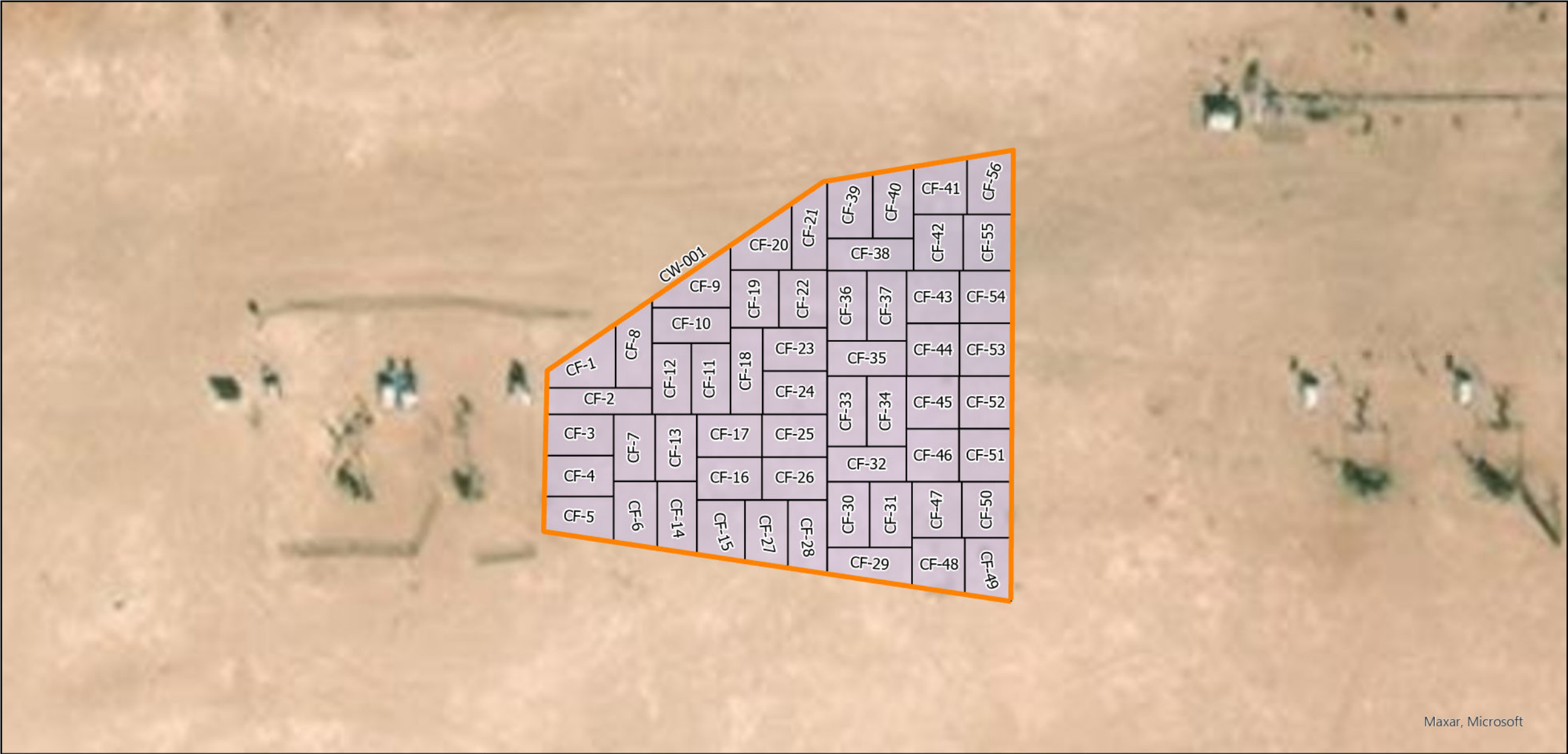
**Legend:**

- Sample Point
- Release Area

**Delineation Map**  
**OXY USA, Inc.**  
**Mesa Verde BS Unit #8**  
**32.2109622, -103.7015845**  
**Lea County, New Mexico**  
**NMOCD Reference # NOY1807332612**



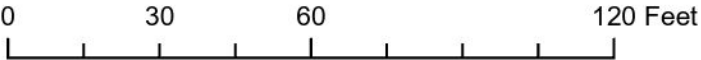




**Legend:**

- Remediation Walls
- Remediation Floor
- Excavation Area

**Remediation Map**  
**OXY USA, Inc.**  
**Mesa Verde BS Unit #8**  
**32.2109622, -103.7015845**  
**Lea County, New Mexico**  
**NMOCD Reference # NOY1807332612**





## SOIL BORE LOG SB-13

<b>PROJECT NAME</b> Mesa Verde BS Unit #8	<b>DRILLING DATE</b> 06/21/2023	<b>COORDINATES</b> 32.21119430, -103.70826819
<b>CLIENT</b> OXY USA, Inc.	<b>TOTAL DEPTH</b> 105'	<b>COORD SYS</b> NAD 83
		<b>ULSTR</b> P-18-24S-32E
		<b>SURFACE ELEVATION</b> 3721'

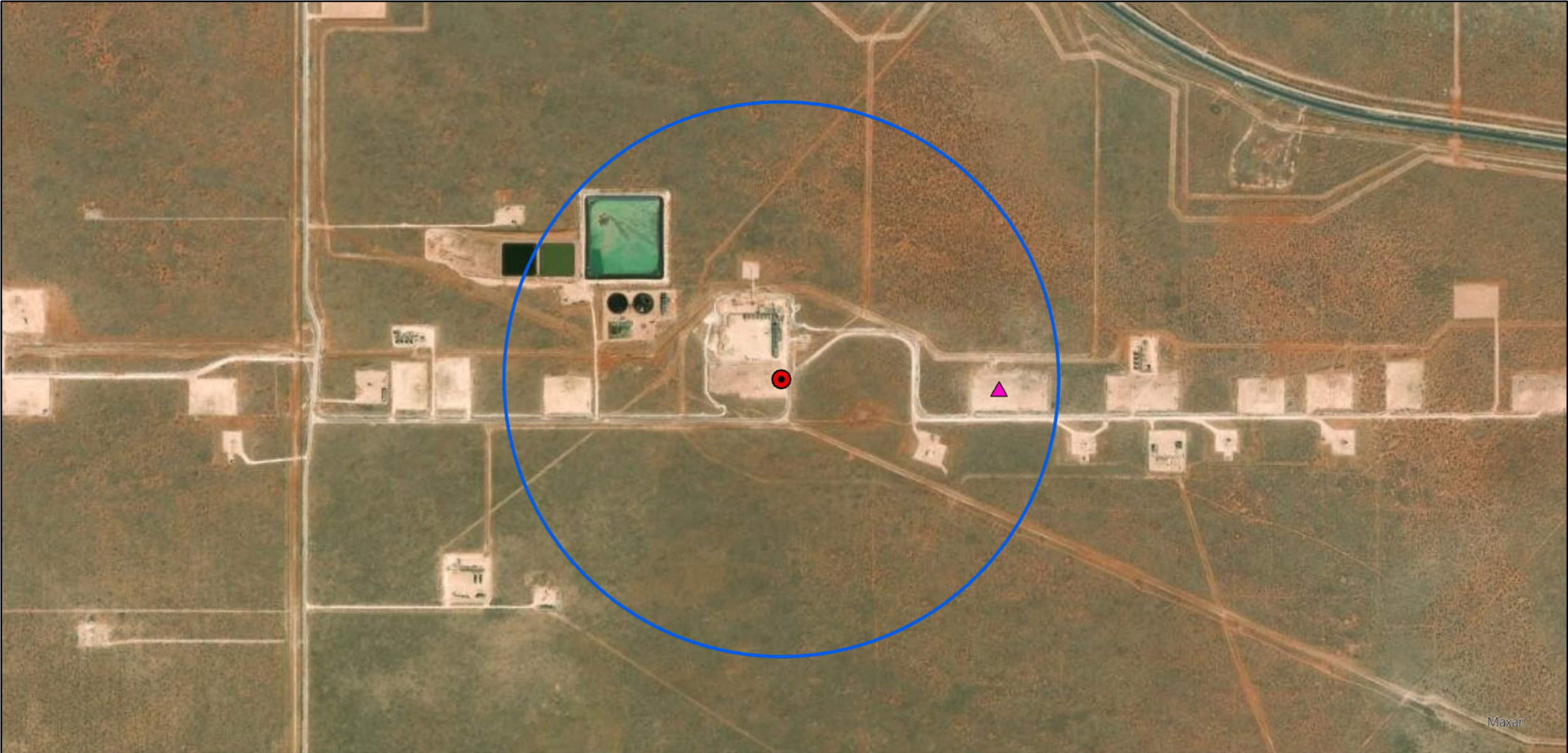
<b>COMMENTS</b> Spud on the Southeast side of the Mesa Verde Bone Spring Unit #011H Well Pad. Bore Hole was observed to be dry after 72 hrs.	<b>LOGGED BY</b> CJ <b>CHECKED BY</b> DD
---	---

Depth (ft)	Moisture	Material Description	Elevation (ft)
5	D	Reddish Yellow Sandy Clay Loam. Dry	3720
10		Reddish Yellow Sandy Loam. Dry	3715
15		Light Red Sandy Clay Loam. Dry	3710
20		Red Sandy Loam. Dry	3705
25		Reddish Brown Sandy Loam. Dry	3700
30		Red Sandy Clay Loam. Dry	3695
35			3690
40			3685
45		Red Sandy Clay. Dry	3680
50			3675
55			3670
60		Yellowish Red Sandy Clay Loam. Dry	3665
65		Red Sandy Clay Loam. Dry	3660
70			3655
75			3650
80			3645
85		Red Sandy Clay. Dry	3640
90		Red Sandy Clay Loam. Dry	3635
95			3630
100			3625
105			3620
		Termination Depth at: 105 ft.	3615

**Disclaimer** This bore log is intended to evidence a depth to groundwater greater than 105'.

Page 1 of 1





**Legend:**

- ▲ Site Location
- Soil Bore
- 1/2 Mile Buffer

Soil Bore Map  
OXY USA, Inc.  
Mesa Verde BS Unit #8  
Lea County, New Mexico  
32.2109622, -103.7015845  
NMOCD Reference # NOY1807332612





**OXY USA, Inc. – Mesa Verde BS Unit #8**  
Unit Letter “M” (SW/SW), Section 17, Township 24S, Range 32E



Release Site



Release Site



**OXY USA, Inc. – Mesa Verde BS Unit #8**  
Unit Letter “M” (SW/SW), Section 17, Township 24S, Range 32E



Release Site



Release Site



## Excavation

**Pad:**



**Pad:**







## Excavation

Pad:



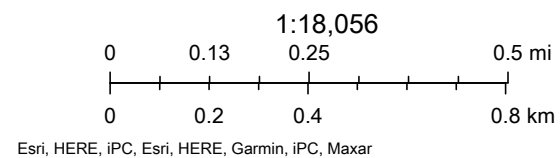
Soil Bore Hole:



# NOY1807332612 | MESA VERDE BS UNIT #8



5/2/2023, 8:44:04 AM







U.S. Fish and Wildlife Service

## National Wetlands Inventory

180 332 12

8



May 2, 2023

## Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

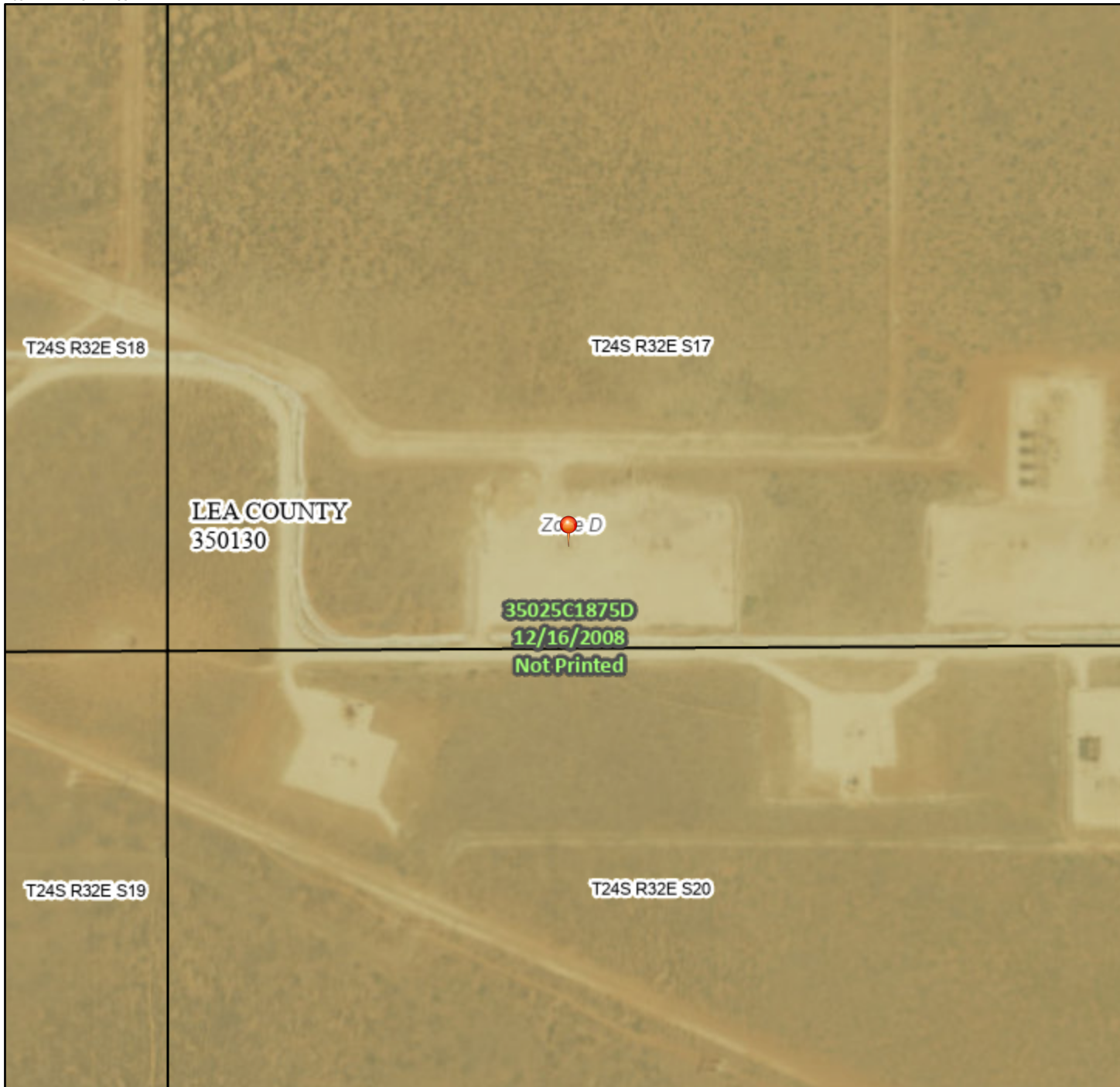
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



# National Flood Hazard Layer FIRMette



103°42'24"W 32°12'55"N



## Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 5/2/2023 at 10:48 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

# NOY1807332612 | MESA VERDE BS UNIT #8

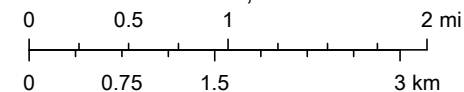


5/2/2023, 8:46:48 AM

Karst Occurrence Potential

 Low

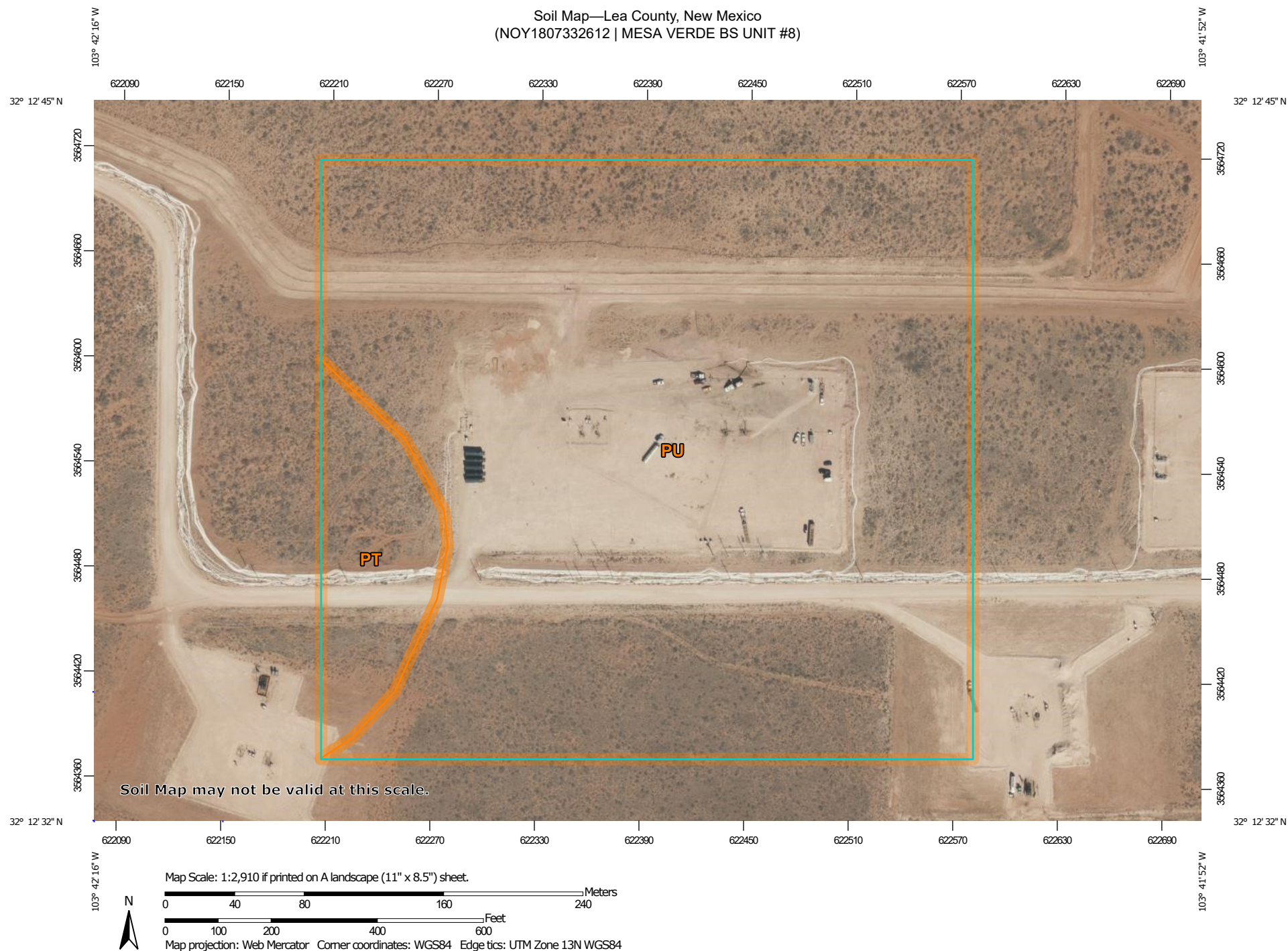
1:72,224



BLM, OCD, New Mexico Tech, Earthstar Geographics



Soil Map—Lea County, New Mexico  
(NOY1807332612 | MESA VERDE BS UNIT #8)



Natural Resources  
Conservation Service

Web Soil Survey  
National Cooperative Soil Survey


5/2/2023  
Page 1 of 3



Soil Map—Lea County, New Mexico  
(NOY1807332612 | MESA VERDE BS UNIT #8)


## MAP LEGEND

### Area of Interest (AOI)

 Area of Interest (AOI)

### Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

### Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

### Water Features



Streams and Canals

### Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

### Background



Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

**Warning:** Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lea County, New Mexico

Survey Area Data: Version 19, Sep 8, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
PT	Pyote loamy fine sand	2.7	8.5%
PU	Pyote and Maljamar fine sands	29.1	91.5%
Totals for Area of Interest		31.8	100.0%



# Certificate of Analysis Summary 617507

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: Mesa Verde BS Unit #8



Project Id:

Contact: Ben Arguijo

Project Location:

Date Received in Lab: Wed Mar-13-19 12:45 pm

Report Date: 21-MAR-19

Project Manager: Holly Taylor

<i>Analysis Requested</i>	<i>Lab Id:</i>	617507-001	617507-002	617507-003	617507-004	617507-005	617507-006
	<i>Field Id:</i>	SP-1	SP-2	SP-3	SP-4	SP-5	SP-6
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Mar-06-19 11:50	Mar-06-19 11:56	Mar-06-19 12:03	Mar-06-19 12:08	Mar-06-19 12:12	Mar-06-19 12:14
<b>BTEX by EPA 8021B</b>	<i>Extracted:</i>	Mar-19-19 13:00	Mar-19-19 13:00	Mar-19-19 13:00	Mar-19-19 13:00	Mar-19-19 13:00	Mar-19-19 13:00
	<i>Analyzed:</i>	Mar-19-19 20:54	Mar-19-19 21:13	Mar-19-19 21:32	Mar-19-19 21:51	Mar-19-19 22:10	Mar-19-19 22:29
	<i>Units/RL:</i>	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	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199
Toluene		<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199
Ethylbenzene		<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199
m,p-Xylenes		0.00461 0.00400	<0.00403 0.00403	<0.00400 0.00400	<0.00399 0.00399	<0.00402 0.00402	<0.00398 0.00398
o-Xylene		<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199
Total Xylenes		0.00461 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199
Total BTEX		0.00461 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199
<b>Chloride by EPA 300</b>	<i>Extracted:</i>	Mar-14-19 12:00	Mar-14-19 12:00	Mar-14-19 12:00	Mar-14-19 12:00	Mar-14-19 12:00	Mar-14-19 12:00
	<i>Analyzed:</i>	Mar-14-19 16:11	Mar-14-19 16:22	Mar-14-19 16:33	Mar-14-19 16:43	Mar-14-19 16:54	Mar-14-19 17:05
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		502 5.00	388 5.00	514 4.95	18.8 4.99	<5.00 5.00	106 4.96
<b>TPH By SW8015 Mod</b>	<i>Extracted:</i>	Mar-15-19 10:00	Mar-15-19 10:00	Mar-15-19 10:00	Mar-15-19 10:00	Mar-15-19 10:00	Mar-15-19 10:00
	<i>Analyzed:</i>	Mar-15-19 16:29	Mar-15-19 17:27	Mar-15-19 17:47	Mar-15-19 18:07	Mar-15-19 18:26	Mar-15-19 18:46
	<i>Units/RL:</i>	mg/kg 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	<15.0 15.0
Diesel Range Organics (DRO)		<14.9 14.9	<15.0 15.0	121 14.9	<15.0 15.0	<15.0 15.0	<15.0 15.0
Motor Oil Range Hydrocarbons (MRO)		<14.9 14.9	<15.0 15.0	28.0 14.9	<15.0 15.0	<15.0 15.0	<15.0 15.0
Total TPH		<14.9 14.9	<15.0 15.0	149 14.9	<15.0 15.0	<15.0 15.0	<15.0 15.0

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Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Holly Taylor  
Project Manager



# Certificate of Analysis Summary 617507

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: Mesa Verde BS Unit #8



Project Id:

Contact: Ben Arguijo

Project Location:

