

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

Incident ID	NCS1929552375
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party: <b>Enduring Resources</b>	OGRID: <b>372286</b>
Contact Name: <b>Chad Snell</b>	Contact Telephone: <b>505-444-0586</b>
Contact email: <b>csnell@enduringresources.com</b>	Incident # (assigned by OCD) <b>NCS1929552375</b>
Contact mailing address: <b>200 Energy Court</b>	<b>Farmington, New Mexico 87401</b>

### Location of Release Source

Latitude 36.200871 Longitude -107.732303  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: <b>Rodeo 508H</b>	Site Type: <b>Wellsite</b>
Date Release Discovered: <b>9/30/2019</b>	API# (if applicable) <b>30-045-35869</b>

Unit Letter	Section	Township	Range	County
<b>H</b>	<b>25</b>	<b>23N</b>	<b>9W</b>	<b>San Juan</b>

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls):
<input type="checkbox"/> Produced Water	Volume Released (bbls):	Volume Recovered (bbls):
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input checked="" type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
<b>Tank Bottoms from Flowback Tank</b>	<b>20 bbls</b>	<b>15 bbls</b>

#### Cause of Release

On 9/30/2019, a hydrovac was cleaning out tank bottoms on a flowback tank when they inadvertently opened the hatch of the hydrovac truck, spilling the contents of the truck onto the pad. According to the gauge on the truck, there was approximately 20 bbls of flowback tank bottoms in the truck when the hatch was opened. The crew closed the hatch, and sucked up the spilled tank bottoms from the pad surface. Additional cleanup activities have been completed. See attached Remediation Narrative.

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Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

**Initial Response***The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury*

<input type="checkbox"/> The source of the release has been stopped. <input type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
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.
Printed Name: _____ Title: _____ Signature: _____ Date: _____ email: _____ Telephone: _____
<b><u>OCD Only</u></b> Received by: _____ Date: _____

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## 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?	>185 (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.

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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.

Printed Name: Chad SnellTitle: HSE TechSignature: Date: 11-18-19email: csnell@enduringresources.comTelephone: (505)444-0586**OCD Only**

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

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

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## Remediation Plan

**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only:** *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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.

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

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

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

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

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

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

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## 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: Chad SnellTitle: HSE TechSignature: Date: 11-18-19.email: csnell@enduringresources.comTelephone: (505)444-0586**OCD Only**Received by: OCDDate: 11/19/19

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: 2/18/2020Printed Name: CoryTitle: Environmental Specialist

## **Rodeo 508H Remediation Narrative**

**9/30/2019**

A hydrovac truck was cleaning out tank bottoms from onsite flowback tanks when they inadvertently opened the hatch of the truck, releasing contents of the truck onto the pad. According to the gauge on the truck, there was approximately 20 bbls of flowback tank bottoms on the truck when the hatch was opened. The crew closed the hatch, and sucked up the spilled tank bottoms from the pad surface.

**10/3/2019**

Additional clean-up activities began using a backhoe to scrap up impacted soil. Approximately 40 cubic yards of soil was hauled off.

**10/8/2019**

Further excavation continued knowing impacted area would not pass the most stringent standards due to impacted area being in the top four feet of the well pad. An additional 40 cubic yards was removed and disposed of properly. Clean-up activities were completed at this time.

**10/15/2019**

Email notification was sent to the NMOCD and the BLM notifying them that closure samples would take place on Thursday October 17<sup>th</sup> 2019 immediately following sampling activities at the WLU 2309 24N (see attached "Email Notification").

**10/17/2019**

Sampling activities took place with Thomas Vermersch of the NMOCD and Abiodun Emmanuel Adeloye of the BLM onsite to witness. A total of 6 samples were taken all within a 200 square foot area. Sections 1-6 all measured 11 feet in length, 18 feet in width and 18 inches in depth. All samples were sent in for analysis of BTEX, TPH (GRO/DRO/ORO) and Chlorides.

**10/18/2018**

Analytical report was received with two sections being slightly over the standard and needing further excavation. These sections were Section "1 and 3". All other samples returned below most stringent standards and need no further actions. (See attached "Sample Results Table").



**10/22/2019**

Email notification was sent to the BLM and the NMOCD stating that closure sampling on sections "1 and 3" would take place on Thursday October 24<sup>th</sup> 2019 starting at 9:30am (see attached "Email Notification"). Further excavation continued on Sections "1 and 3" scraping an additional 6 inches of impacted soil in those sections. Approximately 10 cubic yards of soil was removed, completing clean-up activities at this time.

**10/24/2019**

Sampling activities took place with the Abiodun Emmanuel Adeloje of the BLM on site to witness. Samples were taken from "Sections 1 and 3" both being 18 feet in width, 11 feet in length and 2 feet in depth from original surface. Walls of excavation were slopped so the whole section could be sampled as a five composite without an additional wall sample.

**10/25/2019**

Analytical report was received and returned results were all under most stringent standards listed in Table 1. No further action is required.





Enduring Resources, LLC  
Spill Closure Report  
Rodeo 508H Release



Photo 1: Release (View 1)



Enduring Resources, LLC  
Spill Closure Report  
Rodeo 508H Release



Photo 2: Release (View 2)