Date Received in Lab: Wed Mar-13-19 12:45 pm

Report Date: 21-MAR-19

Project Manager: Holly Taylor

<i>Analysis Requested</i>	<i>Lab Id:</i>	617507-007	617507-008	617507-009	617507-010	617507-011	617507-012
	<i>Field Id:</i>	SP-7	SP-8	SP-9	SP-10	SP-11	SP-12
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Mar-06-19 12:17	Mar-06-19 12:19	Mar-06-19 12:21	Mar-06-19 13:29	Mar-06-19 13:32	Mar-06-19 13:34
<b>BTEX by EPA 8021B</b>	<i>Extracted:</i>	Mar-19-19 13:00	Mar-19-19 13:00	Mar-19-19 13:00	Mar-19-19 13:00	Mar-19-19 13:00	Mar-19-19 13:00
	<i>Analyzed:</i>	Mar-19-19 22:48	Mar-19-19 23:07	Mar-19-19 23:26	Mar-19-19 23:45	Mar-20-19 00:59	Mar-20-19 01:18
	<i>Units/RL:</i>	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	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199
Toluene		<0.00199 0.00199	<0.00202 0.00202	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199
Ethylbenzene		<0.00199 0.00199	<0.00202 0.00202	<0.00198 0.00198	<0.00200 0.00200	0.00275 0.00200	<0.00199 0.00199
m,p-Xylenes		<0.00398 0.00398	<0.00403 0.00403	<0.00397 0.00397	<0.00400 0.00400	<0.00401 0.00401	<0.00398 0.00398
o-Xylene		<0.00199 0.00199	<0.00202 0.00202	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199
Total Xylenes		<0.00199 0.00199	<0.00202 0.00202	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199
Total BTEX		<0.00199 0.00199	<0.00202 0.00202	<0.00198 0.00198	<0.00200 0.00200	0.00275 0.00200	<0.00199 0.00199
<b>Chloride by EPA 300</b>	<i>Extracted:</i>	Mar-14-19 12:00	Mar-14-19 12:30	Mar-14-19 12:30	Mar-14-19 12:30	Mar-14-19 12:30	Mar-14-19 12:30
	<i>Analyzed:</i>	Mar-14-19 17:15	Mar-15-19 08:55	Mar-15-19 09:14	Mar-15-19 09:20	Mar-15-19 09:26	Mar-15-19 09:32
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		156 5.00	10.4 5.01	83.2 5.01	44.5 5.00	68.0 4.97	45.8 4.98
<b>TPH By SW8015 Mod</b>	<i>Extracted:</i>	Mar-15-19 10:00	Mar-15-19 10:00	Mar-15-19 10:00	Mar-15-19 10:00	Mar-15-19 10:00	Mar-15-19 10:00
	<i>Analyzed:</i>	Mar-15-19 19:05	Mar-15-19 19:25	Mar-15-19 19:44	Mar-15-19 20:04	Mar-15-19 21:02	Mar-15-19 21:22
	<i>Units/RL:</i>	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	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0
Motor Oil Range Hydrocarbons (MRO)		<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	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0

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Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Holly Taylor  
Project Manager



# Certificate of Analysis Summary 617507

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: Mesa Verde BS Unit #8



Project Id:

Contact: Ben Arguijo

Project Location:

Date Received in Lab: Wed Mar-13-19 12:45 pm

Report Date: 21-MAR-19

Project Manager: Holly Taylor

<i>Analysis Requested</i>	<i>Lab Id:</i>	617507-013	617507-014	617507-015	617507-016	617507-017	617507-018
	<i>Field Id:</i>	SP-13	SP-14	SP-15	SP-16	SP-17	SP-18
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Mar-06-19 13:40	Mar-06-19 13:43	Mar-06-19 13:45	Mar-07-19 10:54	Mar-07-19 10:57	Mar-07-19 11:01
<b>BTEX by EPA 8021B</b>	<i>Extracted:</i>	Mar-19-19 13:00	Mar-19-19 13:00	Mar-19-19 13:00	Mar-20-19 13:30	Mar-20-19 13:30	Mar-20-19 13:30
	<i>Analyzed:</i>	Mar-20-19 01:37	Mar-20-19 01:56	Mar-20-19 02:15	Mar-20-19 22:45	Mar-20-19 23:04	Mar-20-19 23:23
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199
Toluene		<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199
Ethylbenzene		<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199
m,p-Xylenes		<0.00399 0.00399	<0.00402 0.00402	<0.00398 0.00398	<0.00400 0.00400	<0.00401 0.00401	<0.00398 0.00398
o-Xylene		<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199
Total Xylenes		<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199
Total BTEX		<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199
<b>Chloride by EPA 300</b>	<i>Extracted:</i>	Mar-14-19 12:30	Mar-14-19 12:30	Mar-14-19 12:30	Mar-14-19 12:30	Mar-14-19 15:00	Mar-14-19 15:00
	<i>Analyzed:</i>	Mar-15-19 09:50	Mar-15-19 09:56	Mar-15-19 10:02	Mar-15-19 10:08	Mar-14-19 17:48	Mar-14-19 18:06
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		56.4 4.96	8.74 5.01	16.4 4.97	280 4.97	113 4.97	101 5.00
<b>TPH By SW8015 Mod</b>	<i>Extracted:</i>	Mar-15-19 10:00	Mar-15-19 10:00	Mar-15-19 10:00	Mar-15-19 10:00	Mar-15-19 10:00	Mar-15-19 10:00
	<i>Analyzed:</i>	Mar-15-19 21:42	Mar-15-19 22:01	Mar-15-19 22:21	Mar-15-19 22:40	Mar-15-19 23:00	Mar-15-19 23:20
	<i>Units/RL:</i>	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	<14.9 14.9	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0
Diesel Range Organics (DRO)		<15.0 15.0	<14.9 14.9	<15.0 15.0	307 15.0	66.0 15.0	<15.0 15.0
Motor Oil Range Hydrocarbons (MRO)		<15.0 15.0	<14.9 14.9	<15.0 15.0	309 15.0	498 15.0	<15.0 15.0
Total TPH		<15.0 15.0	<14.9 14.9	<15.0 15.0	616 15.0	564 15.0	<15.0 15.0

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Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Holly Taylor  
Project Manager



# Certificate of Analysis Summary 617507

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: Mesa Verde BS Unit #8



Project Id:

Contact: Ben Arguijo

Project Location:

Date Received in Lab: Wed Mar-13-19 12:45 pm

Report Date: 21-MAR-19

Project Manager: Holly Taylor

<b>Analysis Requested</b>	<b>Lab Id:</b>	617507-019					
	<b>Field Id:</b>	SP-19					
	<b>Depth:</b>						
	<b>Matrix:</b>	SOIL					
	<b>Sampled:</b>	Mar-07-19 11:03					
<b>BTEX by EPA 8021B</b>	<b>Extracted:</b>	Mar-20-19 13:30					
	<b>Analyzed:</b>	Mar-20-19 23:42					
	<b>Units/RL:</b>	mg/kg RL					
Benzene		<0.00199 0.00199					
Toluene		<0.00199 0.00199					
Ethylbenzene		<0.00199 0.00199					
m,p-Xylenes		<0.00398 0.00398					
o-Xylene		<0.00199 0.00199					
Total Xylenes		<0.00199 0.00199					
Total BTEX		<0.00199 0.00199					
<b>Chloride by EPA 300</b>	<b>Extracted:</b>	Mar-14-19 15:00					
	<b>Analyzed:</b>	Mar-14-19 18:12					
	<b>Units/RL:</b>	mg/kg RL					
Chloride		189 4.96					
<b>TPH By SW8015 Mod</b>	<b>Extracted:</b>	Mar-15-19 10:00					
	<b>Analyzed:</b>	Mar-15-19 23:39					
	<b>Units/RL:</b>	mg/kg RL					
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0					
Diesel Range Organics (DRO)		116 15.0					
Motor Oil Range Hydrocarbons (MRO)		19.5 15.0					
Total TPH		136 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 - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Holly Taylor  
Project Manager

# **Analytical Report 617507**

**for**

## **Trinity Oilfield Services & Rentals, LLC**

**Project Manager: Ben Arguijo**

**Mesa Verde BS Unit #8**

**21-MAR-19**

Collected By: Client



**1211 W. Florida Ave**  
**Midland TX 79701**

Xenco-Houston (EPA Lab Code: TX00122):  
Texas (T104704215-18-28), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)  
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):  
Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)  
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-18)  
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)  
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)  
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)  
Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)  
Xenco-Atlanta (LELAP Lab ID #04176)  
Xenco-Tampa: Florida (E87429), North Carolina (483)  
Xenco-Lakeland: Florida (E84098)



21-MAR-19

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

Reference: XENCO Report No(s): **617507**  
**Mesa Verde BS Unit #8**  
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) 617507. 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. 617507 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,

A handwritten signature in black ink that reads 'Holly Taylor'.

---

**Holly Taylor**  
Project Manager

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

*Certified and approved by numerous States and Agencies.*

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

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





## Sample Cross Reference 617507

## Trinity Oilfield Services &amp; Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SP-1	S	03-06-19 11:50		617507-001
SP-2	S	03-06-19 11:56		617507-002
SP-3	S	03-06-19 12:03		617507-003
SP-4	S	03-06-19 12:08		617507-004
SP-5	S	03-06-19 12:12		617507-005
SP-6	S	03-06-19 12:14		617507-006
SP-7	S	03-06-19 12:17		617507-007
SP-8	S	03-06-19 12:19		617507-008
SP-9	S	03-06-19 12:21		617507-009
SP-10	S	03-06-19 13:29		617507-010
SP-11	S	03-06-19 13:32		617507-011
SP-12	S	03-06-19 13:34		617507-012
SP-13	S	03-06-19 13:40		617507-013
SP-14	S	03-06-19 13:43		617507-014
SP-15	S	03-06-19 13:45		617507-015
SP-16	S	03-07-19 10:54		617507-016
SP-17	S	03-07-19 10:57		617507-017
SP-18	S	03-07-19 11:01		617507-018
SP-19	S	03-07-19 11:03		617507-019



## CASE NARRATIVE

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

**Project Name:** *Mesa Verde BS Unit #8*

Project ID:

Work Order Number(s): 617507

Report Date: 21-MAR-19

Date Received: 03/13/2019

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**Sample receipt non conformances and comments:**

None

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**Sample receipt non conformances and comments per sample:**

None

**Analytical non conformances and comments:**

Batch: LBA-3082733 BTEX by EPA 8021B

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

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected.

Samples affected are: 617507-001,617507-009,617507-015,617507-011,617507-012,617507-010.

Batch: LBA-3082772 BTEX by EPA 8021B

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

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected.

Samples affected are: 617507-019,617507-017.



# Certificate of Analytical Results 617507



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

Sample Id: **SP-1**  
Lab Sample Id: 617507-001

Matrix: Soil  
Date Collected: 03.06.19 11.50

Date Received: 03.13.19 12.45

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.14.19 12.00

Basis: Wet Weight

Seq Number: 3082186

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	502	5.00	mg/kg	03.14.19 16.11		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 03.15.19 10.00

Basis: Wet Weight

Seq Number: 3082335

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	03.15.19 16.29	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	03.15.19 16.29	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9	mg/kg	03.15.19 16.29	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	03.15.19 16.29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	03.15.19 16.29	
o-Terphenyl	84-15-1	94	%	70-135	03.15.19 16.29	





# Certificate of Analytical Results 617507



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

Sample Id: **SP-1**

Matrix: Soil

Date Received: 03.13.19 12.45

Lab Sample Id: 617507-001

Date Collected: 03.06.19 11.50

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 03.19.19 13.00

Basis: Wet Weight

Seq Number: 3082733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.19.19 20.54	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.19.19 20.54	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.19.19 20.54	U	1
<b>m,p-Xylenes</b>	179601-23-1	<b>0.00461</b>	0.00400	mg/kg	03.19.19 20.54		1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.19.19 20.54	U	1
<b>Total Xylenes</b>	1330-20-7	<b>0.00461</b>	0.00200	mg/kg	03.19.19 20.54		1
<b>Total BTEX</b>		<b>0.00461</b>	0.00200	mg/kg	03.19.19 20.54		1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
4-Bromofluorobenzene	460-00-4	173	%	70-130	03.19.19 20.54	**	
1,4-Difluorobenzene	540-36-3	108	%	70-130	03.19.19 20.54		



# Certificate of Analytical Results 617507



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

Sample Id: **SP-2**  
Lab Sample Id: 617507-002

Matrix: Soil  
Date Collected: 03.06.19 11.56

Date Received: 03.13.19 12.45

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.14.19 12.00

Basis: Wet Weight

Seq Number: 3082186

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	388	5.00	mg/kg	03.14.19 16.22		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 03.15.19 10.00

Basis: Wet Weight

Seq Number: 3082335

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	03.15.19 17.27	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	03.15.19 17.27	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	03.15.19 17.27	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	03.15.19 17.27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-135	03.15.19 17.27	
o-Terphenyl	84-15-1	87	%	70-135	03.15.19 17.27	



# Certificate of Analytical Results 617507



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

Sample Id: **SP-2**

Matrix: Soil

Date Received: 03.13.19 12.45

Lab Sample Id: 617507-002

Date Collected: 03.06.19 11.56

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 03.19.19 13.00

Basis: Wet Weight

Seq Number: 3082733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	03.19.19 21.13	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	03.19.19 21.13	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	03.19.19 21.13	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	03.19.19 21.13	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	03.19.19 21.13	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	03.19.19 21.13	U	1
Total BTEX		<0.00202	0.00202	mg/kg	03.19.19 21.13	U	1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
4-Bromofluorobenzene	460-00-4	122	%	70-130	03.19.19 21.13		
1,4-Difluorobenzene	540-36-3	116	%	70-130	03.19.19 21.13		



# Certificate of Analytical Results 617507



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

Sample Id: **SP-3**  
Lab Sample Id: 617507-003

Matrix: Soil  
Date Collected: 03.06.19 12.03

Date Received: 03.13.19 12.45

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.14.19 12.00

Basis: Wet Weight

Seq Number: 3082186

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	514	4.95	mg/kg	03.14.19 16.33		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 03.15.19 10.00

Basis: Wet Weight

Seq Number: 3082335

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	03.15.19 17.47	U	1
Diesel Range Organics (DRO)	C10C28DRO	121	14.9	mg/kg	03.15.19 17.47		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	28.0	14.9	mg/kg	03.15.19 17.47		1
Total TPH	PHC635	149	14.9	mg/kg	03.15.19 17.47		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	03.15.19 17.47	
o-Terphenyl	84-15-1	91	%	70-135	03.15.19 17.47	





# Certificate of Analytical Results 617507



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

Sample Id: **SP-3**

Matrix: Soil

Date Received: 03.13.19 12.45

Lab Sample Id: 617507-003

Date Collected: 03.06.19 12.03

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 03.19.19 13.00

Basis: Wet Weight

Seq Number: 3082733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.19.19 21.32	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.19.19 21.32	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.19.19 21.32	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	03.19.19 21.32	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.19.19 21.32	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.19.19 21.32	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.19.19 21.32	U	1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
4-Bromofluorobenzene	460-00-4	120	%	70-130	03.19.19 21.32		
1,4-Difluorobenzene	540-36-3	117	%	70-130	03.19.19 21.32		



# Certificate of Analytical Results 617507



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

Sample Id: **SP-4**  
Lab Sample Id: 617507-004

Matrix: Soil  
Date Collected: 03.06.19 12.08

Date Received: 03.13.19 12.45

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.14.19 12.00

Basis: Wet Weight

Seq Number: 3082186

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	18.8	4.99	mg/kg	03.14.19 16.43		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 03.15.19 10.00

Basis: Wet Weight

Seq Number: 3082335

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	03.15.19 18.07	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	03.15.19 18.07	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	03.15.19 18.07	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	03.15.19 18.07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-135	03.15.19 18.07	
o-Terphenyl	84-15-1	85	%	70-135	03.15.19 18.07	



# Certificate of Analytical Results 617507



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

Sample Id: **SP-4**

Matrix: Soil

Date Received: 03.13.19 12.45

Lab Sample Id: 617507-004

Date Collected: 03.06.19 12.08

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 03.19.19 13.00

Basis: Wet Weight

Seq Number: 3082733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.19.19 21.51	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.19.19 21.51	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.19.19 21.51	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	03.19.19 21.51	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.19.19 21.51	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.19.19 21.51	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.19.19 21.51	U	1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
4-Bromofluorobenzene	460-00-4	122	%	70-130	03.19.19 21.51		
1,4-Difluorobenzene	540-36-3	115	%	70-130	03.19.19 21.51		





# Certificate of Analytical Results 617507



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

Sample Id: **SP-5**  
Lab Sample Id: 617507-005

Matrix: Soil  
Date Collected: 03.06.19 12.12

Date Received: 03.13.19 12.45

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.14.19 12.00

Basis: Wet Weight

Seq Number: 3082186

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.00	5.00	mg/kg	03.14.19 16.54	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 03.15.19 10.00

Basis: Wet Weight

Seq Number: 3082335

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	03.15.19 18.26	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	03.15.19 18.26	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	03.15.19 18.26	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	03.15.19 18.26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-135	03.15.19 18.26	
o-Terphenyl	84-15-1	90	%	70-135	03.15.19 18.26	



# Certificate of Analytical Results 617507



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

Sample Id: **SP-5**

Matrix: Soil

Date Received: 03.13.19 12.45

Lab Sample Id: 617507-005

Date Collected: 03.06.19 12.12

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 03.19.19 13.00

Basis: Wet Weight

Seq Number: 3082733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	03.19.19 22.10	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	03.19.19 22.10	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	03.19.19 22.10	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	03.19.19 22.10	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	03.19.19 22.10	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	03.19.19 22.10	U	1
Total BTEX		<0.00201	0.00201	mg/kg	03.19.19 22.10	U	1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
4-Bromofluorobenzene	460-00-4	120	%	70-130	03.19.19 22.10		
1,4-Difluorobenzene	540-36-3	115	%	70-130	03.19.19 22.10		



# Certificate of Analytical Results 617507



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

Sample Id: **SP-6**  
Lab Sample Id: 617507-006

Matrix: Soil  
Date Collected: 03.06.19 12.14

Date Received: 03.13.19 12.45

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.14.19 12.00

Basis: Wet Weight

Seq Number: 3082186

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	106	4.96	mg/kg	03.14.19 17.05		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 03.15.19 10.00

Basis: Wet Weight

Seq Number: 3082335

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	03.15.19 18.46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	03.15.19 18.46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	03.15.19 18.46	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	03.15.19 18.46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-135	03.15.19 18.46	
o-Terphenyl	84-15-1	88	%	70-135	03.15.19 18.46	





# Certificate of Analytical Results 617507



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

Sample Id: **SP-6**

Matrix: Soil

Date Received: 03.13.19 12.45

Lab Sample Id: 617507-006

Date Collected: 03.06.19 12.14

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 03.19.19 13.00

Basis: Wet Weight

Seq Number: 3082733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	03.19.19 22.29	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	03.19.19 22.29	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	03.19.19 22.29	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	03.19.19 22.29	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	03.19.19 22.29	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	03.19.19 22.29	U	1
Total BTEX		<0.00199	0.00199	mg/kg	03.19.19 22.29	U	1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
1,4-Difluorobenzene	540-36-3	115	%	70-130	03.19.19 22.29		
4-Bromofluorobenzene	460-00-4	119	%	70-130	03.19.19 22.29		



# Certificate of Analytical Results 617507



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

Sample Id: **SP-7**  
Lab Sample Id: 617507-007

Matrix: Soil  
Date Collected: 03.06.19 12.17

Date Received: 03.13.19 12.45

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.14.19 12.00

Basis: Wet Weight

Seq Number: 3082186

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	156	5.00	mg/kg	03.14.19 17.15		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 03.15.19 10.00

Basis: Wet Weight

Seq Number: 3082335

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	03.15.19 19.05	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	03.15.19 19.05	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	03.15.19 19.05	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	03.15.19 19.05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-135	03.15.19 19.05	
o-Terphenyl	84-15-1	88	%	70-135	03.15.19 19.05	



# Certificate of Analytical Results 617507



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

Sample Id: **SP-7**

Matrix: Soil

Date Received: 03.13.19 12.45

Lab Sample Id: 617507-007

Date Collected: 03.06.19 12.17

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 03.19.19 13.00

Basis: Wet Weight

Seq Number: 3082733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	03.19.19 22.48	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	03.19.19 22.48	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	03.19.19 22.48	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	03.19.19 22.48	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	03.19.19 22.48	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	03.19.19 22.48	U	1
Total BTEX		<0.00199	0.00199	mg/kg	03.19.19 22.48	U	1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
4-Bromofluorobenzene	460-00-4	125	%	70-130	03.19.19 22.48		
1,4-Difluorobenzene	540-36-3	114	%	70-130	03.19.19 22.48		





# Certificate of Analytical Results 617507

## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

Sample Id: **SP-8**  
 Lab Sample Id: 617507-008

Matrix: Soil  
 Date Collected: 03.06.19 12.19

Date Received: 03.13.19 12.45

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.14.19 12.30

Basis: Wet Weight

Seq Number: 3082248

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	10.4	5.01	mg/kg	03.15.19 08.55		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 03.15.19 10.00

Basis: Wet Weight

Seq Number: 3082335

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	03.15.19 19.25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	03.15.19 19.25	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	03.15.19 19.25	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	03.15.19 19.25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	03.15.19 19.25	
o-Terphenyl	84-15-1	103	%	70-135	03.15.19 19.25	



# Certificate of Analytical Results 617507



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

Sample Id: **SP-8**

Matrix: Soil

Date Received: 03.13.19 12.45

Lab Sample Id: 617507-008

Date Collected: 03.06.19 12.19

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 03.19.19 13.00

Basis: Wet Weight

Seq Number: 3082733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	03.19.19 23.07	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	03.19.19 23.07	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	03.19.19 23.07	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	03.19.19 23.07	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	03.19.19 23.07	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	03.19.19 23.07	U	1
Total BTEX		<0.00202	0.00202	mg/kg	03.19.19 23.07	U	1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
4-Bromofluorobenzene	460-00-4	121	%	70-130	03.19.19 23.07		
1,4-Difluorobenzene	540-36-3	115	%	70-130	03.19.19 23.07		



# Certificate of Analytical Results 617507



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

Sample Id: **SP-9**

Matrix: Soil

Date Received: 03.13.19 12.45

Lab Sample Id: 617507-009

Date Collected: 03.06.19 12.21

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.14.19 12.30

Basis: Wet Weight

Seq Number: 3082248

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	83.2	5.01	mg/kg	03.15.19 09.14		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 03.15.19 10.00

Basis: Wet Weight

Seq Number: 3082335

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	03.15.19 19.44	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	03.15.19 19.44	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	03.15.19 19.44	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	03.15.19 19.44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-135	03.15.19 19.44	
o-Terphenyl	84-15-1	87	%	70-135	03.15.19 19.44	



# Certificate of Analytical Results 617507



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

Sample Id: **SP-9**

Matrix: Soil

Date Received: 03.13.19 12.45

Lab Sample Id: 617507-009

Date Collected: 03.06.19 12.21

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 03.19.19 13.00

Basis: Wet Weight

Seq Number: 3082733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	03.19.19 23.26	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	03.19.19 23.26	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	03.19.19 23.26	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	03.19.19 23.26	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	03.19.19 23.26	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	03.19.19 23.26	U	1
Total BTEX		<0.00198	0.00198	mg/kg	03.19.19 23.26	U	1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
4-Bromofluorobenzene	460-00-4	158	%	70-130	03.19.19 23.26	**	
1,4-Difluorobenzene	540-36-3	106	%	70-130	03.19.19 23.26		





# Certificate of Analytical Results 617507



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

Sample Id: **SP-10**  
Lab Sample Id: 617507-010

Matrix: Soil  
Date Collected: 03.06.19 13.29

Date Received: 03.13.19 12.45

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.14.19 12.30

Basis: Wet Weight

Seq Number: 3082248

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	44.5	5.00	mg/kg	03.15.19 09.20		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 03.15.19 10.00

Basis: Wet Weight

Seq Number: 3082335

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	03.15.19 20.04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	03.15.19 20.04	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	03.15.19 20.04	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	03.15.19 20.04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	03.15.19 20.04	
o-Terphenyl	84-15-1	90	%	70-135	03.15.19 20.04	



# Certificate of Analytical Results 617507



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

Sample Id: **SP-10**  
Lab Sample Id: 617507-010

Matrix: Soil  
Date Collected: 03.06.19 13.29

Date Received: 03.13.19 12.45

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 03.19.19 13.00

Basis: Wet Weight

Seq Number: 3082733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.19.19 23.45	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.19.19 23.45	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.19.19 23.45	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	03.19.19 23.45	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.19.19 23.45	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.19.19 23.45	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.19.19 23.45	U	1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
4-Bromofluorobenzene	460-00-4	166	%	70-130	03.19.19 23.45	**	
1,4-Difluorobenzene	540-36-3	113	%	70-130	03.19.19 23.45		



# Certificate of Analytical Results 617507



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

Sample Id: **SP-11**  
Lab Sample Id: 617507-011

Matrix: Soil  
Date Collected: 03.06.19 13.32

Date Received: 03.13.19 12.45

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.14.19 12.30

Basis: Wet Weight

Seq Number: 3082248

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	68.0	4.97	mg/kg	03.15.19 09.26		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 03.15.19 10.00

Basis: Wet Weight

Seq Number: 3082335

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	03.15.19 21.02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	03.15.19 21.02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	03.15.19 21.02	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	03.15.19 21.02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-135	03.15.19 21.02	
o-Terphenyl	84-15-1	92	%	70-135	03.15.19 21.02	



# Certificate of Analytical Results 617507



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

Sample Id: **SP-11**  
Lab Sample Id: 617507-011

Matrix: Soil  
Date Collected: 03.06.19 13.32

Date Received: 03.13.19 12.45

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 03.19.19 13.00

Basis: Wet Weight

Seq Number: 3082733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.20.19 00.59	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.20.19 00.59	U	1
<b>Ethylbenzene</b>	100-41-4	<b>0.00275</b>	0.00200	mg/kg	03.20.19 00.59		1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	03.20.19 00.59	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.20.19 00.59	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.20.19 00.59	U	1
<b>Total BTEX</b>		<b>0.00275</b>	0.00200	mg/kg	03.20.19 00.59		1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
1,4-Difluorobenzene	540-36-3	105	%	70-130	03.20.19 00.59		
4-Bromofluorobenzene	460-00-4	160	%	70-130	03.20.19 00.59	**	





# Certificate of Analytical Results 617507



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

Sample Id: **SP-12**  
Lab Sample Id: 617507-012

Matrix: Soil  
Date Collected: 03.06.19 13.34

Date Received: 03.13.19 12.45

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.14.19 12.30

Basis: Wet Weight

Seq Number: 3082248

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	45.8	4.98	mg/kg	03.15.19 09.32		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 03.15.19 10.00

Basis: Wet Weight

Seq Number: 3082335

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	03.15.19 21.22	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	03.15.19 21.22	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	03.15.19 21.22	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	03.15.19 21.22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	03.15.19 21.22	
o-Terphenyl	84-15-1	88	%	70-135	03.15.19 21.22	



# Certificate of Analytical Results 617507



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

Sample Id: **SP-12**  
Lab Sample Id: 617507-012

Matrix: Soil  
Date Collected: 03.06.19 13.34

Date Received: 03.13.19 12.45

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 03.19.19 13.00

Basis: Wet Weight

Seq Number: 3082733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	03.20.19 01.18	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	03.20.19 01.18	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	03.20.19 01.18	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	03.20.19 01.18	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	03.20.19 01.18	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	03.20.19 01.18	U	1
Total BTEX		<0.00199	0.00199	mg/kg	03.20.19 01.18	U	1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
1,4-Difluorobenzene	540-36-3	111	%	70-130	03.20.19 01.18		
4-Bromofluorobenzene	460-00-4	150	%	70-130	03.20.19 01.18	**	



# Certificate of Analytical Results 617507



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

Sample Id: **SP-13**  
Lab Sample Id: 617507-013

Matrix: Soil  
Date Collected: 03.06.19 13.40

Date Received: 03.13.19 12.45

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.14.19 12.30

Basis: Wet Weight

Seq Number: 3082248

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	56.4	4.96	mg/kg	03.15.19 09.50		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 03.15.19 10.00

Basis: Wet Weight

Seq Number: 3082335

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	03.15.19 21.42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	03.15.19 21.42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	03.15.19 21.42	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	03.15.19 21.42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-135	03.15.19 21.42	
o-Terphenyl	84-15-1	88	%	70-135	03.15.19 21.42	



# Certificate of Analytical Results 617507



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

Sample Id: **SP-13**  
Lab Sample Id: 617507-013

Matrix: Soil  
Date Collected: 03.06.19 13.40

Date Received: 03.13.19 12.45

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 03.19.19 13.00

Basis: Wet Weight

Seq Number: 3082733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.20.19 01.37	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.20.19 01.37	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.20.19 01.37	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	03.20.19 01.37	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.20.19 01.37	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.20.19 01.37	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.20.19 01.37	U	1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
4-Bromofluorobenzene	460-00-4	124	%	70-130	03.20.19 01.37		
1,4-Difluorobenzene	540-36-3	116	%	70-130	03.20.19 01.37		





# Certificate of Analytical Results 617507



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

Sample Id: **SP-14**  
Lab Sample Id: 617507-014

Matrix: Soil  
Date Collected: 03.06.19 13.43

Date Received: 03.13.19 12.45

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.14.19 12.30

Basis: Wet Weight

Seq Number: 3082248

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8.74	5.01	mg/kg	03.15.19 09.56		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 03.15.19 10.00

Basis: Wet Weight

Seq Number: 3082335

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	03.15.19 22.01	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	03.15.19 22.01	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9	mg/kg	03.15.19 22.01	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	03.15.19 22.01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	03.15.19 22.01	
o-Terphenyl	84-15-1	101	%	70-135	03.15.19 22.01	



# Certificate of Analytical Results 617507



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

Sample Id: **SP-14**  
Lab Sample Id: 617507-014

Matrix: Soil  
Date Collected: 03.06.19 13.43

Date Received: 03.13.19 12.45

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 03.19.19 13.00

Basis: Wet Weight

Seq Number: 3082733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	03.20.19 01.56	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	03.20.19 01.56	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	03.20.19 01.56	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	03.20.19 01.56	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	03.20.19 01.56	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	03.20.19 01.56	U	1
Total BTEX		<0.00201	0.00201	mg/kg	03.20.19 01.56	U	1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
1,4-Difluorobenzene	540-36-3	113	%	70-130	03.20.19 01.56		
4-Bromofluorobenzene	460-00-4	119	%	70-130	03.20.19 01.56		



# Certificate of Analytical Results 617507



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

Sample Id: **SP-15**  
Lab Sample Id: 617507-015

Matrix: Soil  
Date Collected: 03.06.19 13.45

Date Received: 03.13.19 12.45

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.14.19 12.30

Basis: Wet Weight

Seq Number: 3082248

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	16.4	4.97	mg/kg	03.15.19 10.02		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 03.15.19 10.00

Basis: Wet Weight

Seq Number: 3082335

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	03.15.19 22.21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	03.15.19 22.21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	03.15.19 22.21	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	03.15.19 22.21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-135	03.15.19 22.21	
o-Terphenyl	84-15-1	88	%	70-135	03.15.19 22.21	



# Certificate of Analytical Results 617507



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

Sample Id: **SP-15**

Matrix: Soil

Date Received: 03.13.19 12.45

Lab Sample Id: 617507-015

Date Collected: 03.06.19 13.45

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 03.19.19 13.00

Basis: Wet Weight

Seq Number: 3082733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	03.20.19 02.15	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	03.20.19 02.15	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	03.20.19 02.15	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	03.20.19 02.15	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	03.20.19 02.15	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	03.20.19 02.15	U	1
Total BTEX		<0.00199	0.00199	mg/kg	03.20.19 02.15	U	1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
4-Bromofluorobenzene	460-00-4	165	%	70-130	03.20.19 02.15	**	
1,4-Difluorobenzene	540-36-3	108	%	70-130	03.20.19 02.15		





# Certificate of Analytical Results 617507



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

Sample Id: **SP-16**  
Lab Sample Id: 617507-016

Matrix: Soil  
Date Collected: 03.07.19 10.54

Date Received: 03.13.19 12.45

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.14.19 12.30

Basis: Wet Weight

Seq Number: 3082248

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	280	4.97	mg/kg	03.15.19 10.08		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 03.15.19 10.00

Basis: Wet Weight

Seq Number: 3082335

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	03.15.19 22.40	U	1
Diesel Range Organics (DRO)	C10C28DRO	307	15.0	mg/kg	03.15.19 22.40		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	309	15.0	mg/kg	03.15.19 22.40		1
Total TPH	PHC635	616	15.0	mg/kg	03.15.19 22.40		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	03.15.19 22.40	
o-Terphenyl	84-15-1	93	%	70-135	03.15.19 22.40	



# Certificate of Analytical Results 617507

## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

Sample Id: **SP-16**  
 Lab Sample Id: 617507-016

Matrix: Soil  
 Date Collected: 03.07.19 10.54

Date Received: 03.13.19 12.45

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 03.20.19 13.30

Basis: Wet Weight

Seq Number: 3082772

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.20.19 22.45	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.20.19 22.45	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.20.19 22.45	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	03.20.19 22.45	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.20.19 22.45	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.20.19 22.45	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.20.19 22.45	U	1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
4-Bromofluorobenzene	460-00-4	125	%	70-130	03.20.19 22.45		
1,4-Difluorobenzene	540-36-3	110	%	70-130	03.20.19 22.45		



# Certificate of Analytical Results 617507

## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

Sample Id: **SP-17**  
 Lab Sample Id: 617507-017

Matrix: Soil  
 Date Collected: 03.07.19 10.57

Date Received: 03.13.19 12.45

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.14.19 15.00

Basis: Wet Weight

Seq Number: 3082188

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	113	4.97	mg/kg	03.14.19 17.48		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 03.15.19 10.00

Basis: Wet Weight

Seq Number: 3082335

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	03.15.19 23.00	U	1
Diesel Range Organics (DRO)	C10C28DRO	66.0	15.0	mg/kg	03.15.19 23.00		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	498	15.0	mg/kg	03.15.19 23.00		1
Total TPH	PHC635	564	15.0	mg/kg	03.15.19 23.00		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	03.15.19 23.00	
o-Terphenyl	84-15-1	92	%	70-135	03.15.19 23.00	



# Certificate of Analytical Results 617507



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

Sample Id: **SP-17**

Matrix: Soil

Date Received: 03.13.19 12.45

Lab Sample Id: 617507-017

Date Collected: 03.07.19 10.57

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 03.20.19 13.30

Basis: Wet Weight

Seq Number: 3082772

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.20.19 23.04	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.20.19 23.04	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.20.19 23.04	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	03.20.19 23.04	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.20.19 23.04	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.20.19 23.04	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.20.19 23.04	U	1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
4-Bromofluorobenzene	460-00-4	141	%	70-130	03.20.19 23.04	**	
1,4-Difluorobenzene	540-36-3	110	%	70-130	03.20.19 23.04		



# Certificate of Analytical Results 617507



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

Sample Id: **SP-18**  
Lab Sample Id: 617507-018

Matrix: Soil  
Date Collected: 03.07.19 11.01

Date Received: 03.13.19 12.45

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.14.19 15.00

Basis: Wet Weight

Seq Number: 3082188

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	101	5.00	mg/kg	03.14.19 18.06		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 03.15.19 10.00

Basis: Wet Weight

Seq Number: 3082335

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	03.15.19 23.20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	03.15.19 23.20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	03.15.19 23.20	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	03.15.19 23.20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-135	03.15.19 23.20	
o-Terphenyl	84-15-1	89	%	70-135	03.15.19 23.20	





# Certificate of Analytical Results 617507



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

Sample Id: **SP-18**

Matrix: Soil

Date Received: 03.13.19 12.45

Lab Sample Id: 617507-018

Date Collected: 03.07.19 11.01

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 03.20.19 13.30

Basis: Wet Weight

Seq Number: 3082772

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	03.20.19 23.23	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	03.20.19 23.23	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	03.20.19 23.23	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	03.20.19 23.23	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	03.20.19 23.23	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	03.20.19 23.23	U	1
Total BTEX		<0.00199	0.00199	mg/kg	03.20.19 23.23	U	1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
4-Bromofluorobenzene	460-00-4	113	%	70-130	03.20.19 23.23		
1,4-Difluorobenzene	540-36-3	114	%	70-130	03.20.19 23.23		



# Certificate of Analytical Results 617507



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

Sample Id: **SP-19**  
Lab Sample Id: 617507-019

Matrix: Soil  
Date Collected: 03.07.19 11.03

Date Received: 03.13.19 12.45

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.14.19 15.00

Basis: Wet Weight

Seq Number: 3082188

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	189	4.96	mg/kg	03.14.19 18.12		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 03.15.19 10.00

Basis: Wet Weight

Seq Number: 3082335

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	03.15.19 23.39	U	1
Diesel Range Organics (DRO)	C10C28DRO	116	15.0	mg/kg	03.15.19 23.39		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	19.5	15.0	mg/kg	03.15.19 23.39		1
Total TPH	PHC635	136	15.0	mg/kg	03.15.19 23.39		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	03.15.19 23.39	
o-Terphenyl	84-15-1	96	%	70-135	03.15.19 23.39	



# Certificate of Analytical Results 617507



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

Sample Id: **SP-19**

Matrix: Soil

Date Received: 03.13.19 12.45

Lab Sample Id: 617507-019

Date Collected: 03.07.19 11.03

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 03.20.19 13.30

Basis: Wet Weight

Seq Number: 3082772

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	03.20.19 23.42	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	03.20.19 23.42	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	03.20.19 23.42	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	03.20.19 23.42	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	03.20.19 23.42	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	03.20.19 23.42	U	1
Total BTEX		<0.00199	0.00199	mg/kg	03.20.19 23.42	U	1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
1,4-Difluorobenzene	540-36-3	109	%	70-130	03.20.19 23.42		
4-Bromofluorobenzene	460-00-4	147	%	70-130	03.20.19 23.42	**	



## Flagging Criteria



- 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

**SMP** Client Sample      **BLK** Method Blank

**BKS/LCS** Blank Spike/Laboratory Control Sample      **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

**MD/SD** Method Duplicate/Sample Duplicate      **MS** Matrix Spike      **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

\* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



## Trinity Oilfield Services &amp; Rentals, LLC

Mesa Verde BS Unit #8

**Analytical Method: Chloride by EPA 300**

Seq Number: 3082186

MB Sample Id: 7673570-1-BLK

Matrix: Solid

LCS Sample Id: 7673570-1-BKS

Prep Method: E300P

Date Prep: 03.14.19

LCSD Sample Id: 7673570-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.858	250	263	105	263	105	90-110	0	20	mg/kg	03.14.19 10:15	

**Analytical Method: Chloride by EPA 300**

Seq Number: 3082248

MB Sample Id: 7673573-1-BLK

Matrix: Solid

LCS Sample Id: 7673573-1-BKS

Prep Method: E300P

Date Prep: 03.14.19

LCSD Sample Id: 7673573-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.858	250	243	97	244	98	90-110	0	20	mg/kg	03.15.19 08:43	

**Analytical Method: Chloride by EPA 300**

Seq Number: 3082188

MB Sample Id: 7673579-1-BLK

Matrix: Solid

LCS Sample Id: 7673579-1-BKS

Prep Method: E300P

Date Prep: 03.14.19

LCSD Sample Id: 7673579-1-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	245	98	245	98	90-110	0	20	mg/kg	03.14.19 15:48	

**Analytical Method: Chloride by EPA 300**

Seq Number: 3082186

Parent Sample Id: 617505-006

Matrix: Soil

MS Sample Id: 617505-006 S

Prep Method: E300P

Date Prep: 03.14.19

MSD Sample Id: 617505-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	155	248	415	105	415	105	90-110	0	20	mg/kg	03.14.19 12:38	

**Analytical Method: Chloride by EPA 300**

Seq Number: 3082186

Parent Sample Id: 617506-007

Matrix: Soil

MS Sample Id: 617506-007 S

Prep Method: E300P

Date Prep: 03.14.19

MSD Sample Id: 617506-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1.48	248	276	111	276	111	90-110	0	20	mg/kg	03.14.19 15:07	X

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

$[D] = 100 * (C - A) / B$   
 $RPD = 200 * |(C - E) / (C + E)|$   
 $[D] = 100 * (C) / [B]$   
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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 &amp; Rentals, LLC

Mesa Verde BS Unit #8

**Analytical Method: Chloride by EPA 300**

Seq Number: 3082248

Parent Sample Id: 617507-008

Matrix: Soil

MS Sample Id: 617507-008 S

Prep Method: E300P

Date Prep: 03.14.19

MSD Sample Id: 617507-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	10.4	251	258	99	259	99	90-110	0	20	mg/kg	03.15.19 09:01	

**Analytical Method: Chloride by EPA 300**

Seq Number: 3082248

Parent Sample Id: 617561-002

Matrix: Soil

MS Sample Id: 617561-002 S

Prep Method: E300P

Date Prep: 03.14.19

MSD Sample Id: 617561-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	2.01	248	245	98	245	98	90-110	0	20	mg/kg	03.15.19 10:45	

**Analytical Method: Chloride by EPA 300**

Seq Number: 3082188

Parent Sample Id: 617631-004

Matrix: Soil

MS Sample Id: 617631-004 S

Prep Method: E300P

Date Prep: 03.14.19

MSD Sample Id: 617631-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	5.78	250	258	101	259	101	90-110	0	20	mg/kg	03.14.19 16:06	

**Analytical Method: Chloride by EPA 300**

Seq Number: 3082188

Parent Sample Id: 617687-004

Matrix: Soil

MS Sample Id: 617687-004 S

Prep Method: E300P

Date Prep: 03.14.19

MSD Sample Id: 617687-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	7.45	248	254	99	253	99	90-110	0	20	mg/kg	03.14.19 17:30	

**Analytical Method: TPH By SW8015 Mod**

Seq Number: 3082335

MB Sample Id: 7673699-1-BLK

Matrix: Solid

LCS Sample Id: 7673699-1-BKS

Prep Method: TX1005P

Date Prep: 03.15.19

LCSD Sample Id: 7673699-1-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)	<8.00	1000	1030	103	1100	110	70-135	7	20	mg/kg	03.15.19 15:51	
Diesel Range Organics (DRO)	<8.13	1000	1020	102	1090	109	70-135	7	20	mg/kg	03.15.19 15:51	

**Surrogate**

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	90		117		129		70-135	%	03.15.19 15:51
o-Terphenyl	91		98		113		70-135	%	03.15.19 15:51

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

$[D] = 100 * (C-A) / B$   
 $RPD = 200 * |(C-E) / (C+E)|$   
 $[D] = 100 * (C) / [B]$   
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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 &amp; Rentals, LLC

Mesa Verde BS Unit #8

Analytical Method: TPH By SW8015 Mod

Seq Number: 3082335

Parent Sample Id: 617507-001

Matrix: Soil

MS Sample Id: 617507-001 S

Prep Method: TX1005P

Date Prep: 03.15.19

MSD Sample Id: 617507-001 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)	<7.99	998	1020	102	908	91	70-135	12	20	mg/kg	03.15.19 16:48	
Diesel Range Organics (DRO)	<8.11	998	1040	104	917	92	70-135	13	20	mg/kg	03.15.19 16:48	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	115		104		70-135	%	03.15.19 16:48
o-Terphenyl	102		88		70-135	%	03.15.19 16:48

Analytical Method: BTEX by EPA 8021B

Seq Number: 3082733

MB Sample Id: 7673950-1-BLK

Matrix: Solid

LCS Sample Id: 7673950-1-BKS

Prep Method: SW5030B

Date Prep: 03.19.19

LCSD Sample Id: 7673950-1-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	0.120	120	0.121	120	70-130	1	35	mg/kg	03.19.19 19:02	
Toluene	<0.00200	0.0998	0.121	121	0.121	120	70-130	0	35	mg/kg	03.19.19 19:02	
Ethylbenzene	<0.000564	0.0998	0.107	107	0.107	106	70-130	0	35	mg/kg	03.19.19 19:02	
m,p-Xylenes	<0.00101	0.200	0.211	106	0.211	105	70-130	0	35	mg/kg	03.19.19 19:02	
o-Xylene	<0.00200	0.0998	0.106	106	0.106	105	70-130	0	35	mg/kg	03.19.19 19:02	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	116		107		109		70-130	%	03.19.19 19:02
4-Bromofluorobenzene	110		107		108		70-130	%	03.19.19 19:02

Analytical Method: BTEX by EPA 8021B

Seq Number: 3082772

MB Sample Id: 7673968-1-BLK

Matrix: Solid

LCS Sample Id: 7673968-1-BKS

Prep Method: SW5030B

Date Prep: 03.20.19

LCSD Sample Id: 7673968-1-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	0.113	113	0.117	117	70-130	3	35	mg/kg	03.20.19 14:50	
Toluene	<0.00200	0.100	0.114	114	0.118	118	70-130	3	35	mg/kg	03.20.19 14:50	
Ethylbenzene	<0.000565	0.100	0.101	101	0.103	103	70-130	2	35	mg/kg	03.20.19 14:50	
m,p-Xylenes	<0.00101	0.200	0.198	99	0.203	101	70-130	2	35	mg/kg	03.20.19 14:50	
o-Xylene	<0.00200	0.100	0.0992	99	0.102	102	70-130	3	35	mg/kg	03.20.19 14:50	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	117		108		109		70-130	%	03.20.19 14:50
4-Bromofluorobenzene	114		105		108		70-130	%	03.20.19 14:50

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

[D] = 100\*(C-A) / B  
RPD = 200\* |(C-E) / (C+E)|  
[D] = 100 \* (C) / [B]  
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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 &amp; Rentals, LLC

Mesa Verde BS Unit #8

Analytical Method: BTEX by EPA 8021B

Seq Number: 3082733

Parent Sample Id: 617507-001

Matrix: Soil

MS Sample Id: 617507-001 S

Prep Method: SW5030B

Date Prep: 03.19.19

MSD Sample Id: 617507-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0942	94	0.108	109	70-130	14	35	mg/kg	03.19.19 19:40	
Toluene	<0.00200	0.100	0.111	111	0.108	109	70-130	3	35	mg/kg	03.19.19 19:40	
Ethylbenzene	<0.00200	0.100	0.0953	95	0.0915	92	70-130	4	35	mg/kg	03.19.19 19:40	
m,p-Xylenes	0.00461	0.200	0.195	95	0.180	88	70-130	8	35	mg/kg	03.19.19 19:40	
o-Xylene	<0.00200	0.100	0.100	100	0.0915	92	70-130	9	35	mg/kg	03.19.19 19:40	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		109		70-130	%	03.19.19 19:40
4-Bromofluorobenzene	126		112		70-130	%	03.19.19 19:40

Analytical Method: BTEX by EPA 8021B

Seq Number: 3082772

Parent Sample Id: 618088-010

Matrix: Soil

MS Sample Id: 618088-010 S

Prep Method: SW5030B

Date Prep: 03.20.19

MSD Sample Id: 618088-010 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0994	0.104	105	0.107	107	70-130	3	35	mg/kg	03.20.19 15:32	
Toluene	0.000601	0.0994	0.107	107	0.109	108	70-130	2	35	mg/kg	03.20.19 15:32	
Ethylbenzene	<0.000561	0.0994	0.0960	97	0.0944	94	70-130	2	35	mg/kg	03.20.19 15:32	
m,p-Xylenes	<0.00101	0.199	0.189	95	0.186	93	70-130	2	35	mg/kg	03.20.19 15:32	
o-Xylene	0.000391	0.0994	0.0955	96	0.0931	93	70-130	3	35	mg/kg	03.20.19 15:32	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	107		110		70-130	%	03.20.19 15:32
4-Bromofluorobenzene	113		111		70-130	%	03.20.19 15:32

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

$[D] = 100 * (C - A) / B$   
 $RPD = 200 * |(C - E) / (C + E)|$   
 $[D] = 100 * (C) / [B]$   
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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)563-1800  
 ,rool-c

Page 1 of 2

LAB W.O #:

Field billable Hrs :

617507

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 _____			

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: Mesa Verde BS Unit #8	PO#:	
Invoice To: Oxy - Wade Dittrich (575)390-2828	Quote #:	

TAT Work Days = D Need results by: \_\_\_\_\_ Time: \_\_\_\_\_

Std (5-7D) 5Hrs 1D 2D 3D 4D 5D 7D 10D 14D Other \_\_\_\_\_

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

Sample #	Sample ID	Collect Date	Collect Time	Matrix Code ^	Field Integrity OK (Y/N)	Total # of Containers
1	SP-1	3/6/19	1150	S		1
2	SP-2	3/6/19	1156	S		1
3	SP-3	3/6/19	1203	S		1
4	SP-4	3/6/19	1208	S		1
5	SP-5	3/6/19	1212	S		1
6	SP-6	3/6/19	1214	S		1
7	SP-7	3/6/19	1217	S		1
8	SP-8	3/6/19	1219	S		1
9	SP-9	3/6/19	1221	S		1
0	SP-10	3/6/19	1329	S		1