Enduring Resources, LLC  
Spill Closure Report  
Rodeo 508H Release

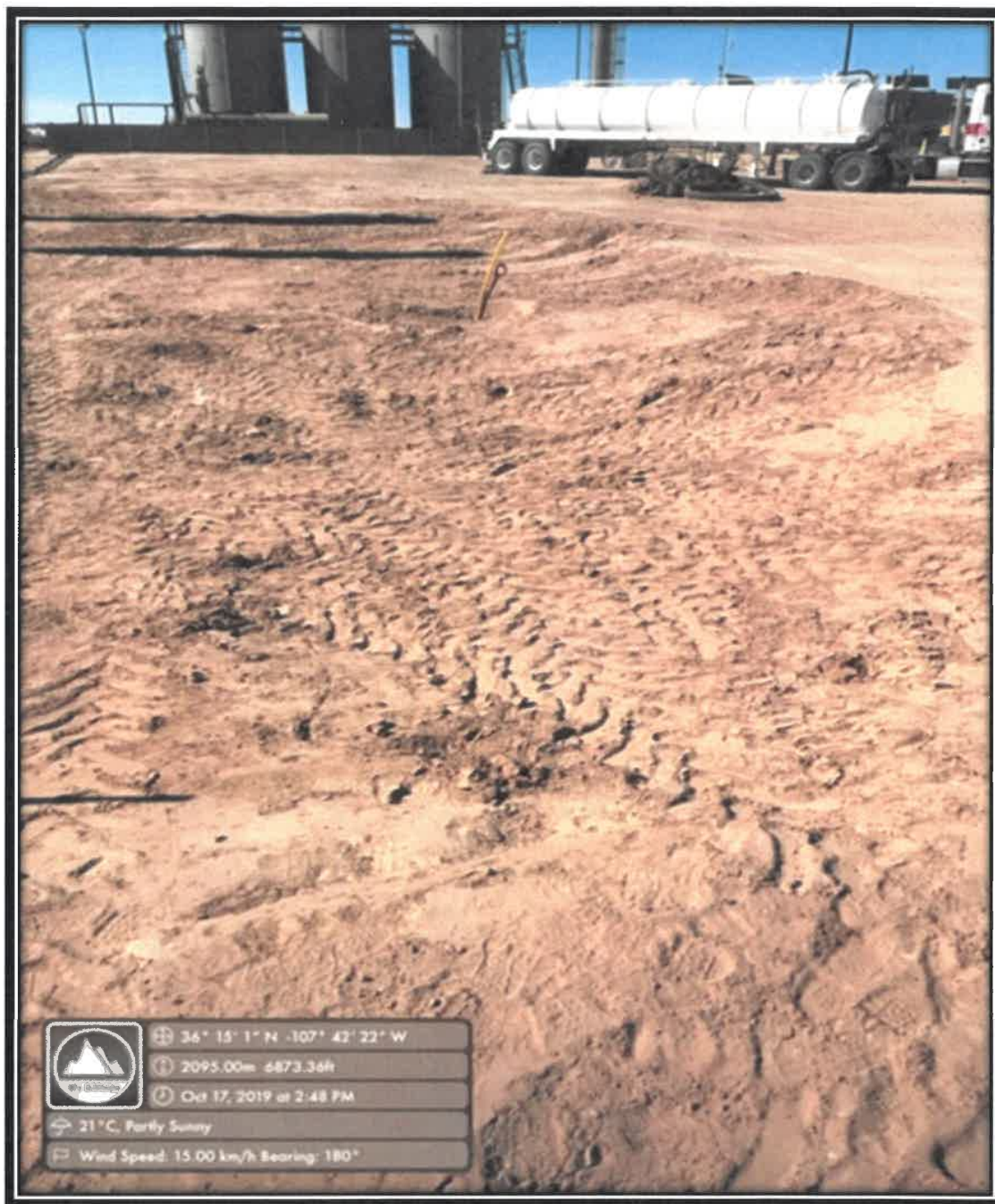


Photo 3: Sampling event 1 after clean-up



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Spill Closure Report  
Rodeo 508H Release

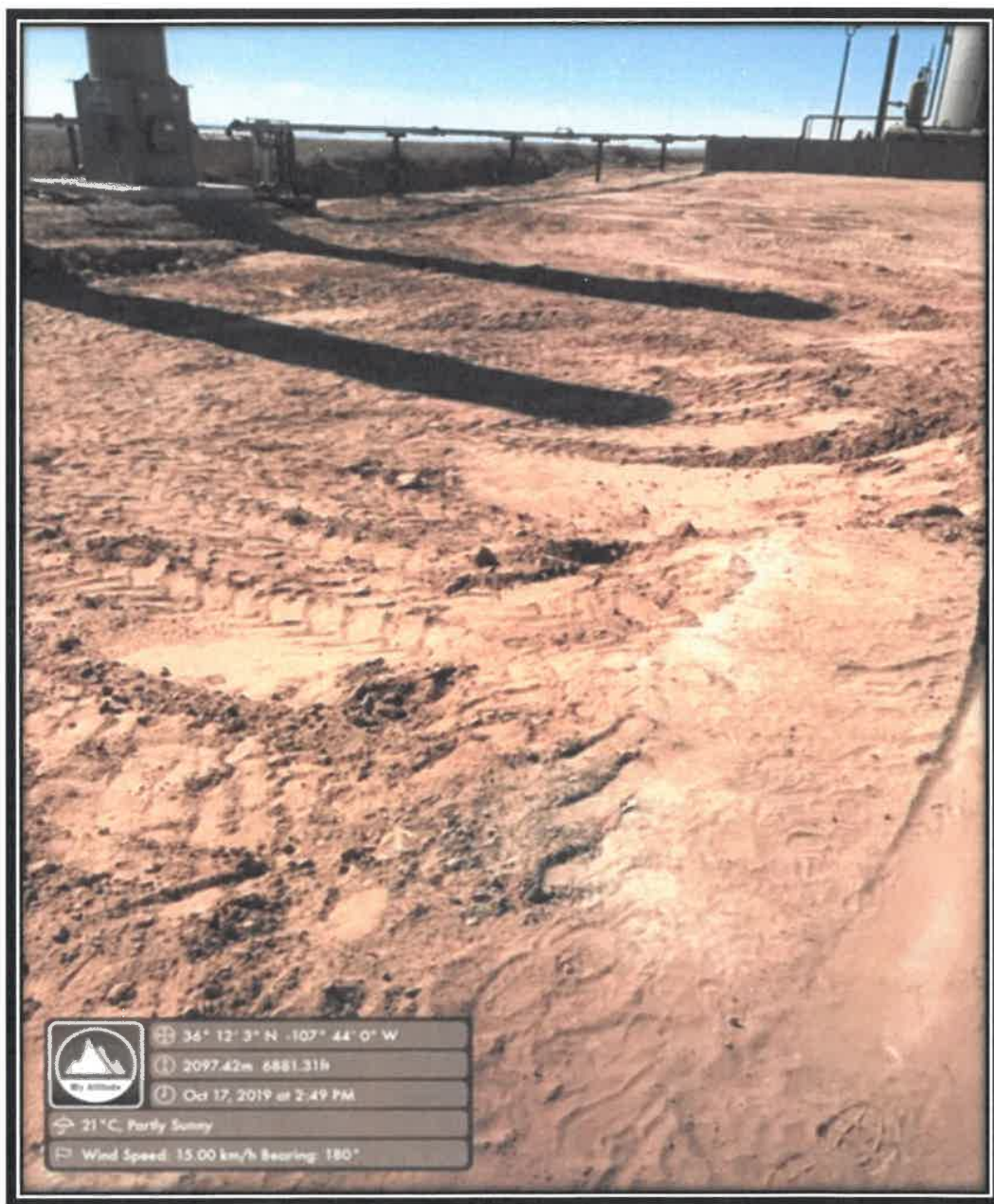


Photo 4: Sampling event 1 after clean-up





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Spill Closure Report  
Rodeo 508H Release