ANALYSES REQUESTED									
Cont Type VC	GC	GC	GC						
Pres Type**	I	I	I						
Example Volatiles by 8260	TPH 8015M	BTEX	Chloride						
# Cont	Lab Only:								
	X	X	X						
	X	X	X						
	X	X	X						
	X	X	X						
	X	X	X						
	X	X	X						
	X	X	X						
	X	X	X						
	X	X	X						

** Preservative Type Codes		
A. None	E. HCL	I. Ice
B. HNO <sub>3</sub>	F. MeOH	J. MCAA
C. H <sub>2</sub> SO <sub>4</sub>	G. Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	K. ZnAc&NaOH
D. NaOH	H. NaHSO <sub>4</sub>	L. Asbc Acid&NaOH
O. _____		
^ Matrix Type Codes		
GW Ground Water	S	Soil/Sediment/Solid
WW Waste Water	W	Wipe
DW Drinking Water	A	Air
SW Surface Water	O	Oil
OW Ocean/Sea Water	T	Tissue
PL Product-Liquid	U	Urine
PS Product-Solid	B	Blood
SL Sludge		
Other _____		

## REMARKS

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	FL	TX	GA	NC	SC	NJ	PA	OK	1	2	3	4	CLP	AFCEE	QAPP	ADaPT	SEDD	ERPIMS	Match	Incomplete	1-1.82	3	Non-Conformances found?
Other:					LA	AL	NM	Other:					NELAC	DoD-ELAP	Other:				XLS	Other:							Samples intact upon arrival?
Relinquished by					Affiliation					Date					Time					Received by			Affiliation		Date		Time
1	Josh Halcomb				Trinity					3/12/19					9:56					J. Butte			MS		3/13/19		956
2	J. Butte				MS					3/13/19					220					J. Butte			Xenco		3/13/19		1245
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 C.O.C. Serial #  
 FTS Service Centers: Atlanta 770-449-8800 Lakeland 863-646-8526 Tampa 803-543-8099 Philadelphia 610-955-5649 South Carolina 803-543-8099

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





## 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)563-1800

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. HNO<sub>3</sub>      F. MeOH      J. MCAA  
C. H<sub>2</sub>SO<sub>4</sub>      G. Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>      K. ZnAc&NaOH  
D. NaOH      H. NaHSO<sub>4</sub>      L. Asbc Acid&NaOH

### ^ 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

Company: Trinity Oilfield Services & Rentals, LLC	Phone: (575)390-7208
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Address: P.O. Box 2587	Fax:
------------------------	------

City: Hobbs	State: NM	Zip: 88241
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PM/Attn: Ben J. Arguijo	Email: wade.dittrich@oxy.com & ben@trinityoilfieldservices.com
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Project ID:	Mesa Verde BS Unit #8	PO#:
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Invoice To:	Oxy - Wade Ditttrich (575)390-2828	Quote #:
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Sampler Name:	Circle One Event: Daily Weekly Monthly
Josh Halcomb	Quarterly Semi-Annual Annual N/A

Sample #	Sample ID	Collect Date	Collect Time	Matrix Code ^	Field Filtered	Integrity OK (Y/N)	Total # of
1	SP-11	3/6/19	1332	S			1
2	SP-12	3/6/19	1334	S			1
3	SP-13	3/6/19	1340	S			1
4	SP-14	3/6/19	1343	S			1
5	SP-15	3/6/19	1345	S			1
6	SP-16	3/7/19	1054	S			1
7	SP-17	3/7/19	1057	S			1
8	SP-18	3/7/19	1101	S			1
9	SP-19	3/7/19	1103	S			1
0							

TAT Work Days = D    Need results by: \_\_\_\_\_ Time: \_\_\_\_\_

Std (5-7D) 5Hrs 1D 2D 3D 4D 5D 7D 10D 14D Other

## ANALYSES REQUESTED

[illegible]

Hold Sample	Run PAH	Only if
CALL	Run PAH	Only if
Highly TPA	Run PAH	Only if

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	FL	TX	GA	NC	SC	NJ	PA	OK	1	2	3	4	CLP	AFCEE	QAPP	ADaPT	SEDD	ERPIMS	Match	Incomplete	1-72	3	Non-Conformances found?					
Other:						LA	AL	NM	Other:					NELAC	DoD-ELAP	Other:				XLS	Other:		Absent	Unclear			Samples intact upon arrival?						
						Relinquished by			Affiliation			Date		Time		Received by			Affiliation		Date		Time		Received on Wet Ice?								
1						Josh Halcomb			Trinity			3/12/19		9:57		X Bottle			MS		3/10/19		95		Labeled with proper preservatives?								
2						X Bottle			MS			3/12/19		200		Bottle			Xenco		3/13/19		1345		Received within holding time?								
3																									Custody seals intact?								
4																									VOCs rec'd w/o headspace?								
																									Proper containers used?								
																									pH verified-acceptable, excl VOCs?								
																									Received on time to meet HTs?								

**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*

Revision Date: Nov 12, 2009

Final 1,000

Page 53 of 54

Released to Imaging: 12/14/2023 2:50:51 PM





Client: Trinity Oilfield Services &amp; Rentals, LLC

Date/ Time Received: 03/13/2019 12:45:00 PM

Work Order #: 617507

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

## Sample Receipt Checklist

## Comments

#1 *Temperature of cooler(s)?	1.2
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	N/A
#18 Water VOC samples have zero headspace?	N/A

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

Analyst:

PH Device/Lot#:

Checklist completed by:

Brianna Teel

Date: 03/13/2019

Checklist reviewed by:

Holly Taylor

Date: 03/15/2019



# Certificate of Analysis Summary 620782

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: Mesa Verde BS Unit #8



Project Id:

Contact: Ben Arguijo

Project Location:

Date Received in Lab: Thu Apr-11-19 11:15 am

Report Date: 23-APR-19

Project Manager: Holly Taylor

<i>Analysis Requested</i>	<i>Lab Id:</i>	620782-001	620782-002	620782-003	620782-004	620782-005	620782-006
	<i>Field Id:</i>	SP-1 @ 6"	SP-3 @ 6"	SP-5 @ 6"	SP-7 @ 6"	SP-9 @ 6"	SP-11 @ 6"
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Apr-09-19 09:58	Apr-09-19 09:49	Apr-09-19 09:47	Apr-09-19 09:43	Apr-09-19 09:30	Apr-09-19 09:25
<b>BTEX by EPA 8021B</b>	<i>Extracted:</i>	Apr-16-19 08:30	Apr-17-19 08:30	Apr-17-19 08:30	Apr-17-19 08:30	Apr-17-19 08:30	Apr-17-19 08:30
	<i>Analyzed:</i>	Apr-16-19 20:22	Apr-17-19 23:19	Apr-17-19 23:38	Apr-17-19 23:57	Apr-17-19 12:16	Apr-17-19 12:35
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00199 0.00199	<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202
Toluene		<0.00199 0.00199	0.00215 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202
Ethylbenzene		<0.00199 0.00199	0.00608 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202
m,p-Xylenes		<0.00398 0.00398	0.0494 0.00402	<0.00398 0.00398	<0.00400 0.00400	<0.00400 0.00400	<0.00404 0.00404
o-Xylene		<0.00199 0.00199	0.0409 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202
Total Xylenes		<0.00199 0.00199	0.0903 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202
Total BTEX		<0.00199 0.00199	0.0985 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202
<b>Chloride by EPA 300</b>	<i>Extracted:</i>	Apr-17-19 19:00	Apr-17-19 19:00	Apr-19-19 09:40	Apr-19-19 09:40	Apr-19-19 09:40	Apr-19-19 09:40
	<i>Analyzed:</i>	Apr-18-19 02:21	Apr-18-19 02:27	Apr-19-19 20:31	Apr-19-19 20:37	Apr-19-19 20:44	Apr-19-19 20:50
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		2020 24.8	279 5.00	121 4.98	76.6 4.98	237 5.01	68.4 5.01
<b>TPH By SW8015 Mod</b>	<i>Extracted:</i>	Apr-13-19 09:00	Apr-13-19 09:00	Apr-13-19 09:00	Apr-13-19 09:00	Apr-13-19 09:00	Apr-13-19 09:00
	<i>Analyzed:</i>	Apr-13-19 11:13	Apr-14-19 09:50	Apr-13-19 12:30	Apr-13-19 12:50	Apr-13-19 13:09	Apr-13-19 13:28
	<i>Units/RL:</i>	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	436 74.9	<14.9 14.9	<15.0 15.0	<15.0 15.0	<15.0 15.0
Diesel Range Organics (DRO)		124 15.0	5800 74.9	68.5 14.9	24.4 15.0	29.9 15.0	19.0 15.0
Motor Oil Range Hydrocarbons (MRO)		<15.0 15.0	925 74.9	17.5 14.9	<15.0 15.0	<15.0 15.0	<15.0 15.0
Total TPH		124 15.0	7160 74.9	86.0 14.9	24.4 15.0	29.9 15.0	19.0 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 - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Holly Taylor  
Project Manager



# Certificate of Analysis Summary 620782

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: Mesa Verde BS Unit #8



Project Id:

Contact: Ben Arguijo

Project Location:

Date Received in Lab: Thu Apr-11-19 11:15 am

Report Date: 23-APR-19

Project Manager: Holly Taylor

<i>Analysis Requested</i>	<i>Lab Id:</i>	620782-007	620782-008	620782-009	620782-010	620782-011	620782-012
	<i>Field Id:</i>	SP-12 @ 6"	SP-13 @ 6"	SP-15 @ 6"	SP-16 @ 6"	SP-17 @ 6"	SP-19 @ 6"
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Apr-09-19 08:52	Apr-09-19 08:56	Apr-09-19 10:09	Apr-09-19 11:00	Apr-09-19 10:45	Apr-09-19 10:30
<b>BTEX by EPA 8021B</b>	<i>Extracted:</i>	Apr-17-19 08:30	Apr-17-19 08:30	Apr-17-19 08:30	Apr-17-19 08:30	Apr-17-19 08:30	Apr-17-19 08:30
	<i>Analyzed:</i>	Apr-17-19 12:54	Apr-17-19 13:13	Apr-17-19 13:32	Apr-17-19 13:51	Apr-17-19 14:10	Apr-17-19 15:24
	<i>Units/RL:</i>	mg/kg 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	<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202
Toluene		<0.00198 0.00198	<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202
Ethylbenzene		<0.00198 0.00198	<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202
m,p-Xylenes		<0.00397 0.00397	<0.00402 0.00402	<0.00398 0.00398	<0.00401 0.00401	<0.00399 0.00399	<0.00403 0.00403
o-Xylene		<0.00198 0.00198	<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202
Total Xylenes		<0.00198 0.00198	<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202
Total BTEX		<0.00198 0.00198	<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202
<b>Chloride by EPA 300</b>	<i>Extracted:</i>	Apr-19-19 09:40	Apr-19-19 09:40	Apr-19-19 12:00	Apr-19-19 12:00	Apr-19-19 12:00	Apr-19-19 12:00
	<i>Analyzed:</i>	Apr-19-19 20:57	Apr-19-19 21:03	Apr-19-19 17:36	Apr-19-19 17:56	Apr-19-19 18:02	Apr-19-19 18:09
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		108 5.01	682 24.8	127 5.00	1200 25.2	206 4.99	1010 25.0
<b>TPH By SW8015 Mod</b>	<i>Extracted:</i>	Apr-13-19 09:00	Apr-13-19 09:00	Apr-13-19 09:00	Apr-13-19 09:00	Apr-13-19 09:00	Apr-13-19 09:00
	<i>Analyzed:</i>	Apr-13-19 13:47	Apr-13-19 14:07	Apr-13-19 14:26	Apr-13-19 14:46	Apr-13-19 15:45	Apr-13-19 16:04
	<i>Units/RL:</i>	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	<14.9 14.9	<14.9 14.9	<15.0 15.0	<15.0 15.0	<15.0 15.0
Diesel Range Organics (DRO)		218 15.0	217 14.9	1060 14.9	3230 15.0	59.6 15.0	706 15.0
Motor Oil Range Hydrocarbons (MRO)		32.8 15.0	17.1 14.9	17.9 14.9	1120 E 15.0	89.8 15.0	130 15.0
Total TPH		251 15.0	234 14.9	1080 14.9	4350 15.0	149 15.0	836 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 - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Holly Taylor  
Project Manager

# **Analytical Report 620782**

**for**

## **Trinity Oilfield Services & Rentals, LLC**

**Project Manager: Ben Arguijo**

**Mesa Verde BS Unit #8**

**23-APR-19**

Collected By: Client



**1211 W. Florida Ave**  
**Midland TX 79701**

Xenco-Houston (EPA Lab Code: TX00122):  
Texas (T104704215-18-28), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)  
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):  
Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)  
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-18)  
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)  
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)  
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)  
Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)  
Xenco-Atlanta (LELAP Lab ID #04176)  
Xenco-Tampa: Florida (E87429), North Carolina (483)  
Xenco-Lakeland: Florida (E84098)



23-APR-19

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

Reference: XENCO Report No(s): **620782**  
**Mesa Verde BS Unit #8**  
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) 620782. 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. 620782 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,

A handwritten signature in black ink that reads 'Holly Taylor'.

---

**Holly Taylor**  
Project Manager

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

*Certified and approved by numerous States and Agencies.*

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

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## Sample Cross Reference 620782

Trinity Oilfield Services &amp; Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SP-1 @ 6"	S	04-09-19 09:58		620782-001
SP-3 @ 6"	S	04-09-19 09:49		620782-002
SP-5 @ 6"	S	04-09-19 09:47		620782-003
SP-7 @ 6"	S	04-09-19 09:43		620782-004
SP-9 @ 6"	S	04-09-19 09:30		620782-005
SP-11 @ 6"	S	04-09-19 09:25		620782-006
SP-12 @ 6"	S	04-09-19 08:52		620782-007
SP-13 @ 6"	S	04-09-19 08:56		620782-008
SP-15 @ 6"	S	04-09-19 10:09		620782-009
SP-16 @ 6"	S	04-09-19 11:00		620782-010
SP-17 @ 6"	S	04-09-19 10:45		620782-011
SP-19 @ 6"	S	04-09-19 10:30		620782-012

**CASE NARRATIVE****Client Name: Trinity Oilfield Services & Rentals, LLC****Project Name: Mesa Verde BS Unit #8**Project ID:  
Work Order Number(s): 620782Report Date: 23-APR-19  
Date Received: 04/11/2019**Sample receipt non conformances and comments:**

Chloride Batch 3086469: MB of 1.39 mg/kg is acceptable as it is below the reporting limit of 5.00 mg/kg.

**Sample receipt non conformances and comments per sample:**

None

**Analytical non conformances and comments:**

Batch: LBA-3085698 TPH By SW8015 Mod

Surrogate o-Terphenyl recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 620782-002.

Batch: LBA-3085867 BTEX by EPA 8021B

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

Batch: LBA-3086132 BTEX by EPA 8021B

Toluene Relative Percent Difference (RPD) between matrix spike and duplicate was above quality control limits.

Samples in the analytical batch are: 620782-002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012  
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.Lab Sample ID 620782-002 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD).  
Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 620782-002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012.

The Laboratory Control Sample for Toluene, Benzene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3086451 Chloride by EPA 300

Lab Sample ID 621142-003 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD).  
Chloride recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 620782-009, -010, -011, -012.

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



# Certificate of Analytical Results 620782

## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

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

Matrix: Soil

Date Received: 04.11.19 11.15

Lab Sample Id: 620782-001

Date Collected: 04.09.19 09.58

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 04.17.19 19.00

Basis: Wet Weight

Seq Number: 3086191

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2020	24.8	mg/kg	04.18.19 02.21		5

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 04.13.19 09.00

Basis: Wet Weight

Seq Number: 3085698

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	04.13.19 11.13	U	1
<b>Diesel Range Organics (DRO)</b>	C10C28DRO	<b>124</b>	15.0	mg/kg	04.13.19 11.13		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	04.13.19 11.13	U	1
<b>Total TPH</b>	PHC635	<b>124</b>	15.0	mg/kg	04.13.19 11.13		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	04.13.19 11.13	
o-Terphenyl	84-15-1	103	%	70-135	04.13.19 11.13	



# Certificate of Analytical Results 620782



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

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

Matrix: Soil

Date Received: 04.11.19 11.15

Lab Sample Id: 620782-001

Date Collected: 04.09.19 09.58

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 04.16.19 08.30

Basis: Wet Weight

Seq Number: 3085867

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	04.16.19 20.22	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	04.16.19 20.22	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	04.16.19 20.22	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	04.16.19 20.22	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	04.16.19 20.22	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	04.16.19 20.22	U	1
Total BTEX		<0.00199	0.00199	mg/kg	04.16.19 20.22	U	1
Surrogate	Cas Number	% Recovery		Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	96	%	70-130	04.16.19 20.22		
1,4-Difluorobenzene	540-36-3	101	%	70-130	04.16.19 20.22		



# Certificate of Analytical Results 620782

## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

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

Matrix: Soil

Date Received: 04.11.19 11.15

Lab Sample Id: 620782-002

Date Collected: 04.09.19 09.49

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 04.17.19 19.00

Basis: Wet Weight

Seq Number: 3086191

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	279	5.00	mg/kg	04.18.19 02.27		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 04.13.19 09.00

Basis: Wet Weight

Seq Number: 3085698

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	436	74.9	mg/kg	04.14.19 09.50		5
Diesel Range Organics (DRO)	C10C28DRO	5800	74.9	mg/kg	04.14.19 09.50		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	925	74.9	mg/kg	04.14.19 09.50		5
Total TPH	PHC635	7160	74.9	mg/kg	04.14.19 09.50		5
Surrogate	Cas Number	% Recovery		Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	124	%	70-135	04.14.19 09.50		
o-Terphenyl	84-15-1	200	%	70-135	04.14.19 09.50	**	





# Certificate of Analytical Results 620782



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

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

Matrix: Soil

Date Received: 04.11.19 11.15

Lab Sample Id: 620782-002

Date Collected: 04.09.19 09.49

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 04.17.19 08.30

Basis: Wet Weight

Seq Number: 3086132

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	04.17.19 23.19	U	1
<b>Toluene</b>	108-88-3	<b>0.00215</b>	0.00201	mg/kg	04.17.19 23.19		1
<b>Ethylbenzene</b>	100-41-4	<b>0.00608</b>	0.00201	mg/kg	04.17.19 23.19		1
<b>m,p-Xylenes</b>	179601-23-1	<b>0.0494</b>	0.00402	mg/kg	04.17.19 23.19		1
<b>o-Xylene</b>	95-47-6	<b>0.0409</b>	0.00201	mg/kg	04.17.19 23.19		1
<b>Total Xylenes</b>	1330-20-7	<b>0.0903</b>	0.00201	mg/kg	04.17.19 23.19		1
<b>Total BTEX</b>		<b>0.0985</b>	0.00201	mg/kg	04.17.19 23.19		1
Surrogate	Cas Number	% Recovery		Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	122	%	70-130	04.17.19 23.19		
1,4-Difluorobenzene	540-36-3	99	%	70-130	04.17.19 23.19		



# Certificate of Analytical Results 620782



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

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

Matrix: Soil

Date Received: 04.11.19 11.15

Lab Sample Id: 620782-003

Date Collected: 04.09.19 09.47

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 04.19.19 09.40

Basis: Wet Weight

Seq Number: 3086469

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	121	4.98	mg/kg	04.19.19 20.31		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 04.13.19 09.00

Basis: Wet Weight

Seq Number: 3085698

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	04.13.19 12.30	U	1
Diesel Range Organics (DRO)	C10C28DRO	68.5	14.9	mg/kg	04.13.19 12.30		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	17.5	14.9	mg/kg	04.13.19 12.30		1
Total TPH	PHC635	86.0	14.9	mg/kg	04.13.19 12.30		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-135	04.13.19 12.30	
o-Terphenyl	84-15-1	91	%	70-135	04.13.19 12.30	



# Certificate of Analytical Results 620782

## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

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

Matrix: Soil

Date Received: 04.11.19 11.15

Lab Sample Id: 620782-003

Date Collected: 04.09.19 09.47

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 04.17.19 08.30

Basis: Wet Weight

Seq Number: 3086132

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	04.17.19 23.38	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	04.17.19 23.38	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	04.17.19 23.38	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	04.17.19 23.38	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	04.17.19 23.38	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	04.17.19 23.38	U	1
Total BTEX		<0.00199	0.00199	mg/kg	04.17.19 23.38	U	1
		<b>% Recovery</b>					
<b>Surrogate</b>	<b>Cas Number</b>			<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>
4-Bromofluorobenzene	460-00-4		96	%	70-130	04.17.19 23.38	
1,4-Difluorobenzene	540-36-3		99	%	70-130	04.17.19 23.38	



# Certificate of Analytical Results 620782

## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

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

Matrix: Soil

Date Received: 04.11.19 11.15

Lab Sample Id: 620782-004

Date Collected: 04.09.19 09.43

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 04.19.19 09.40

Basis: Wet Weight

Seq Number: 3086469

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	76.6	4.98	mg/kg	04.19.19 20.37		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 04.13.19 09.00

Basis: Wet Weight

Seq Number: 3085698

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	04.13.19 12.50	U	1
Diesel Range Organics (DRO)	C10C28DRO	24.4	15.0	mg/kg	04.13.19 12.50		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	04.13.19 12.50	U	1
Total TPH	PHC635	24.4	15.0	mg/kg	04.13.19 12.50		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-135	04.13.19 12.50	
o-Terphenyl	84-15-1	94	%	70-135	04.13.19 12.50	



# Certificate of Analytical Results 620782



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

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

Matrix: Soil

Date Received: 04.11.19 11.15

Lab Sample Id: 620782-004

Date Collected: 04.09.19 09.43

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 04.17.19 08.30

Basis: Wet Weight

Seq Number: 3086132

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.17.19 23.57	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	04.17.19 23.57	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.17.19 23.57	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	04.17.19 23.57	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.17.19 23.57	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.17.19 23.57	U	1
Total BTEX		<0.00200	0.00200	mg/kg	04.17.19 23.57	U	1
Surrogate	Cas Number	% Recovery		Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	101		%	70-130	04.17.19 23.57	
4-Bromofluorobenzene	460-00-4	98		%	70-130	04.17.19 23.57	





# Certificate of Analytical Results 620782



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

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

Matrix: Soil

Date Received: 04.11.19 11.15

Lab Sample Id: 620782-005

Date Collected: 04.09.19 09.30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 04.19.19 09.40

Basis: Wet Weight

Seq Number: 3086469

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	237	5.01	mg/kg	04.19.19 20.44		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 04.13.19 09.00

Basis: Wet Weight

Seq Number: 3085698

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	04.13.19 13.09	U	1
Diesel Range Organics (DRO)	C10C28DRO	29.9	15.0	mg/kg	04.13.19 13.09		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	04.13.19 13.09	U	1
Total TPH	PHC635	29.9	15.0	mg/kg	04.13.19 13.09		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-135	04.13.19 13.09	
o-Terphenyl	84-15-1	96	%	70-135	04.13.19 13.09	



# Certificate of Analytical Results 620782



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

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

Matrix: Soil

Date Received: 04.11.19 11.15

Lab Sample Id: 620782-005

Date Collected: 04.09.19 09.30

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 04.17.19 08.30

Basis: Wet Weight

Seq Number: 3086132

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.17.19 12.16	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	04.17.19 12.16	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.17.19 12.16	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	04.17.19 12.16	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.17.19 12.16	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.17.19 12.16	U	1
Total BTEX		<0.00200	0.00200	mg/kg	04.17.19 12.16	U	1
Surrogate	Cas Number	% Recovery		Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102		%	70-130	04.17.19 12.16	
4-Bromofluorobenzene	460-00-4	99		%	70-130	04.17.19 12.16	