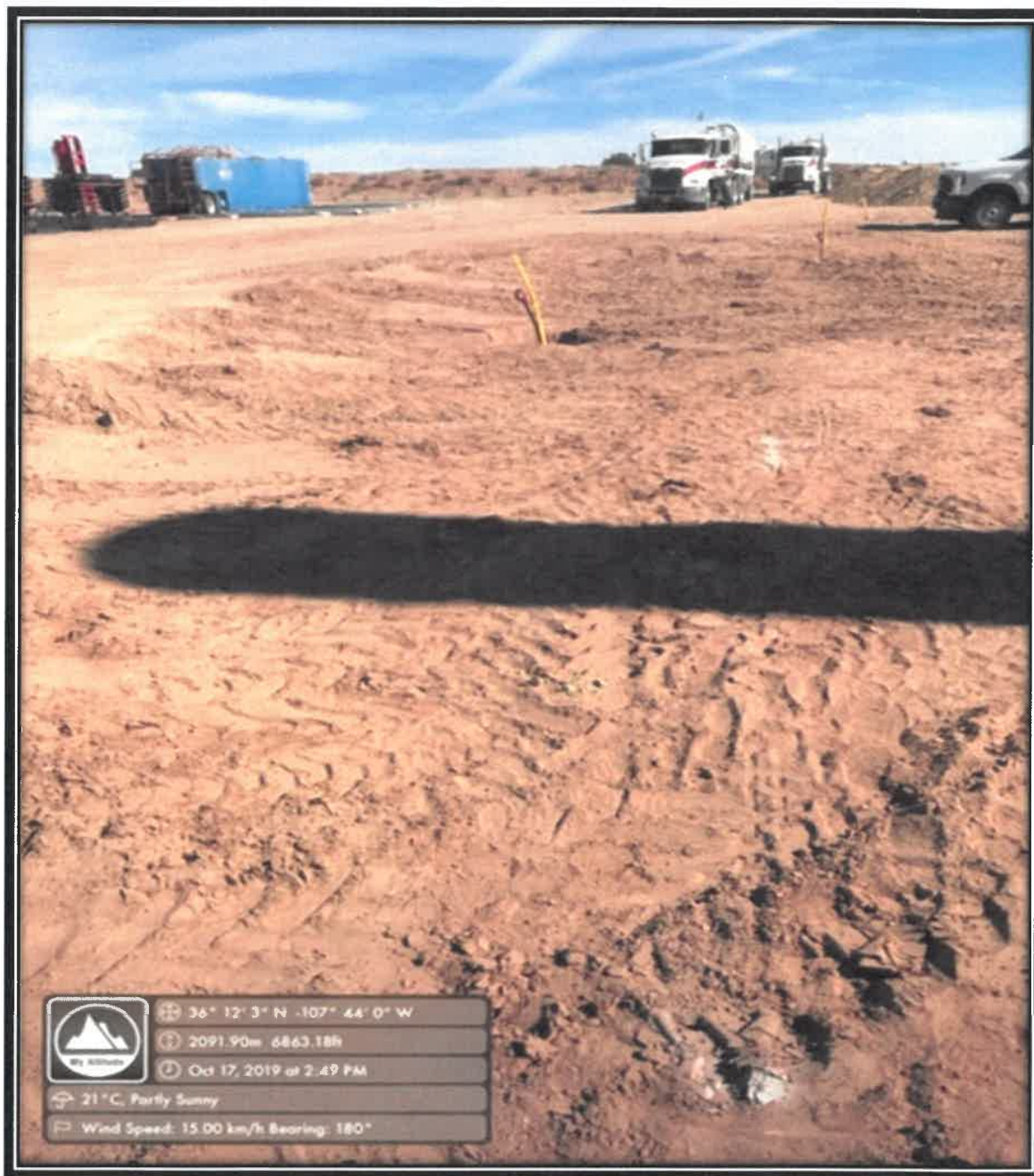


Photo 5: Sampling event 1 after clean-up



Enduring Resources, LLC  
Spill Closure Report  
Rodeo 508H Release

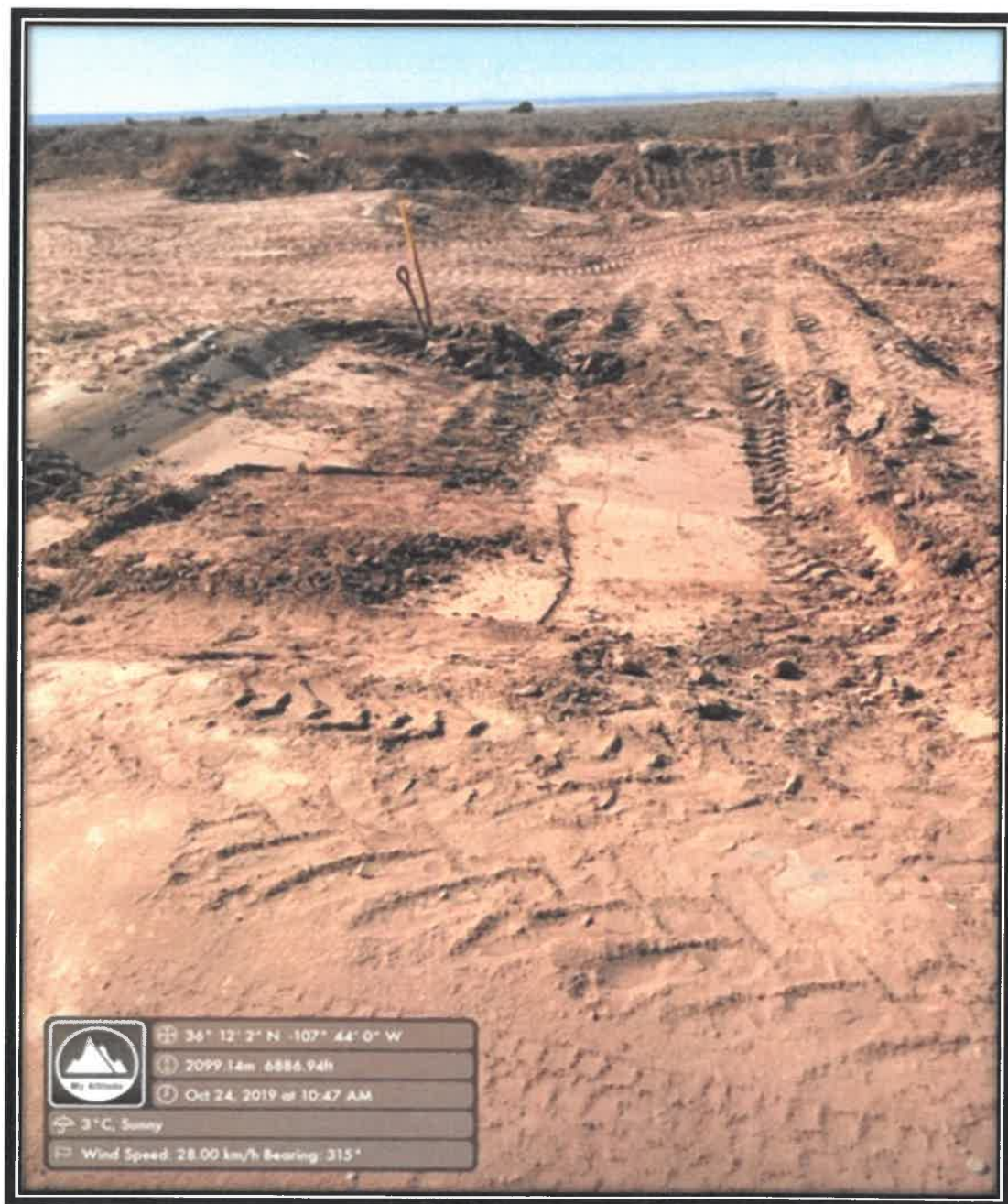


Photo 6: Sampling event 2 "Section 1"