# Certificate of Analytical Results 620782



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

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

Matrix: Soil

Date Received: 04.11.19 11.15

Lab Sample Id: 620782-006

Date Collected: 04.09.19 09.25

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 04.19.19 09.40

Basis: Wet Weight

Seq Number: 3086469

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	68.4	5.01	mg/kg	04.19.19 20.50		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 04.13.19 09.00

Basis: Wet Weight

Seq Number: 3085698

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	04.13.19 13.28	U	1
Diesel Range Organics (DRO)	C10C28DRO	19.0	15.0	mg/kg	04.13.19 13.28		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	04.13.19 13.28	U	1
Total TPH	PHC635	19.0	15.0	mg/kg	04.13.19 13.28		1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
1-Chlorooctane	111-85-3	100	%	70-135	04.13.19 13.28		
o-Terphenyl	84-15-1	101	%	70-135	04.13.19 13.28		



# Certificate of Analytical Results 620782



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

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

Matrix: Soil

Date Received: 04.11.19 11.15

Lab Sample Id: 620782-006

Date Collected: 04.09.19 09.25

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 04.17.19 08.30

Basis: Wet Weight

Seq Number: 3086132

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	04.17.19 12.35	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	04.17.19 12.35	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	04.17.19 12.35	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	04.17.19 12.35	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	04.17.19 12.35	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	04.17.19 12.35	U	1
Total BTEX		<0.00202	0.00202	mg/kg	04.17.19 12.35	U	1
Surrogate	Cas Number	% Recovery		Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	97		%	70-130	04.17.19 12.35	
1,4-Difluorobenzene	540-36-3	101		%	70-130	04.17.19 12.35	



# Certificate of Analytical Results 620782



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

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

Matrix: Soil

Date Received: 04.11.19 11.15

Lab Sample Id: 620782-007

Date Collected: 04.09.19 08.52

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 04.19.19 09.40

Basis: Wet Weight

Seq Number: 3086469

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	108	5.01	mg/kg	04.19.19 20.57		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 04.13.19 09.00

Basis: Wet Weight

Seq Number: 3085698

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	04.13.19 13.47	U	1
Diesel Range Organics (DRO)	C10C28DRO	218	15.0	mg/kg	04.13.19 13.47		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	32.8	15.0	mg/kg	04.13.19 13.47		1
Total TPH	PHC635	251	15.0	mg/kg	04.13.19 13.47		1
Surrogate	Cas Number	% Recovery		Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100		%	70-135	04.13.19 13.47	
o-Terphenyl	84-15-1	110		%	70-135	04.13.19 13.47	





# Certificate of Analytical Results 620782



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

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

Matrix: Soil

Date Received: 04.11.19 11.15

Lab Sample Id: 620782-007

Date Collected: 04.09.19 08.52

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 04.17.19 08.30

Basis: Wet Weight

Seq Number: 3086132

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	04.17.19 12.54	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	04.17.19 12.54	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	04.17.19 12.54	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	04.17.19 12.54	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	04.17.19 12.54	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	04.17.19 12.54	U	1
Total BTEX		<0.00198	0.00198	mg/kg	04.17.19 12.54	U	1
Surrogate	Cas Number	% Recovery		Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102		%	70-130	04.17.19 12.54	
4-Bromofluorobenzene	460-00-4	97		%	70-130	04.17.19 12.54	



# Certificate of Analytical Results 620782



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

Sample Id: **SP-13 @ 6"**

Matrix: Soil

Date Received: 04.11.19 11.15

Lab Sample Id: 620782-008

Date Collected: 04.09.19 08.56

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 04.19.19 09.40

Basis: Wet Weight

Seq Number: 3086469

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	682	24.8	mg/kg	04.19.19 21.03		5

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 04.13.19 09.00

Basis: Wet Weight

Seq Number: 3085698

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	04.13.19 14.07	U	1
Diesel Range Organics (DRO)	C10C28DRO	217	14.9	mg/kg	04.13.19 14.07		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	17.1	14.9	mg/kg	04.13.19 14.07		1
Total TPH	PHC635	234	14.9	mg/kg	04.13.19 14.07		1
Surrogate	Cas Number	% Recovery		Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95		%	70-135	04.13.19 14.07	
o-Terphenyl	84-15-1	110		%	70-135	04.13.19 14.07	



# Certificate of Analytical Results 620782



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

Sample Id: **SP-13 @ 6"**

Matrix: Soil

Date Received: 04.11.19 11.15

Lab Sample Id: 620782-008

Date Collected: 04.09.19 08.56

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 04.17.19 08.30

Basis: Wet Weight

Seq Number: 3086132

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	04.17.19 13.13	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	04.17.19 13.13	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	04.17.19 13.13	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	04.17.19 13.13	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	04.17.19 13.13	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	04.17.19 13.13	U	1
Total BTEX		<0.00201	0.00201	mg/kg	04.17.19 13.13	U	1
Surrogate	Cas Number	% Recovery		Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	98		%	70-130	04.17.19 13.13	
1,4-Difluorobenzene	540-36-3	102		%	70-130	04.17.19 13.13	



# Certificate of Analytical Results 620782



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

Sample Id: **SP-15 @ 6"**

Matrix: Soil

Date Received: 04.11.19 11.15

Lab Sample Id: 620782-009

Date Collected: 04.09.19 10.09

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 04.19.19 12.00

Basis: Wet Weight

Seq Number: 3086451

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	127	5.00	mg/kg	04.19.19 17.36		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 04.13.19 09.00

Basis: Wet Weight

Seq Number: 3085698

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	04.13.19 14.26	U	1
Diesel Range Organics (DRO)	C10C28DRO	1060	14.9	mg/kg	04.13.19 14.26		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	17.9	14.9	mg/kg	04.13.19 14.26		1
Total TPH	PHC635	1080	14.9	mg/kg	04.13.19 14.26		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	04.13.19 14.26	
o-Terphenyl	84-15-1	123	%	70-135	04.13.19 14.26	



# Certificate of Analytical Results 620782



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

Sample Id: **SP-15 @ 6"**

Matrix: Soil

Date Received: 04.11.19 11.15

Lab Sample Id: 620782-009

Date Collected: 04.09.19 10.09

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 04.17.19 08.30

Basis: Wet Weight

Seq Number: 3086132

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	04.17.19 13.32	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	04.17.19 13.32	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	04.17.19 13.32	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	04.17.19 13.32	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	04.17.19 13.32	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	04.17.19 13.32	U	1
Total BTEX		<0.00199	0.00199	mg/kg	04.17.19 13.32	U	1
Surrogate	Cas Number	% Recovery		Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	99	%	70-130	04.17.19 13.32		
4-Bromofluorobenzene	460-00-4	93	%	70-130	04.17.19 13.32		



# Certificate of Analytical Results 620782



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

Sample Id: **SP-16 @ 6"**

Matrix: Soil

Date Received: 04.11.19 11.15

Lab Sample Id: 620782-010

Date Collected: 04.09.19 11.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 04.19.19 12.00

Basis: Wet Weight

Seq Number: 3086451

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1200	25.2	mg/kg	04.19.19 17.56		5

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 04.13.19 09.00

Basis: Wet Weight

Seq Number: 3085698

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	04.13.19 14.46	U	1
Diesel Range Organics (DRO)	C10C28DRO	3230	15.0	mg/kg	04.13.19 14.46		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	1120	15.0	mg/kg	04.13.19 14.46	E	1
Total TPH	PHC635	4350	15.0	mg/kg	04.13.19 14.46		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	04.13.19 14.46	
o-Terphenyl	84-15-1	127	%	70-135	04.13.19 14.46	





# Certificate of Analytical Results 620782



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

Sample Id: **SP-16 @ 6"**

Matrix: Soil

Date Received: 04.11.19 11.15

Lab Sample Id: 620782-010

Date Collected: 04.09.19 11.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 04.17.19 08.30

Basis: Wet Weight

Seq Number: 3086132

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.17.19 13.51	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	04.17.19 13.51	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.17.19 13.51	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	04.17.19 13.51	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.17.19 13.51	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.17.19 13.51	U	1
Total BTEX		<0.00200	0.00200	mg/kg	04.17.19 13.51	U	1
Surrogate	Cas Number	% Recovery		Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	105		%	70-130	04.17.19 13.51	
1,4-Difluorobenzene	540-36-3	105		%	70-130	04.17.19 13.51	



# Certificate of Analytical Results 620782



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

Sample Id: **SP-17 @ 6"**

Matrix: Soil

Date Received: 04.11.19 11.15

Lab Sample Id: 620782-011

Date Collected: 04.09.19 10.45

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 04.19.19 12.00

Basis: Wet Weight

Seq Number: 3086451

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	206	4.99	mg/kg	04.19.19 18.02		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 04.13.19 09.00

Basis: Wet Weight

Seq Number: 3085698

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	04.13.19 15.45	U	1
Diesel Range Organics (DRO)	C10C28DRO	59.6	15.0	mg/kg	04.13.19 15.45		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	89.8	15.0	mg/kg	04.13.19 15.45		1
Total TPH	PHC635	149	15.0	mg/kg	04.13.19 15.45		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-135	04.13.19 15.45	
o-Terphenyl	84-15-1	91	%	70-135	04.13.19 15.45	



# Certificate of Analytical Results 620782

## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

Sample Id: **SP-17 @ 6"**

Matrix: Soil

Date Received: 04.11.19 11.15

Lab Sample Id: 620782-011

Date Collected: 04.09.19 10.45

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 04.17.19 08.30

Basis: Wet Weight

Seq Number: 3086132

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.17.19 14.10	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	04.17.19 14.10	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.17.19 14.10	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	04.17.19 14.10	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.17.19 14.10	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.17.19 14.10	U	1
Total BTEX		<0.00200	0.00200	mg/kg	04.17.19 14.10	U	1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
4-Bromofluorobenzene	460-00-4	102	%	70-130	04.17.19 14.10		
1,4-Difluorobenzene	540-36-3	102	%	70-130	04.17.19 14.10		



# Certificate of Analytical Results 620782



## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

Sample Id: **SP-19 @ 6"**

Matrix: Soil

Date Received: 04.11.19 11.15

Lab Sample Id: 620782-012

Date Collected: 04.09.19 10.30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 04.19.19 12.00

Basis: Wet Weight

Seq Number: 3086451

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1010	25.0	mg/kg	04.19.19 18.09		5

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 04.13.19 09.00

Basis: Wet Weight

Seq Number: 3085698

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	04.13.19 16.04	U	1
Diesel Range Organics (DRO)	C10C28DRO	706	15.0	mg/kg	04.13.19 16.04		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	130	15.0	mg/kg	04.13.19 16.04		1
Total TPH	PHC635	836	15.0	mg/kg	04.13.19 16.04		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-135	04.13.19 16.04	
o-Terphenyl	84-15-1	116	%	70-135	04.13.19 16.04	



# Certificate of Analytical Results 620782

## Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Mesa Verde BS Unit #8

Sample Id: **SP-19 @ 6"**

Matrix: Soil

Date Received: 04.11.19 11.15

Lab Sample Id: 620782-012

Date Collected: 04.09.19 10.30

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 04.17.19 08.30

Basis: Wet Weight

Seq Number: 3086132

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	04.17.19 15.24	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	04.17.19 15.24	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	04.17.19 15.24	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	04.17.19 15.24	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	04.17.19 15.24	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	04.17.19 15.24	U	1
Total BTEX		<0.00202	0.00202	mg/kg	04.17.19 15.24	U	1
Surrogate	Cas Number	% Recovery		Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100		%	70-130	04.17.19 15.24	
4-Bromofluorobenzene	460-00-4	92		%	70-130	04.17.19 15.24	



## Flagging Criteria



- 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

**SMP** Client Sample      **BLK** Method Blank

**BKS/LCS** Blank Spike/Laboratory Control Sample      **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

**MD/SD** Method Duplicate/Sample Duplicate      **MS** Matrix Spike      **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

\* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation





## Trinity Oilfield Services &amp; Rentals, LLC

Mesa Verde BS Unit #8

## Analytical Method: Chloride by EPA 300

Seq Number: 3086191

MB Sample Id: 7676024-1-BLK

Matrix: Solid

LCS Sample Id: 7676024-1-BKS

Prep Method: E300P

Date Prep: 04.17.19

LCSD Sample Id: 7676024-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.858	250	249	100	252	101	90-110	1	20	mg/kg	04.17.19 23:20	

## Analytical Method: Chloride by EPA 300

Seq Number: 3086469

MB Sample Id: 7676193-1-BLK

Matrix: Solid

LCS Sample Id: 7676193-1-BKS

Prep Method: E300P

Date Prep: 04.19.19

LCSD Sample Id: 7676193-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1.39	250	254	102	253	101	90-110	0	20	mg/kg	04.19.19 17:56	

## Analytical Method: Chloride by EPA 300

Seq Number: 3086451

MB Sample Id: 7676196-1-BLK

Matrix: Solid

LCS Sample Id: 7676196-1-BKS

Prep Method: E300P

Date Prep: 04.19.19

LCSD Sample Id: 7676196-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.858	250	272	109	269	108	90-110	1	20	mg/kg	04.19.19 17:23	

## Analytical Method: Chloride by EPA 300

Seq Number: 3086191

Parent Sample Id: 620782-002

Matrix: Soil

MS Sample Id: 620782-002 S

Prep Method: E300P

Date Prep: 04.17.19

MSD Sample Id: 620782-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	279	250	514	94	507	91	90-110	1	20	mg/kg	04.18.19 17:07	

## Analytical Method: Chloride by EPA 300

Seq Number: 3086191

Parent Sample Id: 620948-004

Matrix: Soil

MS Sample Id: 620948-004 S

Prep Method: E300P

Date Prep: 04.17.19

MSD Sample Id: 620948-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	2.16	252	254	100	258	102	90-110	2	20	mg/kg	04.17.19 23:40	

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

$[D] = 100 * (C-A) / B$   
 $RPD = 200 * |(C-E) / (C+E)|$   
 $[D] = 100 * (C) / [B]$   
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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 &amp; Rentals, LLC

Mesa Verde BS Unit #8

## Analytical Method: Chloride by EPA 300

Seq Number: 3086469

Parent Sample Id: 621004-003

Matrix: Soil

MS Sample Id: 621004-003 S

Prep Method: E300P

Date Prep: 04.19.19

MSD Sample Id: 621004-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	19.3	250	196	71	269	100	90-110	31	20	mg/kg	04.19.19 18:16	XF

## Analytical Method: Chloride by EPA 300

Seq Number: 3086469

Parent Sample Id: 621045-001

Matrix: Soil

MS Sample Id: 621045-001 S

Prep Method: E300P

Date Prep: 04.19.19

MSD Sample Id: 621045-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	178	248	256	31	366	76	90-110	35	20	mg/kg	04.22.19 11:04	XF

## Analytical Method: Chloride by EPA 300

Seq Number: 3086451

Parent Sample Id: 620782-009

Matrix: Soil

MS Sample Id: 620782-009 S

Prep Method: E300P

Date Prep: 04.19.19

MSD Sample Id: 620782-009 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	127	250	339	85	334	83	90-110	1	20	mg/kg	04.19.19 17:43	X

## Analytical Method: Chloride by EPA 300

Seq Number: 3086451

Parent Sample Id: 621142-003

Matrix: Soil

MS Sample Id: 621142-003 S

Prep Method: E300P

Date Prep: 04.19.19

MSD Sample Id: 621142-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	6.85	250	279	109	260	101	90-110	7	20	mg/kg	04.19.19 19:14	

## Analytical Method: TPH By SW8015 Mod

Seq Number: 3085698

MB Sample Id: 7675750-1-BLK

Matrix: Solid

LCS Sample Id: 7675750-1-BKS

Prep Method: TX1005P

Date Prep: 04.13.19

LCSD Sample Id: 7675750-1-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)	<8.00	1000	928	93	966	97	70-135	4	20	mg/kg	04.13.19 10:34	
Diesel Range Organics (DRO)	<8.13	1000	965	97	987	99	70-135	2	20	mg/kg	04.13.19 10:34	

## Surrogate

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	106		123		124		70-135	%	04.13.19 10:34
o-Terphenyl	107		120		119		70-135	%	04.13.19 10:34

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

$[D] = 100 * (C-A) / B$   
 $RPD = 200 * |(C-E) / (C+E)|$   
 $[D] = 100 * (C) / [B]$   
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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 &amp; Rentals, LLC

Mesa Verde BS Unit #8

Analytical Method: TPH By SW8015 Mod

Seq Number: 3085698

Parent Sample Id: 620782-001

Matrix: Soil

MS Sample Id: 620782-001 S

Prep Method: TX1005P

Date Prep: 04.13.19

MSD Sample Id: 620782-001 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)	<7.99	999	1010	101	1040	104	70-135	3	20	mg/kg	04.13.19 11:32	
Diesel Range Organics (DRO)	124	999	1220	110	1240	112	70-135	2	20	mg/kg	04.13.19 11:32	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	124		128		70-135	%	04.13.19 11:32
o-Terphenyl	116		119		70-135	%	04.13.19 11:32

Analytical Method: BTEX by EPA 8021B

Seq Number: 3085867

MB Sample Id: 7675871-1-BLK

Matrix: Solid

LCS Sample Id: 7675871-1-BKS

Prep Method: SW5030B

Date Prep: 04.16.19

LCSD Sample Id: 7675871-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000387	0.101	0.0990	98	0.0994	100	70-130	0	35	mg/kg	04.16.19 08:57	
Toluene	<0.000458	0.101	0.0996	99	0.100	100	70-130	0	35	mg/kg	04.16.19 08:57	
Ethylbenzene	<0.000568	0.101	0.0914	90	0.0918	92	70-130	0	35	mg/kg	04.16.19 08:57	
m,p-Xylenes	<0.00102	0.201	0.182	91	0.182	91	70-130	0	35	mg/kg	04.16.19 08:57	
o-Xylene	<0.000346	0.101	0.0919	91	0.0921	92	70-130	0	35	mg/kg	04.16.19 08:57	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	90		100		101		70-130	%	04.16.19 08:57
4-Bromofluorobenzene	82		95		96		70-130	%	04.16.19 08:57

Analytical Method: BTEX by EPA 8021B

Seq Number: 3086132

MB Sample Id: 7676055-1-BLK

Matrix: Solid

LCS Sample Id: 7676055-1-BKS

Prep Method: SW5030B

Date Prep: 04.17.19

LCSD Sample Id: 7676055-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000383	0.0994	0.0929	93	0.0939	94	70-130	1	35	mg/kg	04.17.19 09:27	
Toluene	<0.000453	0.0994	0.0930	94	0.0943	94	70-130	1	35	mg/kg	04.17.19 09:27	
Ethylbenzene	<0.000561	0.0994	0.0858	86	0.0868	87	70-130	1	35	mg/kg	04.17.19 09:27	
m,p-Xylenes	<0.00101	0.199	0.169	85	0.172	86	70-130	2	35	mg/kg	04.17.19 09:27	
o-Xylene	<0.000342	0.0994	0.0856	86	0.0871	87	70-130	2	35	mg/kg	04.17.19 09:27	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	92		100		100		70-130	%	04.17.19 09:27
4-Bromofluorobenzene	86		95		94		70-130	%	04.17.19 09:27

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

[D] = 100\*(C-A) / B  
RPD = 200\* |(C-E) / (C+E)|  
[D] = 100 \* (C) / [B]  
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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**  
Mesa Verde BS Unit #8

**Analytical Method: BTEX by EPA 8021B**

Seq Number: 3085867

Parent Sample Id: 621040-001

Matrix: Soil

MS Sample Id: 621040-001 S

Prep Method: SW5030B

Date Prep: 04.16.19

MSD Sample Id: 621040-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000383	0.0994	0.0887	89	0.0929	93	70-130	5	35	mg/kg	04.16.19 09:35	
Toluene	<0.000453	0.0994	0.0894	90	0.0929	93	70-130	4	35	mg/kg	04.16.19 09:35	
Ethylbenzene	<0.000561	0.0994	0.0827	83	0.0842	84	70-130	2	35	mg/kg	04.16.19 09:35	
m,p-Xylenes	<0.00101	0.199	0.163	82	0.167	84	70-130	2	35	mg/kg	04.16.19 09:35	
o-Xylene	<0.000342	0.0994	0.0831	84	0.0850	85	70-130	2	35	mg/kg	04.16.19 09:35	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		102		70-130	%	04.16.19 09:35
4-Bromofluorobenzene	97		102		70-130	%	04.16.19 09:35

**Analytical Method: BTEX by EPA 8021B**

Seq Number: 3086132

Parent Sample Id: 620782-002

Matrix: Soil

MS Sample Id: 620782-002 S

Prep Method: SW5030B

Date Prep: 04.17.19

MSD Sample Id: 620782-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000384	0.0998	0.0658	66	0.0470	47	70-130	33	35	mg/kg	04.17.19 22:05	X
Toluene	0.00215	0.0998	0.0531	51	0.0364	34	70-130	37	35	mg/kg	04.17.19 22:05	XF
Ethylbenzene	0.00608	0.0998	0.0434	37	0.0311	25	70-130	33	35	mg/kg	04.17.19 22:05	X
m,p-Xylenes	0.0494	0.200	0.115	33	0.0956	23	70-130	18	35	mg/kg	04.17.19 22:05	X
o-Xylene	0.0409	0.0998	0.0732	32	0.0643	23	70-130	13	35	mg/kg	04.17.19 22:05	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		105		70-130	%	04.17.19 22:05
4-Bromofluorobenzene	126		126		70-130	%	04.17.19 22:05

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

$[D] = 100 * (C - A) / B$   
 $RPD = 200 * |(C - E) / (C + E)|$   
 $[D] = 100 * (C) / [B]$   
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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





Houston: 4143 Greenbriar Dr. Stafford, TX 77477 (281)240-4200 Odessa: 12600 West I-20 East Odessa, TX 79765 (432)563-1800  
 10000-c

## CHAIN OF CUSTODY RECORD

Page 1 of 2

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. HNO<sub>3</sub>      F. MeOH      J. MCAA  
C. H<sub>2</sub>SO<sub>4</sub>      G. Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>      K. ZnAc&NaOH  
D. NaOH      H. NaHSO<sub>4</sub>      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

Company: Trinity Oilfield Services & Rentals, LLC				Phone: (575)390-7208				TAT Work Days = D Need results by: _____ Time: _____												Field Disable Hrs: _____											
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, 40ml, 125 ml, 250 ml, 500 ml, 1L, Other _____											
City: Hobbs				State: NM		Zip: 88241		ANALYSES REQUESTED												** Preservative Type Codes											
PM/Attn: Ben J. Arguijo				Email: wade.dittrich@oxy.com & ben@trinityoilfieldservices.com				Cont Type * VC		GC		GC		GC												A. None E. HCL I. Ice B. HNO <sub>3</sub> F. MeOH J. MCAA C. H <sub>2</sub> SO <sub>4</sub> G. Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> K. ZnAc&NaOH D. NaOH H. NaHSO <sub>4</sub> L. Asbc Acid&NaOH O. _____					
Project ID: Mesa Verde BS Unit #8				PO#: _____				Pres Type**		I		I		I																	
Invoice To: Oxy - Wade Dittrich (575)390-2828				Quote #: _____				Example Volatiles by 8260		TPH 8015M		BTEX		Chloride																	
Sampler Name: Daniel Rasler				Circle One Event: Daily Weekly Monthly Quarterly Semi-Annual Annual N/A																											
Sample #		Sample ID		Collect Date		Collect Time		Matrix Code ^		Field Filtered		Integrity OK (Y/N)		Total # of containers		# Cont		Lab Only:										Hold Sample (CALL on Highest TPH) Only if _____			
1		SP-1 @ 6"		4/9/19		0958		S						1				X X X													
2		SP-3 @ 6"		4/9/19		0949		S						1				X X X													
3		SP-5 @ 6"		4/9/19		0947		S						1				X X X													
4		SP-7 @ 6"		4/9/19		0943		S						1				X X X													
5		SP-9 @ 6"		4/9/19		0930		S						1				X X X													
6		SP-11 @ 6"		4/9/19		0925		S						1				X X X													
7		SP-12 @ 6"		4/9/19		0852		S						1				X X X													
8		SP-13 @ 6"		4/9/19		0856		S						1				X X X													
9		SP-15 @ 6"		4/9/19		1009		S						1				X X X													
0		SP-16 @ 6"		4/9/19		1100		S						1				X X X													
Reg. Program / Clean-up Std				STATE for Certs & Regs				QA/QC Level & Certification				EDDs				CQC & 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				Non-Conformances found? _____ Samples intact upon arrival? _____ Received on Wet Ice? _____ Labeled with proper preservatives? _____ Received within holding time? _____ Custody seals intact? _____ VOCs rec'd w/o headspace? _____ Proper containers used? _____ pH verified-acceptable, excl VOCs? _____ Received on time to meet HTs? _____							
Relinquished by				Affiliation				Date				Time				Received by				Affiliation				Date				Time			
1 Daniel Rasler				Trinity				04/10/19				8:51				J Butte				MS				4/10/19 8:51							
2 J Butte				MS				4/10/19				1000				J Butte				MS				4/11/19 1115							
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

C.O.C. Serial #

**FTS Service Centers:** Atlanta 770-449-8800 Lakeland 863-646-8526 Tampa 803-543-8099 Philadelphia 610-955-5649 South Carolina 803-543-8099

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

Revision Date: Nov 12, 2009

Final 1,000

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Released to Imaging: 12/14/2023 2:50:51 PM

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Received by OCD: 12/11/2023 12:16:33 PM  
Released to Imaging: 12/14/2023 2:50:51 PM



# CHAIN OF CUSTODY RECORD

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

Page 2 of 2

LAB W.O #:

Field billable Hrs :

020782

## \* 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  
40ml, 125 ml, 250 ml, 500 ml, 1L, Other

## \*\* Preservative Type Codes

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

## ^ 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

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:	Mesa Verde BS Unit #8	PO#:	
Invoice To:	Oxy - Wade Dittrich (575)390-2828	Quote #:	

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

Sample #	Sample ID	Collect Date	Collect Time	Matrix Code ^	Field Filtered	Integrity OK (Y/N)	Total # of Containers
1	SP-17 @ 6"	4/9/19	1045	S			1
2	SP-19 @ 6"	4/9/19	1030	S			1
3							
4							
5							
6							
7							
8							
9							
0							

Reg. Program / Clean-up Std	STATE for Certs & Regs	QA/QC Level & Certification	EDDs	COC & Labels	Coolers Temp °C
CTLs TRRP DW NPDES LPST DryCln	FL TX GA NC SC NJ PA OK	1 2 3 4 CLP AFCEE QAPP	ADaPT SEDD ERPIMS	Match Incomplete	1 2 3
Other:	LA AL NM Other:	NELAC DoD-ELAP Other:	XLS Other:	Absent Unclear	

Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time
1 Daniel Rasler	Trinity	04/10/19	8:51	KB	MS	4/10/19	8:51
2 KB	MS	4/10/19	1000	Bar	Xenco	4/10/19	1115
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

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  
Page 37 of 39







Client: Trinity Oilfield Services &amp; Rentals, LLC

Date/ Time Received: 04/11/2019 11:15:00 AM

Work Order #: 620782

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)?	1.9
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	N/A
#18 Water VOC samples have zero headspace?	N/A

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

Analyst:

PH Device/Lot#:

Checklist completed by:

Brianna Teel

Date: 04/11/2019

Checklist reviewed by:

Holly Taylor

Date: 04/12/2019



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

November 22, 2023

DAN DUNKELBERG

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587

HOBBS, NM 88241

RE: MESA VERDE BS UNIT #8

Enclosed are the results of analyses for samples received by the laboratory on 11/20/23 16:33.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	11/20/2023	Sampling Date:	11/15/2023
Reported:	11/22/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: DH-001-01.0-HS-S (H236324-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/21/2023	ND	1.98	98.9	2.00	0.340	
Toluene*	<0.050	0.050	11/21/2023	ND	2.07	103	2.00	0.873	
Ethylbenzene*	<0.050	0.050	11/21/2023	ND	2.08	104	2.00	0.856	
Total Xylenes*	<0.150	0.150	11/21/2023	ND	6.26	104	6.00	1.04	
Total BTEX	<0.300	0.300	11/21/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/21/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/21/2023	ND	198	99.1	200	1.23	
DRO >C10-C28*	<10.0	10.0	11/21/2023	ND	217	109	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	11/21/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	11/20/2023	Sampling Date:	11/15/2023
Reported:	11/22/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: DH-002-01.0-HE-S (H236324-02)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/21/2023	ND	1.98	98.9	2.00	0.340		
Toluene*	<0.050	0.050	11/21/2023	ND	2.07	103	2.00	0.873		
Ethylbenzene*	<0.050	0.050	11/21/2023	ND	2.08	104	2.00	0.856		
Total Xylenes*	<0.150	0.150	11/21/2023	ND	6.26	104	6.00	1.04		
Total BTEX	<0.300	0.300	11/21/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	11/21/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/21/2023	ND	198	99.1	200	1.23	
DRO >C10-C28*	<10.0	10.0	11/21/2023	ND	217	109	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	11/21/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	11/20/2023	Sampling Date:	11/15/2023
Reported:	11/22/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: DH-003-01.0-HN-S (H236324-03)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/21/2023	ND	1.98	98.9	2.00	0.340		
Toluene*	<0.050	0.050	11/21/2023	ND	2.07	103	2.00	0.873		
Ethylbenzene*	<0.050	0.050	11/21/2023	ND	2.08	104	2.00	0.856		
Total Xylenes*	<0.150	0.150	11/21/2023	ND	6.26	104	6.00	1.04		
Total BTEX	<0.300	0.300	11/21/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/21/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/21/2023	ND	198	99.1	200	1.23	
DRO >C10-C28*	<10.0	10.0	11/21/2023	ND	217	109	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	11/21/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	11/20/2023	Sampling Date:	11/15/2023
Reported:	11/22/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: DH-004-01.0-HW-S (H236324-04)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/21/2023	ND	1.98	98.9	2.00	0.340		
Toluene*	<0.050	0.050	11/21/2023	ND	2.07	103	2.00	0.873		
Ethylbenzene*	<0.050	0.050	11/21/2023	ND	2.08	104	2.00	0.856		
Total Xylenes*	<0.150	0.150	11/21/2023	ND	6.26	104	6.00	1.04		
Total BTEX	<0.300	0.300	11/21/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	11/21/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/21/2023	ND	216	108	200	1.91	
DRO >C10-C28*	<10.0	10.0	11/21/2023	ND	222	111	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	11/21/2023	ND					

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



---

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### Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Page 7 of 7



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

April 05, 2023

DAN DUNKELBERG

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587

HOBBS, NM 88241

RE: MESA VERDE BS UNIT #8

Enclosed are the results of analyses for samples received by the laboratory on 03/31/23 12:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	03/31/2023	Sampling Date:	03/30/2023
Reported:	04/05/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-001-00.5-NA-S (H231494-01)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2023	ND	2.09	105	2.00	8.43	
Toluene*	<0.050	0.050	04/03/2023	ND	2.21	110	2.00	7.04	
Ethylbenzene*	<0.050	0.050	04/03/2023	ND	2.21	111	2.00	8.31	
Total Xylenes*	<0.150	0.150	04/03/2023	ND	6.90	115	6.00	7.43	
Total BTEX	<0.300	0.300	04/03/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	04/03/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/03/2023	ND	195	97.3	200	5.16	
DRO >C10-C28*	61.5	10.0	04/03/2023	ND	214	107	200	7.46	
EXT DRO >C28-C36	12.7	10.0	04/03/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	03/31/2023	Sampling Date:	03/30/2023
Reported:	04/05/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-002-00.5-NA-S (H231494-02)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/03/2023	ND	2.09	105	2.00	8.43		
Toluene*	<0.050	0.050	04/03/2023	ND	2.21	110	2.00	7.04		
Ethylbenzene*	<0.050	0.050	04/03/2023	ND	2.21	111	2.00	8.31		
Total Xylenes*	<0.150	0.150	04/03/2023	ND	6.90	115	6.00	7.43		
Total BTEx	<0.300	0.300	04/03/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	04/03/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/03/2023	ND	195	97.3	200	5.16	
DRO >C10-C28*	<10.0	10.0	04/03/2023	ND	214	107	200	7.46	
EXT DRO >C28-C36	<10.0	10.0	04/03/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	03/31/2023	Sampling Date:	03/30/2023
Reported:	04/05/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-003-00.5-NA-S (H231494-03)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/03/2023	ND	2.09	105	2.00	8.43		
Toluene*	<0.050	0.050	04/03/2023	ND	2.21	110	2.00	7.04		
Ethylbenzene*	<0.050	0.050	04/03/2023	ND	2.21	111	2.00	8.31		
Total Xylenes*	<0.150	0.150	04/03/2023	ND	6.90	115	6.00	7.43		
Total BTEX	<0.300	0.300	04/03/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	04/03/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/03/2023	ND	195	97.3	200	5.16	
DRO >C10-C28*	<10.0	10.0	04/03/2023	ND	214	107	200	7.46	
EXT DRO >C28-C36	<10.0	10.0	04/03/2023	ND					

Surrogate: 1-Chlorooctane 98.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	03/31/2023	Sampling Date:	03/30/2023
Reported:	04/05/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-004-00.5-NA-S (H231494-04)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/03/2023	ND	2.09	105	2.00	8.43		
Toluene*	<0.050	0.050	04/03/2023	ND	2.21	110	2.00	7.04		
Ethylbenzene*	<0.050	0.050	04/03/2023	ND	2.21	111	2.00	8.31		
Total Xylenes*	<0.150	0.150	04/03/2023	ND	6.90	115	6.00	7.43		
Total BTEX	<0.300	0.300	04/03/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	04/03/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/03/2023	ND	195	97.3	200	5.16		
DRO >C10-C28*	<10.0	10.0	04/03/2023	ND	214	107	200	7.46		
EXT DRO >C28-C36	<10.0	10.0	04/03/2023	ND						

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	03/31/2023	Sampling Date:	03/30/2023
Reported:	04/05/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-005-00.3-NA-S (H231494-05)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/03/2023	ND	2.09	105	2.00	8.43		
Toluene*	<0.050	0.050	04/03/2023	ND	2.21	110	2.00	7.04		
Ethylbenzene*	<0.050	0.050	04/03/2023	ND	2.21	111	2.00	8.31		
Total Xylenes*	<0.150	0.150	04/03/2023	ND	6.90	115	6.00	7.43		
Total BTEX	<0.300	0.300	04/03/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	04/03/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/03/2023	ND	195	97.3	200	5.16		
DRO >C10-C28*	<10.0	10.0	04/03/2023	ND	214	107	200	7.46		
EXT DRO >C28-C36	<10.0	10.0	04/03/2023	ND						

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	03/31/2023	Sampling Date:	03/30/2023
Reported:	04/05/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-006-00.3-NA-S (H231494-06)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/03/2023	ND	2.09	105	2.00	8.43		
Toluene*	<0.050	0.050	04/03/2023	ND	2.21	110	2.00	7.04		
Ethylbenzene*	<0.050	0.050	04/03/2023	ND	2.21	111	2.00	8.31		
Total Xylenes*	<0.150	0.150	04/03/2023	ND	6.90	115	6.00	7.43		
Total BTX	<0.300	0.300	04/03/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	04/03/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/03/2023	ND	195	97.3	200	5.16	
DRO >C10-C28*	55.1	10.0	04/03/2023	ND	214	107	200	7.46	
EXT DRO >C28-C36	<10.0	10.0	04/03/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received: 03/31/2023  
 Reported: 04/05/2023  
 Project Name: MESA VERDE BS UNIT #8  
 Project Number: NONE GIVEN  
 Project Location: OXY - LEA CO NM

Sampling Date: 03/30/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CF-007-00.3-NA-S (H231494-07)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/03/2023	ND	2.09	105	2.00	8.43		
Toluene*	<0.050	0.050	04/03/2023	ND	2.21	110	2.00	7.04		
Ethylbenzene*	<0.050	0.050	04/03/2023	ND	2.21	111	2.00	8.31		
Total Xylenes*	<0.150	0.150	04/03/2023	ND	6.90	115	6.00	7.43		
Total BTX	<0.300	0.300	04/03/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	04/03/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/03/2023	ND	195	97.3	200	5.16	
DRO >C10-C28*	<10.0	10.0	04/03/2023	ND	214	107	200	7.46	
EXT DRO >C28-C36	<10.0	10.0	04/03/2023	ND					

Surrogate: 1-Chlorooctane 98.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received: 03/31/2023  
 Reported: 04/05/2023  
 Project Name: MESA VERDE BS UNIT #8  
 Project Number: NONE GIVEN  
 Project Location: OXY - LEA CO NM

Sampling Date: 03/30/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CF-008-00.3-NA-S (H231494-08)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/03/2023	ND	2.09	105	2.00	8.43		
Toluene*	<0.050	0.050	04/03/2023	ND	2.21	110	2.00	7.04		
Ethylbenzene*	<0.050	0.050	04/03/2023	ND	2.21	111	2.00	8.31		
Total Xylenes*	<0.150	0.150	04/03/2023	ND	6.90	115	6.00	7.43		
Total BTX	<0.300	0.300	04/03/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	04/03/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/03/2023	ND	195	97.3	200	5.16	
DRO >C10-C28*	16.3	10.0	04/03/2023	ND	214	107	200	7.46	
EXT DRO >C28-C36	<10.0	10.0	04/03/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	03/31/2023	Sampling Date:	03/30/2023
Reported:	04/05/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-013-00.3-NA-S (H231494-09)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/03/2023	ND	2.09	105	2.00	8.43		
Toluene*	<0.050	0.050	04/03/2023	ND	2.21	110	2.00	7.04		
Ethylbenzene*	<0.050	0.050	04/03/2023	ND	2.21	111	2.00	8.31		
Total Xylenes*	<0.150	0.150	04/03/2023	ND	6.90	115	6.00	7.43		
Total BTEX	<0.300	0.300	04/03/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	04/03/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/03/2023	ND	195	97.3	200	5.16		
DRO >C10-C28*	<10.0	10.0	04/03/2023	ND	214	107	200	7.46		
EXT DRO >C28-C36	<10.0	10.0	04/03/2023	ND						

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	03/31/2023	Sampling Date:	03/30/2023
Reported:	04/05/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-014-00.3-NA-S (H231494-10)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/03/2023	ND	2.09	105	2.00	8.43		
Toluene*	<0.050	0.050	04/03/2023	ND	2.21	110	2.00	7.04		
Ethylbenzene*	<0.050	0.050	04/03/2023	ND	2.21	111	2.00	8.31		
Total Xylenes*	<0.150	0.150	04/03/2023	ND	6.90	115	6.00	7.43		
Total BTX	<0.300	0.300	04/03/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	04/03/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/03/2023	ND	192	96.0	200	5.55	QM-07
DRO >C10-C28*	48.2	10.0	04/03/2023	ND	216	108	200	5.63	
EXT DRO >C28-C36	<10.0	10.0	04/03/2023	ND					

Surrogate: 1-Chlorooctane 67.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	03/31/2023	Sampling Date:	03/30/2023
Reported:	04/05/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-015-00.3-NA-S (H231494-11)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/03/2023	ND	2.09	105	2.00	8.43		
Toluene*	<0.050	0.050	04/03/2023	ND	2.21	110	2.00	7.04		
Ethylbenzene*	<0.050	0.050	04/03/2023	ND	2.21	111	2.00	8.31		
Total Xylenes*	<0.150	0.150	04/03/2023	ND	6.90	115	6.00	7.43		
Total BTEX	<0.300	0.300	04/03/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	04/03/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/03/2023	ND	192	96.0	200	5.55	
DRO >C10-C28*	32.3	10.0	04/03/2023	ND	216	108	200	5.63	
EXT DRO >C28-C36	<10.0	10.0	04/03/2023	ND					

Surrogate: 1-Chlorooctane 90.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	03/31/2023	Sampling Date:	03/30/2023
Reported:	04/05/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-016-00.3-NA-S (H231494-12)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/03/2023	ND	2.09	105	2.00	8.43		
Toluene*	<0.050	0.050	04/03/2023	ND	2.21	110	2.00	7.04		
Ethylbenzene*	<0.050	0.050	04/03/2023	ND	2.21	111	2.00	8.31		
Total Xylenes*	<0.150	0.150	04/03/2023	ND	6.90	115	6.00	7.43		
Total BTEx	<0.300	0.300	04/03/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	04/03/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/03/2023	ND	192	96.0	200	5.55	
DRO >C10-C28*	21.1	10.0	04/03/2023	ND	216	108	200	5.63	
EXT DRO >C28-C36	<10.0	10.0	04/03/2023	ND					

Surrogate: 1-Chlorooctane 96.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	03/31/2023	Sampling Date:	03/30/2023
Reported:	04/05/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-017-00.3-NA-S (H231494-13)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/03/2023	ND	2.09	105	2.00	8.43		
Toluene*	<0.050	0.050	04/03/2023	ND	2.21	110	2.00	7.04		
Ethylbenzene*	<0.050	0.050	04/03/2023	ND	2.21	111	2.00	8.31		
Total Xylenes*	<0.150	0.150	04/03/2023	ND	6.90	115	6.00	7.43		
Total BTEx	<0.300	0.300	04/03/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/03/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/03/2023	ND	192	96.0	200	5.55	
DRO >C10-C28*	<10.0	10.0	04/03/2023	ND	216	108	200	5.63	
EXT DRO >C28-C36	<10.0	10.0	04/03/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	03/31/2023	Sampling Date:	03/30/2023
Reported:	04/05/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-018-00.3-NA-S (H231494-14)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/03/2023	ND	2.09	105	2.00	8.43		
Toluene*	<0.050	0.050	04/03/2023	ND	2.21	110	2.00	7.04		
Ethylbenzene*	<0.050	0.050	04/03/2023	ND	2.21	111	2.00	8.31		
Total Xylenes*	<0.150	0.150	04/03/2023	ND	6.90	115	6.00	7.43		
Total BTX	<0.300	0.300	04/03/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	04/03/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/03/2023	ND	192	96.0	200	5.55	
DRO >C10-C28*	<10.0	10.0	04/03/2023	ND	216	108	200	5.63	
EXT DRO >C28-C36	<10.0	10.0	04/03/2023	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.4 % 49.1-148

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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	03/31/2023	Sampling Date:	03/30/2023
Reported:	04/05/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-024-00.3-NA-S (H231494-15)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/03/2023	ND	2.09	105	2.00	8.43		
Toluene*	<0.050	0.050	04/03/2023	ND	2.21	110	2.00	7.04		
Ethylbenzene*	<0.050	0.050	04/03/2023	ND	2.21	111	2.00	8.31		
Total Xylenes*	<0.150	0.150	04/03/2023	ND	6.90	115	6.00	7.43		
Total BTX	<0.300	0.300	04/03/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	04/03/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/03/2023	ND	192	96.0	200	5.55	
DRO >C10-C28*	<10.0	10.0	04/03/2023	ND	216	108	200	5.63	
EXT DRO >C28-C36	<10.0	10.0	04/03/2023	ND					

Surrogate: 1-Chlorooctane 83.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	03/31/2023	Sampling Date:	03/30/2023
Reported:	04/05/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-025-00.3-NA-S (H231494-16)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/03/2023	ND	2.09	105	2.00	8.43		
Toluene*	<0.050	0.050	04/03/2023	ND	2.21	110	2.00	7.04		
Ethylbenzene*	<0.050	0.050	04/03/2023	ND	2.21	111	2.00	8.31		
Total Xylenes*	<0.150	0.150	04/03/2023	ND	6.90	115	6.00	7.43		
Total BTEx	<0.300	0.300	04/03/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	04/03/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/03/2023	ND	192	96.0	200	5.55	
DRO >C10-C28*	<10.0	10.0	04/03/2023	ND	216	108	200	5.63	
EXT DRO >C28-C36	<10.0	10.0	04/03/2023	ND					

Surrogate: 1-Chlorooctane 95.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	03/31/2023	Sampling Date:	03/30/2023
Reported:	04/05/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-026-00.3-NA-S (H231494-17)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/03/2023	ND	2.09	105	2.00	8.43		
Toluene*	<0.050	0.050	04/03/2023	ND	2.21	110	2.00	7.04		
Ethylbenzene*	<0.050	0.050	04/03/2023	ND	2.21	111	2.00	8.31		
Total Xylenes*	<0.150	0.150	04/03/2023	ND	6.90	115	6.00	7.43		
Total BTEX	<0.300	0.300	04/03/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	04/03/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/03/2023	ND	192	96.0	200	5.55		
DRO >C10-C28*	194	10.0	04/03/2023	ND	216	108	200	5.63		
EXT DRO >C28-C36	65.3	10.0	04/03/2023	ND						

Surrogate: 1-Chlorooctane 90.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	03/31/2023	Sampling Date:	03/30/2023
Reported:	04/05/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-027-00.3-NA-S (H231494-18)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/03/2023	ND	1.80	89.9	2.00	1.77		
Toluene*	<0.050	0.050	04/03/2023	ND	1.90	95.1	2.00	2.07		
Ethylbenzene*	<0.050	0.050	04/03/2023	ND	1.96	98.1	2.00	0.600		
Total Xylenes*	<0.150	0.150	04/03/2023	ND	5.96	99.3	6.00	0.684		
Total BTEX	<0.300	0.300	04/03/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	04/03/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/03/2023	ND	192	96.0	200	5.55	
DRO >C10-C28*	<10.0	10.0	04/03/2023	ND	216	108	200	5.63	
EXT DRO >C28-C36	<10.0	10.0	04/03/2023	ND					

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	03/31/2023	Sampling Date:	03/30/2023
Reported:	04/05/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-028-00.3-NA-S (H231494-19)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/03/2023	ND	1.80	89.9	2.00	1.77		
Toluene*	<0.050	0.050	04/03/2023	ND	1.90	95.1	2.00	2.07		
Ethylbenzene*	<0.050	0.050	04/03/2023	ND	1.96	98.1	2.00	0.600		
Total Xylenes*	<0.150	0.150	04/03/2023	ND	5.96	99.3	6.00	0.684		
Total BTEX	<0.300	0.300	04/03/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	04/03/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/03/2023	ND	192	96.0	200	5.55	
DRO >C10-C28*	<10.0	10.0	04/03/2023	ND	216	108	200	5.63	
EXT DRO >C28-C36	<10.0	10.0	04/03/2023	ND					

Surrogate: 1-Chlorooctane 93.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	03/31/2023	Sampling Date:	03/30/2023
Reported:	04/05/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-030-00.3-NA-S (H231494-20)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/03/2023	ND	1.80	89.9	2.00	1.77		
Toluene*	<0.050	0.050	04/03/2023	ND	1.90	95.1	2.00	2.07		
Ethylbenzene*	<0.050	0.050	04/03/2023	ND	1.96	98.1	2.00	0.600		
Total Xylenes*	<0.150	0.150	04/03/2023	ND	5.96	99.3	6.00	0.684		
Total BTEX	<0.300	0.300	04/03/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	04/03/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/03/2023	ND	192	96.0	200	5.55	
DRO >C10-C28*	<10.0	10.0	04/03/2023	ND	216	108	200	5.63	
EXT DRO >C28-C36	<10.0	10.0	04/03/2023	ND					

Surrogate: 1-Chlorooctane 86.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	03/31/2023	Sampling Date:	03/30/2023
Reported:	04/05/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-031-00.3-NA-S (H231494-21)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2023	ND	1.80	89.9	2.00	1.77	
Toluene*	<0.050	0.050	04/03/2023	ND	1.90	95.1	2.00	2.07	
Ethylbenzene*	<0.050	0.050	04/03/2023	ND	1.96	98.1	2.00	0.600	
Total Xylenes*	<0.150	0.150	04/03/2023	ND	5.96	99.3	6.00	0.684	
Total BTEX	<0.300	0.300	04/03/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	04/03/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/03/2023	ND	192	96.0	200	5.55	
DRO >C10-C28*	48.1	10.0	04/03/2023	ND	216	108	200	5.63	
EXT DRO >C28-C36	11.9	10.0	04/03/2023	ND					