Enduring Resources, LLC  
Spill Closure Report  
Rodeo 508H Release

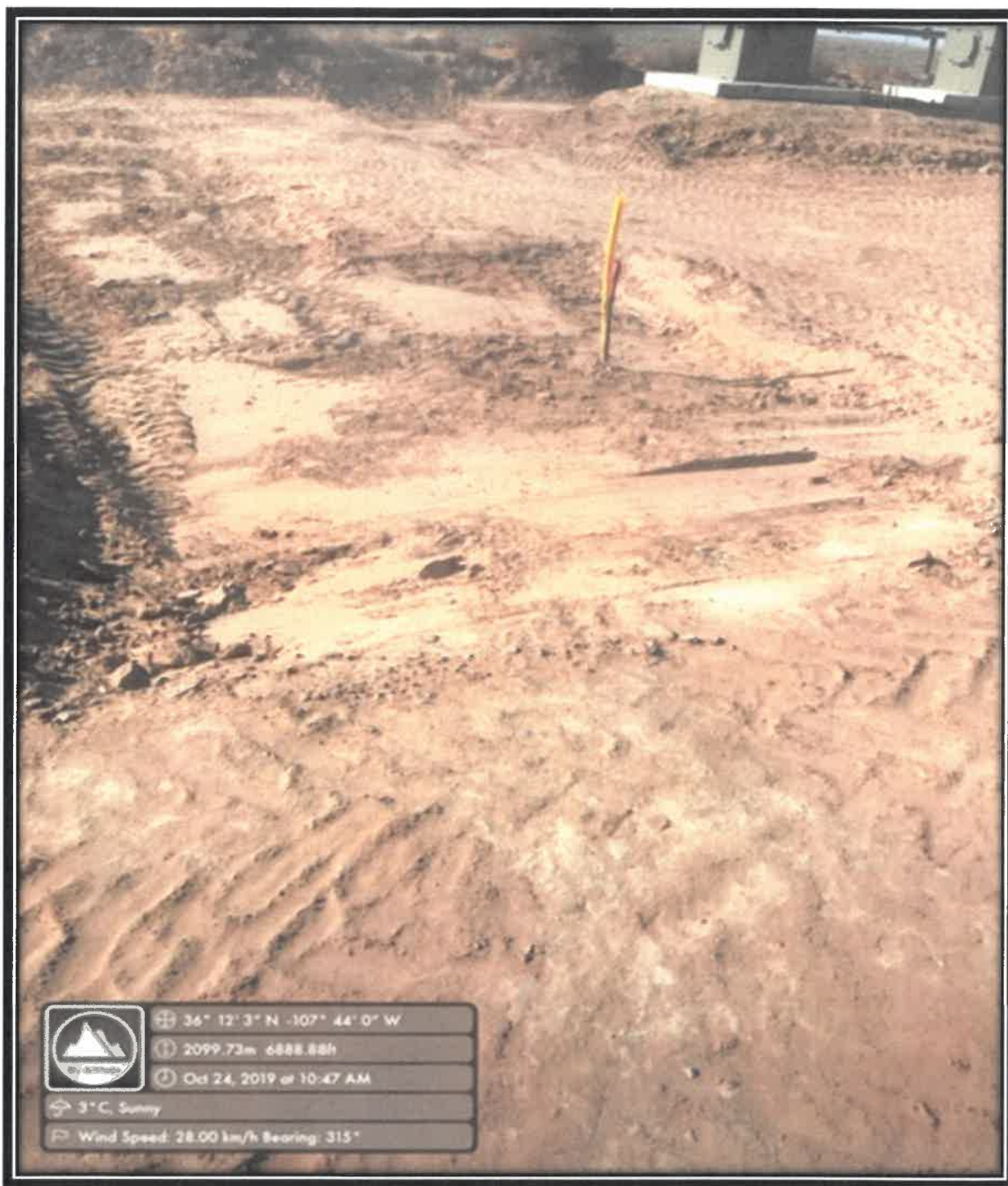


Photo 7: Sampling event 2 "Section 3"



**Chad Snell**

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**From:** Chad Snell  
**Sent:** Tuesday, October 22, 2019 7:36 AM  
**To:** 'Smith, Cory, EMNRD'  
**Cc:** James McDaniel; 'aadeloye@blm.gov'  
**Subject:** RE: Closure Sampling

Good Morning,

Please accept this email as the required 48 hour notice for closure sampling activities to take place at the **WLU 2309 24N (3RF-29, Sec: 24, TWN: 23N, RGE: 9W)**

**Rodeo 508H (30-04535869, Sec: 25, TWN: 23N, RGE: 9W)**. As there were a few sections that had slightly elevated results and will be resampled after further excavation that will be completed today. Sampling activities will take place Thursday October 24<sup>th</sup> 2019 at 9:30am starting at the Rodeo 508H than the WLU 2309 24N once completed at the Rodeo 508H. If you have any questions contact James or myself in regards to this matter.

Thanks.

**From:** Chad Snell  
**Sent:** Tuesday, October 15, 2019 8:34 AM  
**To:** 'Smith, Cory, EMNRD' <Cory.Smith@state.nm.us>  
**Cc:** James McDaniel <JMcDaniel@enduringresources.com>; 'aadeloye@blm.gov' <aadeloye@blm.gov>  
**Subject:** Closure Sampling

Cory,

Please accept this email as the required 48 hour notice for closure sampling activities to take place at the following locations,

**WLU 2309 24N (3RF-29, Sec: 24, TWN: 23N, RGE: 9W)**  
**Rodeo 508H (30-04535869, Sec: 25, TWN: 23N, RGE: 9W)**

All clean-up activities have been completed and closure sampling will take place on October 17<sup>th</sup> at 9:30am. We will start at the WLU 2309 24N than the Rodeo 508H as soon as sample activities are done at the WLU 2309 24N. Both releases at the Rodeo 508H will be sampled at this time. If you have any questions contact James or myself in regards to this matter.

Thanks

Chad Snell  
HSE Tech  
Enduring Resources  
(505) 444-0586.

**Rodeo 508H**

Sample Name	Description	Date	Time	DRO	GRO	DRO+	ORO	Total TPH	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX	Chlorides	Square Footage
STANDARD	Top four feet	NA	NA	NA	NA	100	NA	100	10	NA	NA	NA	50	600	200 sq. ft.
Section 1	Composite	10/17/2019	11:50 AM	199	<20	199	117	316.0	<0.0250	<0.0250	<0.0250	<0.0500	ND	537	198
Section 2	Composite	10/17/2019	11:55 AM	<25	<20	ND	<20	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	56.2	198
Section 3	Composite	10/17/2019	12:00 PM	75.9	<20	75.9	67.7	143.6	<0.0250	<0.0250	<0.0250	<0.0500	ND	73.3	198
Section 4	Composite	10/17/2019	12:05 PM	<25	<20	ND	<20	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	48	198
Section 5	Composite	10/17/2019	12:10 PM	<25	<20	ND	<20	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	ND	198
Section 6	Composite	10/17/2019	12:15 PM	<25	<20	ND	<20	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	44.7	198
Section 1	Composite	10/24/2019	9:35 AM	<25	<20	ND	<20	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	ND	198
Section 3	Composite	10/24/2019	9:35 AM	<25	<20	ND	<20	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	ND	198

**CLOSURE SAMPLES**

Attachment C

## MO-TE DRILLING, INC.

DAY			
DRILLER	JOSH WOOD	LEFT TOWN	ARRIVED FIELD
HELPER	Brando H	LEFT FIELD	ARRIVED TOWN
HELPER	C. S. M	TOTAL FOOTAGE TODAY	
RIG NO.	207	DATE	1-16-18
		CLIENT	Enduring
BEGIN WORK ON HOLE NO.	RODEO UNIT #511H	THAT	FEET
BEGIN WORK ON HOLE NO.		AT	FEET