Surrogate: 1-Chlorooctane 89.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	03/31/2023	Sampling Date:	03/30/2023
Reported:	04/05/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-032-00.3-NA-S (H231494-22)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/03/2023	ND	1.80	89.9	2.00	1.77		
Toluene*	<0.050	0.050	04/03/2023	ND	1.90	95.1	2.00	2.07		
Ethylbenzene*	<0.050	0.050	04/03/2023	ND	1.96	98.1	2.00	0.600		
Total Xylenes*	<0.150	0.150	04/03/2023	ND	5.96	99.3	6.00	0.684		
Total BTEX	<0.300	0.300	04/03/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	04/03/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/03/2023	ND	192	96.0	200	5.55	
DRO >C10-C28*	<10.0	10.0	04/03/2023	ND	216	108	200	5.63	
EXT DRO >C28-C36	<10.0	10.0	04/03/2023	ND					

Surrogate: 1-Chlorooctane 84.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	03/31/2023	Sampling Date:	03/30/2023
Reported:	04/05/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-033-00.3-NA-S (H231494-23)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/03/2023	ND	1.80	89.9	2.00	1.77		
Toluene*	<0.050	0.050	04/03/2023	ND	1.90	95.1	2.00	2.07		
Ethylbenzene*	<0.050	0.050	04/03/2023	ND	1.96	98.1	2.00	0.600		
Total Xylenes*	<0.150	0.150	04/03/2023	ND	5.96	99.3	6.00	0.684		
Total BTEX	<0.300	0.300	04/03/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	04/03/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/03/2023	ND	192	96.0	200	5.55	
DRO >C10-C28*	<10.0	10.0	04/03/2023	ND	216	108	200	5.63	
EXT DRO >C28-C36	<10.0	10.0	04/03/2023	ND					

Surrogate: 1-Chlorooctane 92.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.4 % 49.1-148

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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	03/31/2023	Sampling Date:	03/30/2023
Reported:	04/05/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-034-00.3-NA-S (H231494-24)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/03/2023	ND	1.80	89.9	2.00	1.77		
Toluene*	<0.050	0.050	04/03/2023	ND	1.90	95.1	2.00	2.07		
Ethylbenzene*	<0.050	0.050	04/03/2023	ND	1.96	98.1	2.00	0.600		
Total Xylenes*	<0.150	0.150	04/03/2023	ND	5.96	99.3	6.00	0.684		
Total BTEX	<0.300	0.300	04/03/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	04/03/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/03/2023	ND	192	96.0	200	5.55	
DRO >C10-C28*	<10.0	10.0	04/03/2023	ND	216	108	200	5.63	
EXT DRO >C28-C36	<10.0	10.0	04/03/2023	ND					

Surrogate: 1-Chlorooctane 87.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.8 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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### Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in cursive script, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager

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CARDINAL  
Laboratories

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Trinity Oilfield Services			BILL TO			ANALYSIS REQUEST					
Project Manager: Dan Dunkelberg			P.O. #:								
Address: 8426 N Dal Paso			Company: OXY USA Inc.								
City: Hobbs			Attn: Wade Dittich								
State: NM Zip: 88241			Address:								
Phone #: Hobbs			City:								
Fax #:			State:								
Project #:			Zip:								
Project Name: Mesa Verde BS Unit #8			dan@trinityoilfieldservices.com								
Project Location:			Phone #:								
Sample Name: GM			Fax #:								
FOR LAB USE ONLY			MATRIX			PRESERV.			SAMPLING		
(G)RAB OR (C)OMP.			# CONTAINERS			GROUNDWATER			DATE		
WASTEWATER			SOIL			OIL			SLUDGE		
OTHER :			ACID/BASE:			ICE / COOL			OTHER :		
LAB I.D.			Sample I.D.			TIME			Chloride		
CF-015-00.3-NA-S			C 1			X			TPH		
CF-016-00.3-NA-S			C 1			X			BTEX		
CF-017-00.3-NA-S			C 1			X					
CF-018-00.3-NA-S			C 1			X					
CF-024-00.3-NA-S			C 1			X					
CF-025-00.3-NA-S			C 1			X					
CF-026-00.3-NA-S			C 1			X					
CF-027-00.3-NA-S			C 1			X					
CF-028-00.3-NA-S			C 1			X					
CF-030-00.3-NA-S			C 1			X					
3/30/2023											
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Relinquished By: [Signature]			Date: 3-31-23			Received By: [Signature]			Add'l Phone #:		
Time: 10:15			Date: 3-31-23			Received By: [Signature]			All Results are emailed. Please provide Email address:		
Relinquished By: [Signature]			Date: 3-31-23			Received By: [Signature]			REMARKS:		
Delivered By: (Circle One)			Observed Temp. °C 1.2			Sample Condition Cool Intact Yes No			CHECKED BY: (Initials) [Signature]		
Corrected Temp. °C 0.4			Turnaround Time:			Standard Rush X			Bacteria (only) Sample Condition Cool Intact Yes No		
Sampler - UPS - Bus - Other:			Thermometer ID #113			Correction Factor -0.5 °C			Observed Temp. °C Corrected Temp. °C		

Page 29 of 29



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April 06, 2023

DAN DUNKELBERG

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587

HOBBS, NM 88241

RE: MESA VERDE BS UNIT #8

Enclosed are the results of analyses for samples received by the laboratory on 04/03/23 16:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/03/2023	Sampling Date:	03/31/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-053-00.3-NA-S (H231523-01)**

BTX 8021B		mg/L		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/04/2023	ND	1.95	97.3	2.00	3.90		
Toluene*	<0.050	0.050	04/04/2023	ND	1.99	99.4	2.00	6.52		
Ethylbenzene*	<0.050	0.050	04/04/2023	ND	2.11	105	2.00	10.4		
Total Xylenes*	<0.150	0.150	04/04/2023	ND	6.40	107	6.00	11.8		
Total BTX	<0.300	0.300	04/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.8 % 77.5-125

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	04/04/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2023	ND	198	98.8	200	4.78	
DRO >C10-C28*	1940	10.0	04/04/2023	ND	197	98.3	200	3.18	
EXT DRO >C28-C36	502	10.0	04/04/2023	ND					

Surrogate: 1-Chlorooctane 129 % 48.2-134

Surrogate: 1-Chlorooctadecane 199 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/03/2023	Sampling Date:	03/31/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-054-00.3-NA-S (H231523-02)**

BTX 8021B		mg/L		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/04/2023	ND	1.95	97.3	2.00	3.90		
Toluene*	<0.050	0.050	04/04/2023	ND	1.99	99.4	2.00	6.52		
Ethylbenzene*	<0.050	0.050	04/04/2023	ND	2.11	105	2.00	10.4		
Total Xylenes*	<0.150	0.150	04/04/2023	ND	6.40	107	6.00	11.8		
Total BTX	<0.300	0.300	04/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 77.5-125

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	04/04/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/05/2023	ND	198	98.8	200	4.78	
DRO >C10-C28*	103	10.0	04/05/2023	ND	197	98.3	200	3.18	
EXT DRO >C28-C36	<10.0	10.0	04/05/2023	ND					

Surrogate: 1-Chlorooctane 139 % 48.2-134

Surrogate: 1-Chlorooctadecane 151 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/03/2023	Sampling Date:	03/31/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-055-00.3-NA-S (H231523-03)**

BTX 8021B		mg/L		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/04/2023	ND	1.95	97.3	2.00	3.90		
Toluene*	<0.050	0.050	04/04/2023	ND	1.99	99.4	2.00	6.52		
Ethylbenzene*	<0.050	0.050	04/04/2023	ND	2.11	105	2.00	10.4		
Total Xylenes*	<0.150	0.150	04/04/2023	ND	6.40	107	6.00	11.8		
Total BTX	<0.300	0.300	04/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.8 % 77.5-125

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1760	16.0	04/04/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2023	ND	198	98.8	200	4.78	
DRO >C10-C28*	1220	10.0	04/04/2023	ND	197	98.3	200	3.18	
EXT DRO >C28-C36	43.3	10.0	04/04/2023	ND					

Surrogate: 1-Chlorooctane 138 % 48.2-134

Surrogate: 1-Chlorooctadecane 195 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/03/2023	Sampling Date:	03/31/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-056-00.3-NA-S (H231523-04)**

BTX 8021B		mg/L		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/04/2023	ND	1.95	97.3	2.00	3.90		
Toluene*	<0.050	0.050	04/04/2023	ND	1.99	99.4	2.00	6.52		
Ethylbenzene*	<0.050	0.050	04/04/2023	ND	2.11	105	2.00	10.4		
Total Xylenes*	<0.150	0.150	04/04/2023	ND	6.40	107	6.00	11.8		
Total BTX	<0.300	0.300	04/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.8 % 77.5-125

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1220	16.0	04/04/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2023	ND	198	98.8	200	4.78	
DRO >C10-C28*	2390	10.0	04/04/2023	ND	197	98.3	200	3.18	
EXT DRO >C28-C36	116	10.0	04/04/2023	ND					

Surrogate: 1-Chlorooctane 144 % 48.2-134

Surrogate: 1-Chlorooctadecane 278 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/03/2023	Sampling Date:	03/31/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-009-00.3-NA-S (H231523-05)**

BTEx 8021B		mg/L		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/04/2023	ND	1.95	97.3	2.00	3.90		
Toluene*	<0.050	0.050	04/04/2023	ND	1.99	99.4	2.00	6.52		
Ethylbenzene*	<0.050	0.050	04/04/2023	ND	2.11	105	2.00	10.4		
Total Xylenes*	<0.150	0.150	04/04/2023	ND	6.40	107	6.00	11.8		
Total BTEX	<0.300	0.300	04/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 87.9 % 77.5-125

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	864	16.0	04/04/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2023	ND	198	98.8	200	4.78	
DRO >C10-C28*	254	10.0	04/04/2023	ND	197	98.3	200	3.18	
EXT DRO >C28-C36	116	10.0	04/04/2023	ND					

Surrogate: 1-Chlorooctane 129 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/03/2023	Sampling Date:	03/31/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-010-00.3-NA-S (H231523-06)**

BTX 8021B		mg/L		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/04/2023	ND	1.95	97.3	2.00	3.90	
Toluene*	<0.050	0.050	04/04/2023	ND	1.99	99.4	2.00	6.52	
Ethylbenzene*	<0.050	0.050	04/04/2023	ND	2.11	105	2.00	10.4	
Total Xylenes*	<0.150	0.150	04/04/2023	ND	6.40	107	6.00	11.8	
Total BTX	<0.300	0.300	04/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 77.5-125

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	04/04/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2023	ND	174	86.8	200	6.37	
DRO >C10-C28*	244	10.0	04/04/2023	ND	206	103	200	3.49	
EXT DRO >C28-C36	144	10.0	04/04/2023	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 142 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/03/2023	Sampling Date:	03/31/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-011-00.3-NA-S (H231523-07)**

BTEx 8021B		mg/L		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/04/2023	ND	2.04	102	2.00	2.92	
Toluene*	<0.050	0.050	04/04/2023	ND	2.10	105	2.00	4.38	
Ethylbenzene*	<0.050	0.050	04/04/2023	ND	2.06	103	2.00	4.08	
Total Xylenes*	<0.150	0.150	04/04/2023	ND	6.41	107	6.00	4.05	
Total BTEX	<0.300	0.300	04/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 77.5-125

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	04/04/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2023	ND	174	86.8	200	6.37	
DRO >C10-C28*	44.1	10.0	04/04/2023	ND	206	103	200	3.49	
EXT DRO >C28-C36	22.1	10.0	04/04/2023	ND					

Surrogate: 1-Chlorooctane 129 % 48.2-134

Surrogate: 1-Chlorooctadecane 146 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/03/2023	Sampling Date:	03/31/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-012-00.3-NA-S (H231523-08)**

BTX 8021B		mg/L		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/04/2023	ND	2.04	102	2.00	2.92		
Toluene*	<0.050	0.050	04/04/2023	ND	2.10	105	2.00	4.38		
Ethylbenzene*	<0.050	0.050	04/04/2023	ND	2.06	103	2.00	4.08		
Total Xylenes*	<0.150	0.150	04/04/2023	ND	6.41	107	6.00	4.05		
Total BTX	<0.300	0.300	04/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 77.5-125

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	04/04/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2023	ND	174	86.8	200	6.37	
DRO >C10-C28*	28.7	10.0	04/04/2023	ND	206	103	200	3.49	
EXT DRO >C28-C36	<10.0	10.0	04/04/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/03/2023	Sampling Date:	03/31/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-019-00.3-NA-S (H231523-09)**

BTX 8021B		mg/L		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/04/2023	ND	2.04	102	2.00	2.92		
Toluene*	<0.050	0.050	04/04/2023	ND	2.10	105	2.00	4.38		
Ethylbenzene*	<0.050	0.050	04/04/2023	ND	2.06	103	2.00	4.08		
Total Xylenes*	<0.150	0.150	04/04/2023	ND	6.41	107	6.00	4.05		
Total BTX	<0.300	0.300	04/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 77.5-125

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1010	16.0	04/04/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2023	ND	174	86.8	200	6.37	
DRO >C10-C28*	29.4	10.0	04/04/2023	ND	206	103	200	3.49	
EXT DRO >C28-C36	12.3	10.0	04/04/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/03/2023	Sampling Date:	03/31/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-020-00.3-NA-S (H231523-10)**

BTX 8021B		mg/L		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/04/2023	ND	2.04	102	2.00	2.92		
Toluene*	<0.050	0.050	04/04/2023	ND	2.10	105	2.00	4.38		
Ethylbenzene*	<0.050	0.050	04/04/2023	ND	2.06	103	2.00	4.08		
Total Xylenes*	<0.150	0.150	04/04/2023	ND	6.41	107	6.00	4.05		
Total BTX	<0.300	0.300	04/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 77.5-125

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6960	16.0	04/04/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2023	ND	174	86.8	200	6.37	
DRO >C10-C28*	75.1	10.0	04/04/2023	ND	206	103	200	3.49	
EXT DRO >C28-C36	<10.0	10.0	04/04/2023	ND					

Surrogate: 1-Chlorooctane 98.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/03/2023	Sampling Date:	03/31/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-021-00.3-NA-S (H231523-11)**

BTX 8021B		mg/L		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/04/2023	ND	2.04	102	2.00	2.92		
Toluene*	<0.050	0.050	04/04/2023	ND	2.10	105	2.00	4.38		
Ethylbenzene*	<0.050	0.050	04/04/2023	ND	2.06	103	2.00	4.08		
Total Xylenes*	<0.150	0.150	04/04/2023	ND	6.41	107	6.00	4.05		
Total BTX	<0.300	0.300	04/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 77.5-125

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4960	16.0	04/04/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2023	ND	174	86.8	200	6.37	
DRO >C10-C28*	123	10.0	04/04/2023	ND	206	103	200	3.49	
EXT DRO >C28-C36	17.7	10.0	04/04/2023	ND					

Surrogate: 1-Chlorooctane 136 % 48.2-134

Surrogate: 1-Chlorooctadecane 161 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/03/2023	Sampling Date:	03/31/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-022-00.3-NA-S (H231523-12)**

BTX 8021B		mg/L		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/04/2023	ND	2.04	102	2.00	2.92		
Toluene*	<0.050	0.050	04/04/2023	ND	2.10	105	2.00	4.38		
Ethylbenzene*	<0.050	0.050	04/04/2023	ND	2.06	103	2.00	4.08		
Total Xylenes*	<0.150	0.150	04/04/2023	ND	6.41	107	6.00	4.05		
Total BTX	<0.300	0.300	04/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 77.5-125

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1200	16.0	04/04/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2023	ND	174	86.8	200	6.37	
DRO >C10-C28*	25.3	10.0	04/04/2023	ND	206	103	200	3.49	
EXT DRO >C28-C36	<10.0	10.0	04/04/2023	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/03/2023	Sampling Date:	03/31/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-023-00.3-NA-S (H231523-13)**

BTX 8021B		mg/L		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/04/2023	ND	2.04	102	2.00	2.92		
Toluene*	<0.050	0.050	04/04/2023	ND	2.10	105	2.00	4.38		
Ethylbenzene*	<0.050	0.050	04/04/2023	ND	2.06	103	2.00	4.08		
Total Xylenes*	<0.150	0.150	04/04/2023	ND	6.41	107	6.00	4.05		
Total BTX	<0.300	0.300	04/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 77.5-125

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	04/04/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2023	ND	174	86.8	200	6.37	
DRO >C10-C28*	<10.0	10.0	04/04/2023	ND	206	103	200	3.49	
EXT DRO >C28-C36	<10.0	10.0	04/04/2023	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/03/2023	Sampling Date:	03/31/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-029-00.3-NA-S (H231523-14)**

BTX 8021B		mg/L		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/04/2023	ND	2.04	102	2.00	2.92	
Toluene*	<0.050	0.050	04/04/2023	ND	2.10	105	2.00	4.38	
Ethylbenzene*	<0.050	0.050	04/04/2023	ND	2.06	103	2.00	4.08	
Total Xylenes*	<0.150	0.150	04/04/2023	ND	6.41	107	6.00	4.05	
Total BTX	<0.300	0.300	04/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 77.5-125

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	04/04/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2023	ND	174	86.8	200	6.37	
DRO >C10-C28*	26.1	10.0	04/04/2023	ND	206	103	200	3.49	
EXT DRO >C28-C36	<10.0	10.0	04/04/2023	ND					

Surrogate: 1-Chlorooctane 125 % 48.2-134

Surrogate: 1-Chlorooctadecane 139 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/03/2023	Sampling Date:	03/31/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-035-00.3-NA-S (H231523-15)**

BTX 8021B		mg/L		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/04/2023	ND	2.04	102	2.00	2.92		
Toluene*	<0.050	0.050	04/04/2023	ND	2.10	105	2.00	4.38		
Ethylbenzene*	<0.050	0.050	04/04/2023	ND	2.06	103	2.00	4.08		
Total Xylenes*	<0.150	0.150	04/04/2023	ND	6.41	107	6.00	4.05		
Total BTX	<0.300	0.300	04/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 77.5-125

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	04/04/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2023	ND	174	86.8	200	6.37	
DRO >C10-C28*	<10.0	10.0	04/04/2023	ND	206	103	200	3.49	
EXT DRO >C28-C36	<10.0	10.0	04/04/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/03/2023	Sampling Date:	03/31/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-036-00.3-NA-S (H231523-16)**

BTX 8021B		mg/L		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/04/2023	ND	2.04	102	2.00	2.92		
Toluene*	<0.050	0.050	04/04/2023	ND	2.10	105	2.00	4.38		
Ethylbenzene*	<0.050	0.050	04/04/2023	ND	2.06	103	2.00	4.08		
Total Xylenes*	<0.150	0.150	04/04/2023	ND	6.41	107	6.00	4.05		
Total BTX	<0.300	0.300	04/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 77.5-125

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	04/04/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2023	ND	174	86.8	200	6.37	
DRO >C10-C28*	17.5	10.0	04/04/2023	ND	206	103	200	3.49	
EXT DRO >C28-C36	<10.0	10.0	04/04/2023	ND					

Surrogate: 1-Chlorooctane 127 % 48.2-134

Surrogate: 1-Chlorooctadecane 142 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/03/2023	Sampling Date:	03/31/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-037-00.3-NA-S (H231523-17)**

BTX 8021B		mg/L		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/04/2023	ND	2.04	102	2.00	2.92		
Toluene*	<0.050	0.050	04/04/2023	ND	2.10	105	2.00	4.38		
Ethylbenzene*	<0.050	0.050	04/04/2023	ND	2.06	103	2.00	4.08		
Total Xylenes*	<0.150	0.150	04/04/2023	ND	6.41	107	6.00	4.05		
Total BTX	<0.300	0.300	04/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 77.5-125

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	04/04/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2023	ND	174	86.8	200	6.37	
DRO >C10-C28*	124	10.0	04/04/2023	ND	206	103	200	3.49	
EXT DRO >C28-C36	57.8	10.0	04/04/2023	ND					

Surrogate: 1-Chlorooctane 132 % 48.2-134

Surrogate: 1-Chlorooctadecane 154 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/03/2023	Sampling Date:	03/31/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-038-00.3-NA-S (H231523-18)**

BTX 8021B		mg/L		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/04/2023	ND	2.04	102	2.00	2.92		
Toluene*	<0.050	0.050	04/04/2023	ND	2.10	105	2.00	4.38		
Ethylbenzene*	<0.050	0.050	04/04/2023	ND	2.06	103	2.00	4.08		
Total Xylenes*	<0.150	0.150	04/04/2023	ND	6.41	107	6.00	4.05		
Total BTX	<0.300	0.300	04/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 77.5-125

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4240	16.0	04/04/2023	ND	416	104	400	3.77	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2023	ND	174	86.8	200	6.37	
DRO >C10-C28*	62.6	10.0	04/04/2023	ND	206	103	200	3.49	
EXT DRO >C28-C36	19.8	10.0	04/04/2023	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 136 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/03/2023	Sampling Date:	03/31/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-039-00.3-NA-S (H231523-19)**

BTX 8021B		mg/L		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/04/2023	ND	2.04	102	2.00	2.92		
Toluene*	<0.050	0.050	04/04/2023	ND	2.10	105	2.00	4.38		
Ethylbenzene*	<0.050	0.050	04/04/2023	ND	2.06	103	2.00	4.08		
Total Xylenes*	<0.150	0.150	04/04/2023	ND	6.41	107	6.00	4.05		
Total BTX	<0.300	0.300	04/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 77.5-125

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5440	16.0	04/04/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2023	ND	174	86.8	200	6.37	
DRO >C10-C28*	84.4	10.0	04/04/2023	ND	206	103	200	3.49	
EXT DRO >C28-C36	13.0	10.0	04/04/2023	ND					

Surrogate: 1-Chlorooctane 126 % 48.2-134

Surrogate: 1-Chlorooctadecane 144 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/03/2023	Sampling Date:	03/31/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-040-00.3-NA-S (H231523-20)**

BTX 8021B		mg/L		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/04/2023	ND	2.04	102	2.00	2.92		
Toluene*	<0.050	0.050	04/04/2023	ND	2.10	105	2.00	4.38		
Ethylbenzene*	<0.050	0.050	04/04/2023	ND	2.06	103	2.00	4.08		
Total Xylenes*	<0.150	0.150	04/04/2023	ND	6.41	107	6.00	4.05		
Total BTX	<0.300	0.300	04/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 77.5-125

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2200	16.0	04/04/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2023	ND	174	86.8	200	6.37	
DRO >C10-C28*	282	10.0	04/04/2023	ND	206	103	200	3.49	
EXT DRO >C28-C36	39.9	10.0	04/04/2023	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 154 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/03/2023	Sampling Date:	03/31/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-041-00.3-NA-S (H231523-21)**

BTEx 8021B		mg/L		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/04/2023	ND	2.04	102	2.00	2.92		
Toluene*	<0.050	0.050	04/04/2023	ND	2.10	105	2.00	4.38		
Ethylbenzene*	<0.050	0.050	04/04/2023	ND	2.06	103	2.00	4.08		
Total Xylenes*	<0.150	0.150	04/04/2023	ND	6.41	107	6.00	4.05		
Total BTEX	<0.300	0.300	04/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 77.5-125

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	880	16.0	04/04/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2023	ND	174	86.8	200	6.37	
DRO >C10-C28*	655	10.0	04/04/2023	ND	206	103	200	3.49	
EXT DRO >C28-C36	176	10.0	04/04/2023	ND					

Surrogate: 1-Chlorooctane 127 % 48.2-134

Surrogate: 1-Chlorooctadecane 181 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/03/2023	Sampling Date:	03/31/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-042-00.3-NA-S (H231523-22)**

BTX 8021B		mg/L		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/04/2023	ND	2.04	102	2.00	2.92		
Toluene*	<0.050	0.050	04/04/2023	ND	2.10	105	2.00	4.38		
Ethylbenzene*	<0.050	0.050	04/04/2023	ND	2.06	103	2.00	4.08		
Total Xylenes*	<0.150	0.150	04/04/2023	ND	6.41	107	6.00	4.05		
Total BTX	<0.300	0.300	04/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 77.5-125

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2240	16.0	04/04/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2023	ND	174	86.8	200	6.37	
DRO >C10-C28*	282	10.0	04/04/2023	ND	206	103	200	3.49	
EXT DRO >C28-C36	49.4	10.0	04/04/2023	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 152 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/03/2023	Sampling Date:	03/31/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-043-00.3-NA-S (H231523-23)**