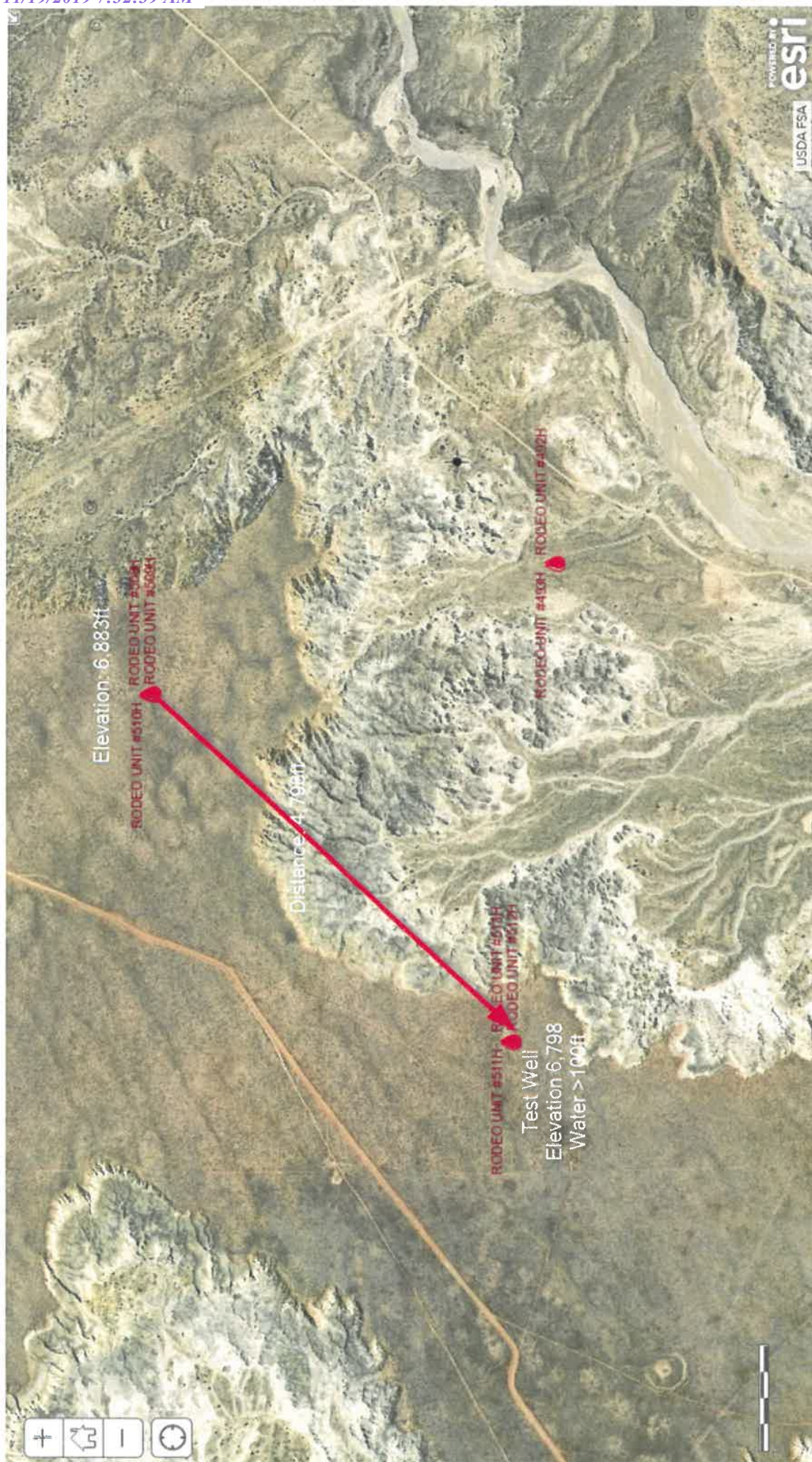
TIME		ACTIVITY
FROM	TO	
7:30	9:00	Drive To location
9:00	9:45	Set up rig, Rig up, Wait on site
9:45	9:55	Drill 0-50' Trip out wait 1 hour
9:55	10:55	Standby Test for water, No water
10:55	11:15	Drill 50-100' Trip out wait 1 hour
11:15	12:15	Standby Test for water, No water
12:15	12:45	Fill in hole Rig down
12:45	2:00	Drive in.
		6 1/4 BIT
		Section 25, T23N, R9W San Juan County
		LAT: 36.191179 LONG: 107.744800
BIT RECORD		
SIZE & MAKE	SERIAL NO.	FOOTAGE
CIRCULATION MATERIAL		
QUAN.	UNIT	MATERIAL

NO. OF LOADS OF WATER \_\_\_\_\_ SOURCE \_\_\_\_\_

san juan repr farm, nm Form 219-6

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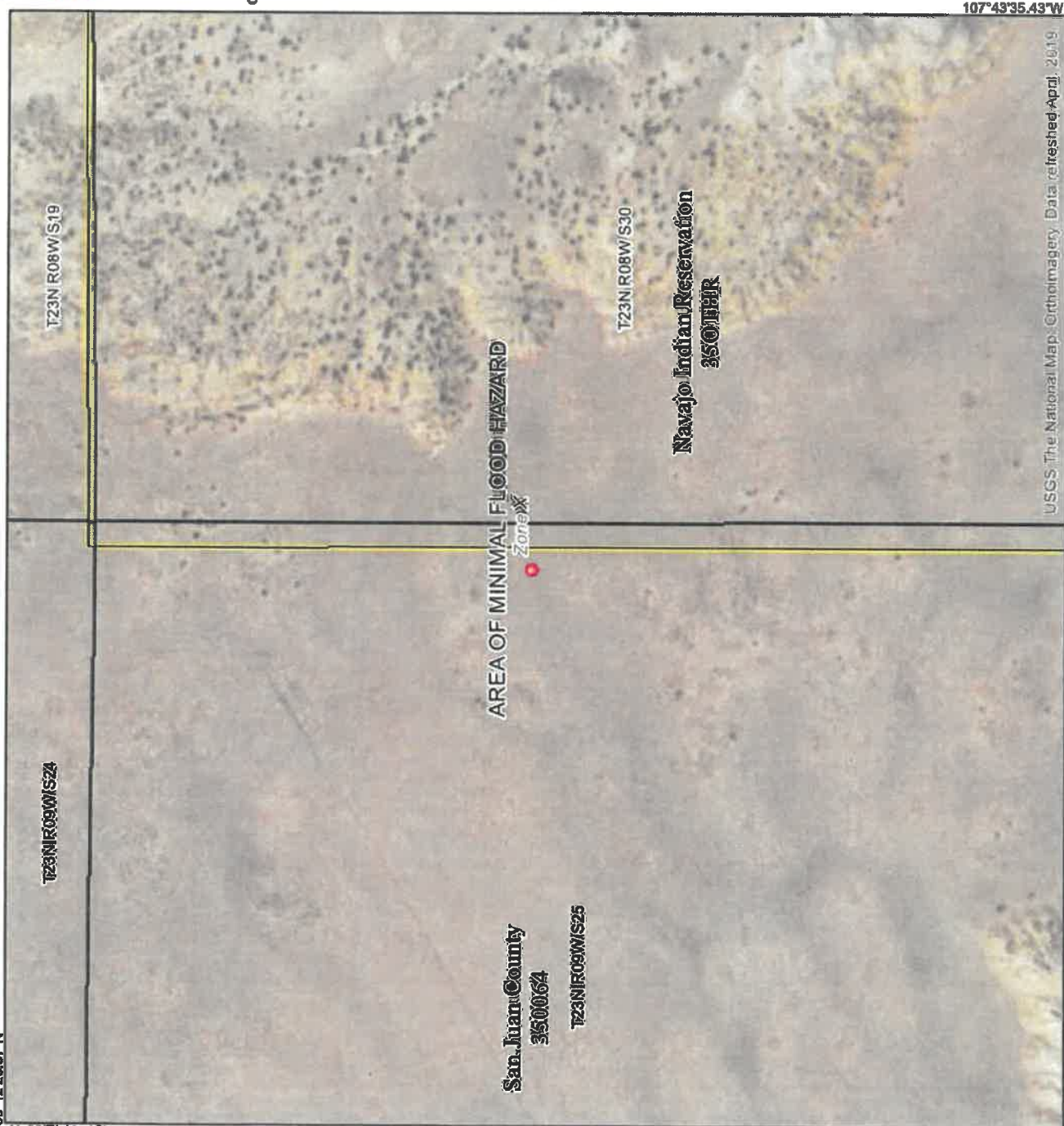