BTX 8021B		mg/L		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/04/2023	ND	2.04	102	2.00	2.92		
Toluene*	<0.050	0.050	04/04/2023	ND	2.10	105	2.00	4.38		
Ethylbenzene*	<0.050	0.050	04/04/2023	ND	2.06	103	2.00	4.08		
Total Xylenes*	<0.150	0.150	04/04/2023	ND	6.41	107	6.00	4.05		
Total BTX	<0.300	0.300	04/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 77.5-125

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1060	16.0	04/04/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2023	ND	174	86.8	200	6.37	
DRO >C10-C28*	246	10.0	04/04/2023	ND	206	103	200	3.49	
EXT DRO >C28-C36	93.7	10.0	04/04/2023	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 142 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/03/2023	Sampling Date:	03/31/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-044-00.3-NA-S (H231523-24)**

BTX 8021B		mg/L		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/04/2023	ND	2.04	102	2.00	2.92		
Toluene*	<0.050	0.050	04/04/2023	ND	2.10	105	2.00	4.38		
Ethylbenzene*	<0.050	0.050	04/04/2023	ND	2.06	103	2.00	4.08		
Total Xylenes*	<0.150	0.150	04/04/2023	ND	6.41	107	6.00	4.05		
Total BTX	<0.300	0.300	04/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 77.5-125

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	608	16.0	04/04/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2023	ND	174	86.8	200	6.37	
DRO >C10-C28*	1380	10.0	04/04/2023	ND	206	103	200	3.49	
EXT DRO >C28-C36	498	10.0	04/04/2023	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 186 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/03/2023	Sampling Date:	03/31/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-045-00.3-NA-S (H231523-25)**

BTX 8021B		mg/L		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/04/2023	ND	2.04	102	2.00	2.92		
Toluene*	<0.050	0.050	04/04/2023	ND	2.10	105	2.00	4.38		
Ethylbenzene*	<0.050	0.050	04/04/2023	ND	2.06	103	2.00	4.08		
Total Xylenes*	<0.150	0.150	04/04/2023	ND	6.41	107	6.00	4.05		
Total BTX	<0.300	0.300	04/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 77.5-125

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	04/04/2023	ND	416	104	400	3.77		

TPH 8015M	mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2023	ND	174	86.8	200	6.37	
DRO >C10-C28*	1470	10.0	04/04/2023	ND	206	103	200	3.49	
EXT DRO >C28-C36	453	10.0	04/04/2023	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 196 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/03/2023	Sampling Date:	03/31/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-046-00.3-NA-S (H231523-26)**

BTX 8021B		mg/L		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/04/2023	ND	2.04	102	2.00	2.92		
Toluene*	<0.050	0.050	04/04/2023	ND	2.10	105	2.00	4.38		
Ethylbenzene*	<0.050	0.050	04/04/2023	ND	2.06	103	2.00	4.08		
Total Xylenes*	<0.150	0.150	04/04/2023	ND	6.41	107	6.00	4.05		
Total BTX	<0.300	0.300	04/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 77.5-125

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	04/04/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2023	ND	201	101	200	1.10	
DRO >C10-C28*	488	10.0	04/04/2023	ND	187	93.4	200	4.17	QM-07
EXT DRO >C28-C36	179	10.0	04/04/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 143 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/03/2023	Sampling Date:	03/31/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-047-00.3-NA-S (H231523-27)**

BTX 8021B		mg/L		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/04/2023	ND	2.06	103	2.00	5.81	
Toluene*	<0.050	0.050	04/04/2023	ND	2.11	106	2.00	4.16	
Ethylbenzene*	<0.050	0.050	04/04/2023	ND	2.09	105	2.00	4.73	
Total Xylenes*	<0.150	0.150	04/04/2023	ND	6.30	105	6.00	5.30	
Total BTX	<0.300	0.300	04/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 77.5-125

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	04/04/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2023	ND	201	101	200	1.10	
DRO >C10-C28*	1530	10.0	04/04/2023	ND	187	93.4	200	4.17	
EXT DRO >C28-C36	544	10.0	04/04/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 170 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/03/2023	Sampling Date:	03/31/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-048-00.3-NA-S (H231523-28)**

BTX 8021B		mg/L		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/04/2023	ND	2.06	103	2.00	5.81		
Toluene*	<0.050	0.050	04/04/2023	ND	2.11	106	2.00	4.16		
Ethylbenzene*	<0.050	0.050	04/04/2023	ND	2.09	105	2.00	4.73		
Total Xylenes*	<0.150	0.150	04/04/2023	ND	6.30	105	6.00	5.30		
Total BTX	<0.300	0.300	04/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 77.5-125

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	04/04/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2023	ND	201	101	200	1.10	
DRO >C10-C28*	1240	10.0	04/04/2023	ND	187	93.4	200	4.17	
EXT DRO >C28-C36	336	10.0	04/04/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 171 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/03/2023	Sampling Date:	03/31/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-049-00.3-NA-S (H231523-29)**

BTX 8021B		mg/L		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/04/2023	ND	2.06	103	2.00	5.81	
Toluene*	<0.050	0.050	04/04/2023	ND	2.11	106	2.00	4.16	
Ethylbenzene*	<0.050	0.050	04/04/2023	ND	2.09	105	2.00	4.73	
Total Xylenes*	<0.150	0.150	04/04/2023	ND	6.30	105	6.00	5.30	
Total BTX	<0.300	0.300	04/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 77.5-125

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	04/04/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2023	ND	201	101	200	1.10	
DRO >C10-C28*	954	10.0	04/04/2023	ND	187	93.4	200	4.17	
EXT DRO >C28-C36	415	10.0	04/04/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 156 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/03/2023	Sampling Date:	03/31/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-050-00.3-NA-S (H231523-30)**

BTEx 8021B		mg/L		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/04/2023	ND	2.06	103	2.00	5.81		
Toluene*	<0.050	0.050	04/04/2023	ND	2.11	106	2.00	4.16		
Ethylbenzene*	<0.050	0.050	04/04/2023	ND	2.09	105	2.00	4.73		
Total Xylenes*	<0.150	0.150	04/04/2023	ND	6.30	105	6.00	5.30		
Total BTEX	<0.300	0.300	04/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 77.5-125

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	04/04/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2023	ND	201	101	200	1.10	
DRO >C10-C28*	771	10.0	04/04/2023	ND	187	93.4	200	4.17	
EXT DRO >C28-C36	280	10.0	04/04/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 151 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/03/2023	Sampling Date:	03/31/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-051-00.3-NA-S (H231523-31)**

BTEx 8021B		mg/L		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/04/2023	ND	2.06	103	2.00	5.81		
Toluene*	<0.050	0.050	04/04/2023	ND	2.11	106	2.00	4.16		
Ethylbenzene*	<0.050	0.050	04/04/2023	ND	2.09	105	2.00	4.73		
Total Xylenes*	<0.150	0.150	04/04/2023	ND	6.30	105	6.00	5.30		
Total BTEX	<0.300	0.300	04/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 77.5-125

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	04/04/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2023	ND	201	101	200	1.10	
DRO >C10-C28*	1050	10.0	04/04/2023	ND	187	93.4	200	4.17	
EXT DRO >C28-C36	370	10.0	04/04/2023	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 171 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/03/2023	Sampling Date:	03/31/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-052-00.3-NA-S (H231523-32)**

BTX 8021B		mg/L		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/04/2023	ND	2.06	103	2.00	5.81		
Toluene*	<0.050	0.050	04/04/2023	ND	2.11	106	2.00	4.16		
Ethylbenzene*	<0.050	0.050	04/04/2023	ND	2.09	105	2.00	4.73		
Total Xylenes*	<0.150	0.150	04/04/2023	ND	6.30	105	6.00	5.30		
Total BTX	<0.300	0.300	04/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 77.5-125

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	04/04/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2023	ND	201	101	200	1.10	
DRO >C10-C28*	1530	10.0	04/04/2023	ND	187	93.4	200	4.17	
EXT DRO >C28-C36	440	10.0	04/04/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 179 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-04	The RPD for the BS/BSD was outside of historical limits.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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Page 38 of 38



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April 20, 2023

DAN DUNKELBERG

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587

HOBBS, NM 88241

RE: MESA VERDE BS UNIT #8

Enclosed are the results of analyses for samples received by the laboratory on 04/14/23 14:58.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/14/2023	Sampling Date:	04/14/2023
Reported:	04/20/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-044-01.0-NA-S (H231813-01)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/19/2023	ND	2.03	101	2.00	7.37		
Toluene*	<0.050	0.050	04/19/2023	ND	2.13	106	2.00	7.23		
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	2.09	105	2.00	7.68		
Total Xylenes*	<0.150	0.150	04/19/2023	ND	6.49	108	6.00	8.22		
Total BTEX	<0.300	0.300	04/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	04/19/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/19/2023	ND	179	89.6	200	2.79		
DRO >C10-C28*	<10.0	10.0	04/19/2023	ND	175	87.4	200	2.11		
EXT DRO >C28-C36	<10.0	10.0	04/19/2023	ND						

Surrogate: 1-Chlorooctane 99.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/14/2023	Sampling Date:	04/14/2023
Reported:	04/20/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-045-01.0-NA-S (H231813-02)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2023	ND	1.81	90.4	2.00	15.9	QR-03
Toluene*	<0.050	0.050	04/19/2023	ND	1.87	93.6	2.00	16.7	QR-03
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	1.90	95.1	2.00	16.1	QR-03
Total Xylenes*	<0.150	0.150	04/19/2023	ND	5.83	97.2	6.00	14.8	QR-03
Total BTX	<0.300	0.300	04/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	04/19/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/19/2023	ND	179	89.6	200	2.79	
DRO >C10-C28*	<10.0	10.0	04/19/2023	ND	175	87.4	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	04/19/2023	ND					

Surrogate: 1-Chlorooctane 99.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/14/2023	Sampling Date:	04/14/2023
Reported:	04/20/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-047-01.0-NA-S (H231813-03)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2023	ND	1.81	90.4	2.00	15.9	
Toluene*	<0.050	0.050	04/19/2023	ND	1.87	93.6	2.00	16.7	
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	1.90	95.1	2.00	16.1	
Total Xylenes*	<0.150	0.150	04/19/2023	ND	5.83	97.2	6.00	14.8	
Total BTEX	<0.300	0.300	04/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/19/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/19/2023	ND	179	89.6	200	2.79	
DRO >C10-C28*	543	10.0	04/19/2023	ND	175	87.4	200	2.11	
EXT DRO >C28-C36	113	10.0	04/19/2023	ND					

Surrogate: 1-Chlorooctane 93.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/14/2023	Sampling Date:	04/14/2023
Reported:	04/20/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-048-01.0-NA-S (H231813-04)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/19/2023	ND	1.81	90.4	2.00	15.9		
Toluene*	<0.050	0.050	04/19/2023	ND	1.87	93.6	2.00	16.7		
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	1.90	95.1	2.00	16.1		
Total Xylenes*	<0.150	0.150	04/19/2023	ND	5.83	97.2	6.00	14.8		
Total BTEX	<0.300	0.300	04/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	04/19/2023	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/19/2023	ND	179	89.6	200	2.79	
DRO >C10-C28*	<10.0	10.0	04/19/2023	ND	175	87.4	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	04/19/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/14/2023	Sampling Date:	04/14/2023
Reported:	04/20/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-051-01.0-NA-S (H231813-05)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/19/2023	ND	1.81	90.4	2.00	15.9		
Toluene*	<0.050	0.050	04/19/2023	ND	1.87	93.6	2.00	16.7		
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	1.90	95.1	2.00	16.1		
Total Xylenes*	<0.150	0.150	04/19/2023	ND	5.83	97.2	6.00	14.8		
Total BTEX	<0.300	0.300	04/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	04/19/2023	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/19/2023	ND	179	89.6	200	2.79	
DRO >C10-C28*	<10.0	10.0	04/19/2023	ND	175	87.4	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	04/19/2023	ND					

Surrogate: 1-Chlorooctane 99.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/14/2023	Sampling Date:	04/14/2023
Reported:	04/20/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-052-01.0-NA-S (H231813-06)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/19/2023	ND	1.81	90.4	2.00	15.9		
Toluene*	<0.050	0.050	04/19/2023	ND	1.87	93.6	2.00	16.7		
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	1.90	95.1	2.00	16.1		
Total Xylenes*	<0.150	0.150	04/19/2023	ND	5.83	97.2	6.00	14.8		
Total BTEX	<0.300	0.300	04/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	04/19/2023	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/19/2023	ND	179	89.6	200	2.79	
DRO >C10-C28*	<10.0	10.0	04/19/2023	ND	175	87.4	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	04/19/2023	ND					

Surrogate: 1-Chlorooctane 96.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/14/2023	Sampling Date:	04/14/2023
Reported:	04/20/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-053-01.0-NA-S (H231813-07)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/19/2023	ND	1.81	90.4	2.00	15.9		
Toluene*	<0.050	0.050	04/19/2023	ND	1.87	93.6	2.00	16.7		
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	1.90	95.1	2.00	16.1		
Total Xylenes*	<0.150	0.150	04/19/2023	ND	5.83	97.2	6.00	14.8		
Total BTEX	<0.300	0.300	04/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	04/19/2023	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/19/2023	ND	179	89.6	200	2.79	
DRO >C10-C28*	<10.0	10.0	04/19/2023	ND	175	87.4	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	04/19/2023	ND					

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/14/2023	Sampling Date:	04/14/2023
Reported:	04/20/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-055-01.0-NA-S (H231813-08)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2023	ND	1.81	90.4	2.00	15.9	
Toluene*	<0.050	0.050	04/19/2023	ND	1.87	93.6	2.00	16.7	
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	1.90	95.1	2.00	16.1	
Total Xylenes*	<0.150	0.150	04/19/2023	ND	5.83	97.2	6.00	14.8	
Total BTEX	<0.300	0.300	04/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/19/2023	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/19/2023	ND	179	89.6	200	2.79	
DRO >C10-C28*	<10.0	10.0	04/19/2023	ND	175	87.4	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	04/19/2023	ND					

Surrogate: 1-Chlorooctane 86.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/14/2023	Sampling Date:	04/14/2023
Reported:	04/20/2023	Sampling Type:	Soil
Project Name:	MESA VERDE BS UNIT #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: CF-056-01.0-NA-S (H231813-09)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/19/2023	ND	1.81	90.4	2.00	15.9		
Toluene*	<0.050	0.050	04/19/2023	ND	1.87	93.6	2.00	16.7		
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	1.90	95.1	2.00	16.1		
Total Xylenes*	<0.150	0.150	04/19/2023	ND	5.83	97.2	6.00	14.8		
Total BTEX	<0.300	0.300	04/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/19/2023	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/19/2023	ND	179	89.6	200	2.79	
DRO >C10-C28*	554	10.0	04/19/2023	ND	175	87.4	200	2.11	
EXT DRO >C28-C36	113	10.0	04/19/2023	ND					

Surrogate: 1-Chlorooctane 97.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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### Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

Page 12 of 12



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October 19, 2023

DAN DUNKELBERG

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587

HOBBS, NM 88241

RE: MESA VERDE BS UNIT #8

Enclosed are the results of analyses for samples received by the laboratory on 10/02/23 15:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at

[www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in dark ink, reading "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" being more prominent.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
P. O. BOX 2587  
HOBBS NM, 88241

Project: MESA VERDE BS UNIT #8  
Project Number: NONE GIVEN  
Project Manager: DAN DUNKELBERG  
Fax To: NONE

Reported:  
19-Oct-23 09:02

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
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CW-001.0-00.0-S	H235364-01	Soil	29-Sep-23 00:00	02-Oct-23 15:45
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10/19/23 - Client changed the sample ID (see COC). This is the revised report and will replace the one sent on 10/09/23.

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
P. O. BOX 2587  
HOBBS NM, 88241

Project: MESA VERDE BS UNIT #8  
Project Number: NONE GIVEN  
Project Manager: DAN DUNKELBERG  
Fax To: NONE

Reported:  
19-Oct-23 09:02

**CW-001.0-00.0-S**  
**H235364-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>1040</b>		16.0	mg/kg	4	3100503	AC	05-Oct-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3100338	JH	06-Oct-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3100338	JH	06-Oct-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3100338	JH	06-Oct-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3100338	JH	06-Oct-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3100338	JH	06-Oct-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134 3100338 JH 06-Oct-23 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3100331	MS	04-Oct-23	8015B	
DRO >C10-C28*	117		10.0	mg/kg	1	3100331	MS	04-Oct-23	8015B	
EXT DRO >C28-C36	10.7		10.0	mg/kg	1	3100331	MS	04-Oct-23	8015B	

Surrogate: 1-Chlorooctane 94.0 % 48.2-134 3100331 MS 04-Oct-23 8015B

Surrogate: 1-Chlorooctadecane 111 % 49.1-148 3100331 MS 04-Oct-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
P. O. BOX 2587  
HOBBS NM, 88241

Project: MESA VERDE BS UNIT #8  
Project Number: NONE GIVEN  
Project Manager: DAN DUNKELBERG  
Fax To: NONE

Reported:  
19-Oct-23 09:02

**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 3100503 - 1:4 DI Water</b>										
<b>Blank (3100503-BLK1)</b>				Prepared & Analyzed: 05-Oct-23						
Chloride	ND	16.0	mg/kg							
<b>LCS (3100503-BS1)</b>				Prepared & Analyzed: 05-Oct-23						
Chloride	432	16.0	mg/kg	400		108	80-120			
<b>LCS Dup (3100503-BSD1)</b>				Prepared & Analyzed: 05-Oct-23						
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	

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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
P. O. BOX 2587  
HOBBS NM, 88241

Project: MESA VERDE BS UNIT #8  
Project Number: NONE GIVEN  
Project Manager: DAN DUNKELBERG  
Fax To: NONE

Reported:  
19-Oct-23 09:02

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3100338 - Volatiles****Blank (3100338-BLK1)**

Prepared: 03-Oct-23 Analyzed: 06-Oct-23

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0562		mg/kg	0.0500		112	71.5-134			

**LCS (3100338-BS1)**

Prepared: 03-Oct-23 Analyzed: 06-Oct-23

Benzene	2.16	0.050	mg/kg	2.00		108	82.8-130			
Toluene	2.16	0.050	mg/kg	2.00		108	86-128			
Ethylbenzene	2.28	0.050	mg/kg	2.00		114	85.9-128			
m,p-Xylene	4.59	0.100	mg/kg	4.00		115	89-129			
o-Xylene	2.31	0.050	mg/kg	2.00		115	86.1-125			
Total Xylenes	6.90	0.150	mg/kg	6.00		115	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0538		mg/kg	0.0500		108	71.5-134			

**LCS Dup (3100338-BSD1)**

Prepared: 03-Oct-23 Analyzed: 06-Oct-23

Benzene	2.07	0.050	mg/kg	2.00		103	82.8-130	4.20	15.8	
Toluene	2.12	0.050	mg/kg	2.00		106	86-128	1.69	15.9	
Ethylbenzene	2.26	0.050	mg/kg	2.00		113	85.9-128	0.671	16	
m,p-Xylene	4.56	0.100	mg/kg	4.00		114	89-129	0.575	16.2	
o-Xylene	2.29	0.050	mg/kg	2.00		115	86.1-125	0.488	16.7	
Total Xylenes	6.86	0.150	mg/kg	6.00		114	88.2-128	0.546	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0552		mg/kg	0.0500		110	71.5-134			

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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
P. O. BOX 2587  
HOBBS NM, 88241

Project: MESA VERDE BS UNIT #8  
Project Number: NONE GIVEN  
Project Manager: DAN DUNKELBERG  
Fax To: NONE

Reported:  
19-Oct-23 09:02

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3100331 - General Prep - Organics****Blank (3100331-BLK1)**

Prepared &amp; Analyzed: 03-Oct-23

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	51.8		mg/kg	50.0		104	48.2-134			
Surrogate: 1-Chlorooctadecane	61.8		mg/kg	50.0		124	49.1-148			

**LCS (3100331-BS1)**

Prepared &amp; Analyzed: 03-Oct-23

GRO C6-C10	213	10.0	mg/kg	200		106	66.4-123			
DRO >C10-C28	213	10.0	mg/kg	200		107	66.5-118			
Total TPH C6-C28	426	10.0	mg/kg	400		107	77.6-123			
Surrogate: 1-Chlorooctane	54.7		mg/kg	50.0		109	48.2-134			
Surrogate: 1-Chlorooctadecane	60.9		mg/kg	50.0		122	49.1-148			

**LCS Dup (3100331-BS1)**

Prepared &amp; Analyzed: 03-Oct-23

GRO C6-C10	199	10.0	mg/kg	200		99.6	66.4-123	6.64	17.7	
DRO >C10-C28	203	10.0	mg/kg	200		101	66.5-118	5.09	21	
Total TPH C6-C28	402	10.0	mg/kg	400		100	77.6-123	5.86	18.5	
Surrogate: 1-Chlorooctane	51.0		mg/kg	50.0		102	48.2-134			
Surrogate: 1-Chlorooctadecane	57.3		mg/kg	50.0		115	49.1-148			

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager

Page 8 of 8



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**Oil Conservation Division**  
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**Santa Fe, NM 87505**

QUESTIONS

Action 292669

**QUESTIONS**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:
	16696
	Action Number:
	292669
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nOY1807332612
Incident Name	NOY1807332612 MESA VERDE BONE SPRING UNIT #008H @ 30-025-44184
Incident Type	Release Other
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-44184] MESA VERDE BONE SPRING UNIT #008H

**Location of Release Source**

Please answer all the questions in this group.

Site Name	MESA VERDE BONE SPRING UNIT #008H
Date Release Discovered	02/27/2018
Surface Owner	Federal

**Incident Details**

Please answer all the questions in this group.

Incident Type	Release Other
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

**Nature and Volume of Release**

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Cause: Equipment Failure   Tank (Any)   Diesel   Released: 7 BBL   Recovered: 0 BBL   Lost: 7 BBL.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 292669

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:
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	292669
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>No, according to supplied volumes this does not appear to be a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	<b>No</b>
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

**Initial Response**

*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.*

The source of the release has been stopped	<b>True</b>
The impacted area has been secured to protect human health and the environment	<b>True</b>
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	<b>True</b>
All free liquids and recoverable materials have been removed and managed appropriately	<b>True</b>
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>

*Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.*

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.

I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 12/08/2023
--	---

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QUESTIONS, Page 3

Action 292669

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:	16696
	Action Number:	292669
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS****Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

**Remediation Plan**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
---	-----

Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.

Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

**Soil Contamination Sampling:** (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	2020
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	7160
GRO+DRO	(EPA SW-846 Method 8015M)	6236
BTEX	(EPA SW-846 Method 8021B or 8260B)	0.1
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	03/30/2023
On what date will (or did) the final sampling or liner inspection occur	03/30/2023
On what date will (or was) the remediation complete(d)	04/14/2023
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	11108
What is the estimated volume (in cubic yards) that will be remediated	176

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 292669

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:	16696
	Action Number:	292669
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS****Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

**This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:**

(Select all answers below that apply.)

(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	LEA LAND LANDFILL [fEEM0112342028]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.

I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 12/08/2023
--	---

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5  
  
Action 292669

**QUESTIONS (continued)**

Operator:  OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:  16696
	Action Number:  292669
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Deferral Requests Only</b>	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 292669

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:	16696
	Action Number:	292669
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Sampling Event Information</b>	
Last sampling notification (C-141N) recorded	292764
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/13/2023
What was the (estimated) number of samples that were to be gathered	57
What was the sampling surface area in square feet	11108

**Remediation Closure Request**

*Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.*

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	11108
What was the total volume (cubic yards) remediated	176
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	11108
What was the total volume (in cubic yards) reclaimed	176
Summarize any additional remediation activities not included by answers (above)	NA

*The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.*

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 12/11/2023
--	---



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QUESTIONS, Page 7  
  
Action 292669

QUESTIONS (continued)

Operator:  OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:  16696
	Action Number:  292669
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 292669

**CONDITIONS**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:
	16696
	Action Number:
	292669
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

**CONDITIONS**

Created By	Condition	Condition Date
amaxwell	Remediation Closure approved. All areas not reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as practical. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	12/14/2023