# National Flood Hazard Layer FIRMette



36°12'20.37"N



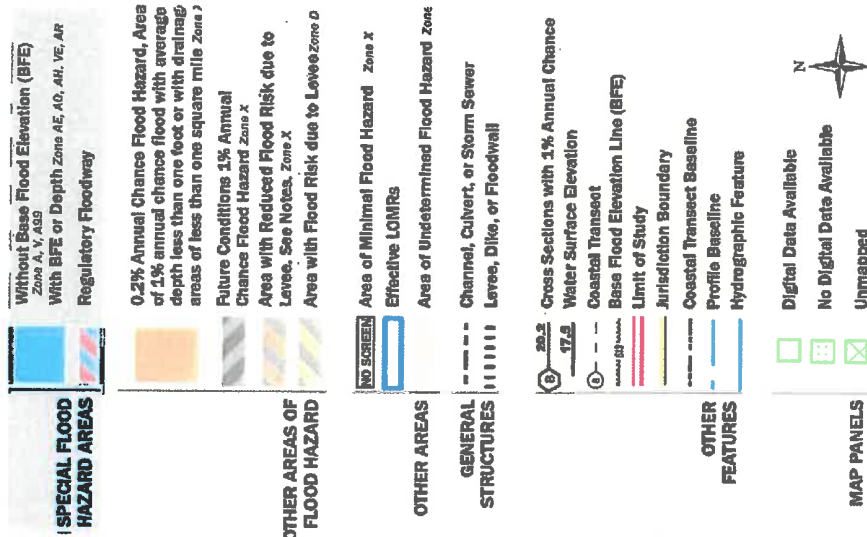
0 250 500 1,000 1,500 2,000 Feet

1:6,000

USGS The National Map: Orthoimagery Data refreshed April, 2019  
36°11'51.34"N  
107°43'35.43"W

## Legend

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

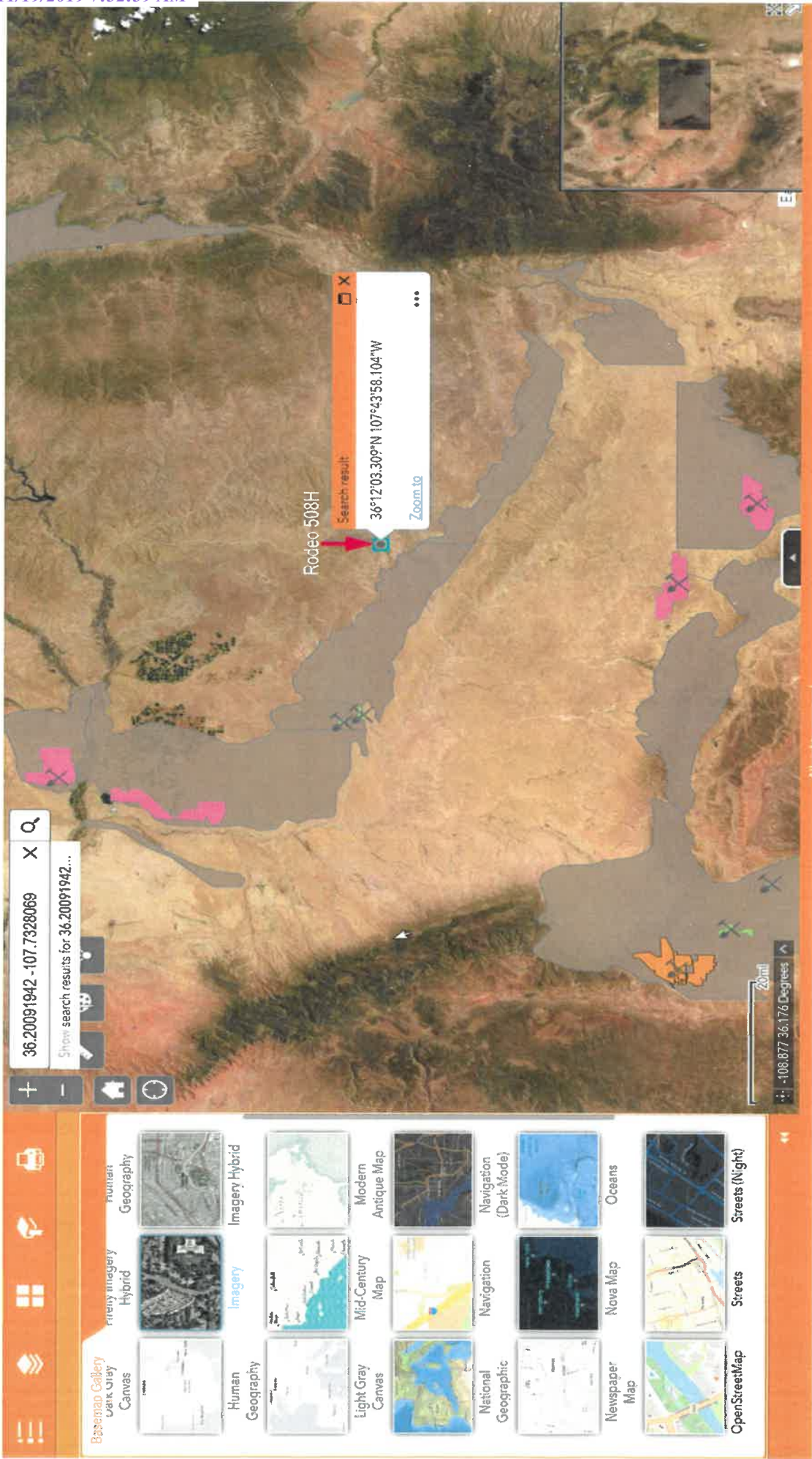


The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

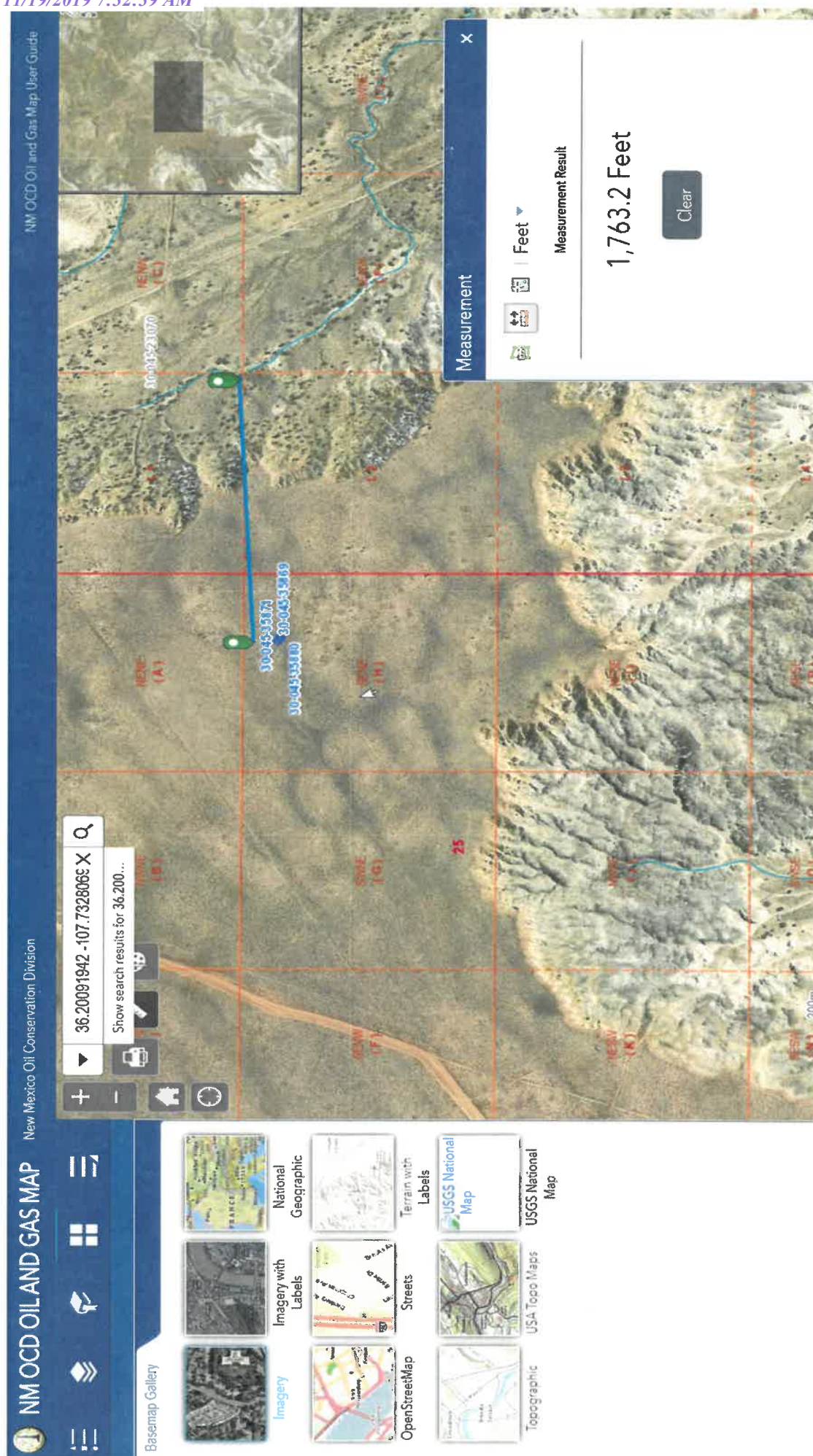
This map complies with FEMA's standards for the use of digital flood maps. It is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **11/12/2019 at 12:30:52 PM** 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.

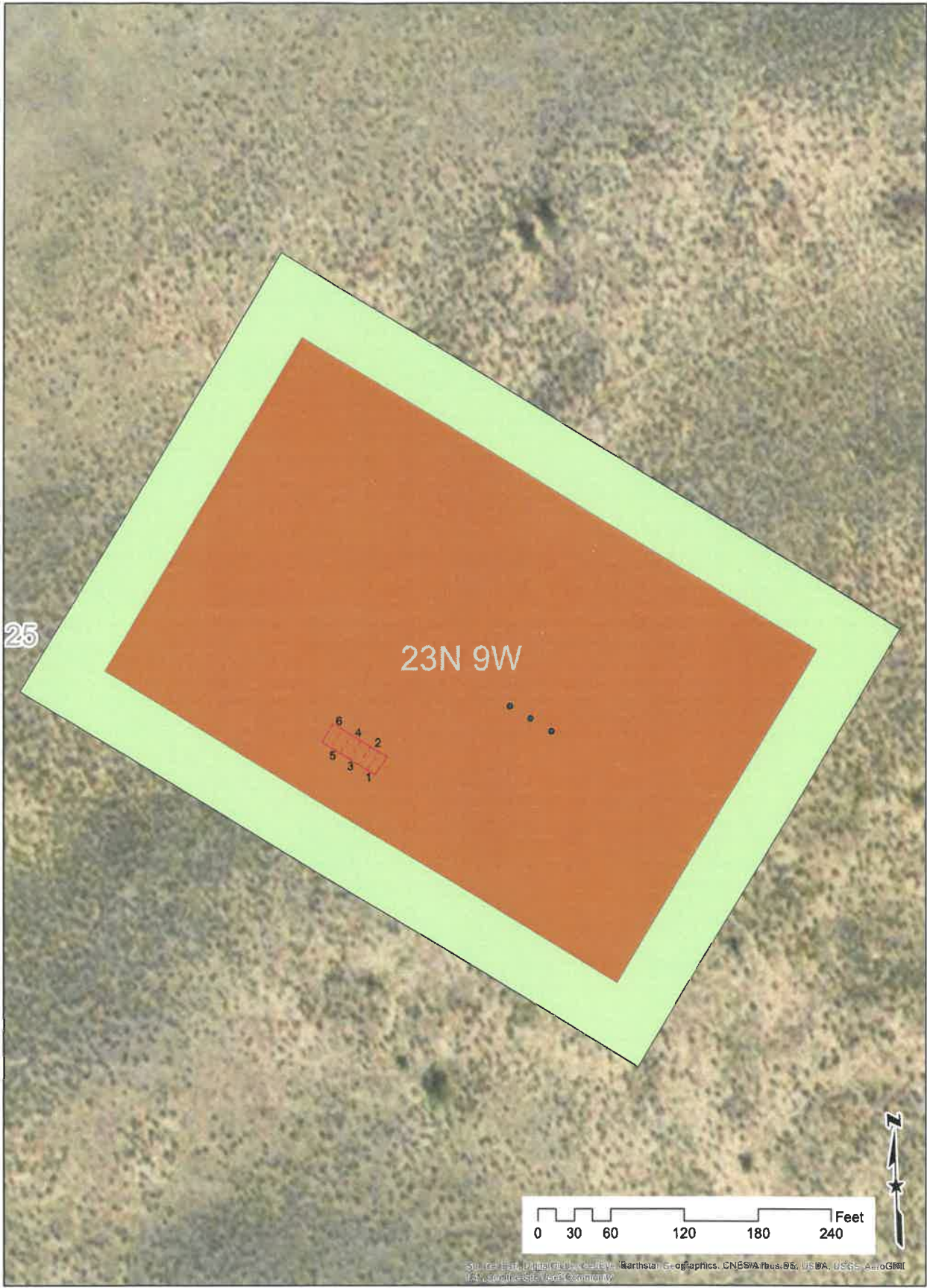
This map image is valid if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory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











**ROU 508 Pad**

- Well head
- Constr Disturb
- AOI
- Well Pad

Updated: 11/12/2019



**ENDURING  
RESOURCES, LLC**



## Analytical Report

### Report Summary

Client: Enduring Resources, LLC

Samples Received: 10/17/2019

Job Number: 17065-0017

Work Order: P910086

Project Name/Location: Rodeo 508H

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a horizontal line.

Date: 10/21/19

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.  
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.  
Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported.  
Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.



Enduring Resources, LLC  
511 16th Street, Suite 700  
Denver CO, 80202

Project Name: Rodeo 508H  
Project Number: 17065-0017  
Project Manager: Chad Snell

Reported:  
10/21/19 12:22

### Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Section 1	P910086-01A	Soil	10/17/19	10/17/19	Glass Jar, 4 oz.
Section 2	P910086-02A	Soil	10/17/19	10/17/19	Glass Jar, 4 oz.
Section 3	P910086-03A	Soil	10/17/19	10/17/19	Glass Jar, 4 oz.
Section 4	P910086-04A	Soil	10/17/19	10/17/19	Glass Jar, 4 oz.
Section 5	P910086-05A	Soil	10/17/19	10/17/19	Glass Jar, 4 oz.
Section 6	P910086-06A	Soil	10/17/19	10/17/19	Glass Jar, 4 oz.

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Enduring Resources, LLC  
511 16th Street, Suite 700  
Denver CO, 80202

Project Name: Rodeo 508H  
Project Number: 17065-0017  
Project Manager: Chad Snell

Reported:  
10/21/19 12:22

**Section 1**  
**P910086-01 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b><u>Volatile Organics by EPA 8021</u></b>									
Benzene	ND	0.0250	mg/kg	1	1942038	10/17/19	10/17/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1942038	10/17/19	10/17/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1942038	10/17/19	10/17/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1942038	10/17/19	10/17/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1942038	10/17/19	10/17/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1942038	10/17/19	10/17/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		95.0 %		50-150	1942038	10/17/19	10/17/19	EPA 8021B	
<b><u>Nonhalogenated Organics by 8015 - DRO/ORO</u></b>									
Diesel Range Organics (C10-C28)	199	25.0	mg/kg	1	1942032	10/17/19	10/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	117	50.0	mg/kg	1	1942032	10/17/19	10/18/19	EPA 8015D	
Surrogate: n-Nonane		108 %		50-200	1942032	10/17/19	10/18/19	EPA 8015D	
<b><u>Nonhalogenated Organics by 8015 - GRO</u></b>									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1942038	10/17/19	10/17/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.3 %		50-150	1942038	10/17/19	10/17/19	EPA 8015D	
<b><u>Anions by 300.0/9056A</u></b>									
Chloride	537	20.0	mg/kg	1	1942031	10/17/19	10/18/19	EPA 300.0/9056A	

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**Section 2**  
**P910086-02 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
Benzene	ND	0.0250	mg/kg	1	1942038	10/17/19	10/17/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1942038	10/17/19	10/17/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1942038	10/17/19	10/17/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1942038	10/17/19	10/17/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1942038	10/17/19	10/17/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1942038	10/17/19	10/17/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		94.7 %		50-150	1942038	10/17/19	10/17/19	EPA 8021B	
<b>Nonhalogenated Organics by 8015 - DRO/ORO</b>									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1942032	10/17/19	10/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1942032	10/17/19	10/18/19	EPA 8015D	
Surrogate: n-Nonane		107 %		50-200	1942032	10/17/19	10/18/19	EPA 8015D	
<b>Nonhalogenated Organics by 8015 - GRO</b>									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1942038	10/17/19	10/17/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.4 %		50-150	1942038	10/17/19	10/17/19	EPA 8015D	
<b>Anions by 300.0/9056A</b>									
Chloride	56.2	20.0	mg/kg	1	1942031	10/17/19	10/18/19	EPA 300.0/9056A	

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**Section 3**  
**P910086-03 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Volatile Organics by EPA 8021**

Benzene	ND	0.0250	mg/kg	1	1942038	10/17/19	10/17/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1942038	10/17/19	10/17/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1942038	10/17/19	10/17/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1942038	10/17/19	10/17/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1942038	10/17/19	10/17/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1942038	10/17/19	10/17/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID	95.3 %			50-150	1942038	10/17/19	10/17/19	EPA 8021B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	75.9	25.0	mg/kg	1	1942032	10/17/19	10/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	67.7	50.0	mg/kg	1	1942032	10/17/19	10/18/19	EPA 8015D	
Surrogate: n-Nonane	108 %			50-200	1942032	10/17/19	10/18/19	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1942038	10/17/19	10/17/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID	84.5 %			50-150	1942038	10/17/19	10/17/19	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	73.3	20.0	mg/kg	1	1942040	10/17/19	10/18/19	EPA 300.0/9056A	
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Enduring Resources, LLC  
511 16th Street, Suite 700  
Denver CO, 80202

Project Name: Rodeo 508H  
Project Number: 17065-0017  
Project Manager: Chad Snell

**Reported:**  
10/21/19 12:22

**Section 4**  
**P910086-04 (Solid)**

Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
<b>Volatiles Organics by EPA 8021</b>								
Benzene	ND	0.0250	mg/kg	1	1942038	10/17/19	10/17/19	EPA 8021B
Toluene	ND	0.0250	mg/kg	1	1942038	10/17/19	10/17/19	EPA 8021B
Ethylbenzene	ND	0.0250	mg/kg	1	1942038	10/17/19	10/17/19	EPA 8021B
p,m-Xylene	ND	0.0500	mg/kg	1	1942038	10/17/19	10/17/19	EPA 8021B
o-Xylene	ND	0.0250	mg/kg	1	1942038	10/17/19	10/17/19	EPA 8021B
Total Xylenes	ND	0.0250	mg/kg	1	1942038	10/17/19	10/17/19	EPA 8021B
Surrogate: 4-Bromochlorobenzene-PID	95.4 %			50-150	1942038	10/17/19	10/17/19	EPA 8021B
<b>Nonhalogenated Organics by 8015 - DRO/ORO</b>								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1942032	10/17/19	10/18/19	EPA 8015D
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1942032	10/17/19	10/18/19	EPA 8015D
Surrogate: n-Nonane	105 %			50-200	1942032	10/17/19	10/18/19	EPA 8015D
<b>Nonhalogenated Organics by 8015 - GRO</b>								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1942038	10/17/19	10/17/19	EPA 8015D
Surrogate: 1-Chloro-4-fluorobenzene-FID	86.2 %			50-150	1942038	10/17/19	10/17/19	EPA 8015D
<b>Anions by 300.0/9056A</b>								
Chloride	48.0	20.0	mg/kg	1	1942040	10/17/19	10/18/19	EPA 300.0/9056A

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**Section 5**  
**P910086-05 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
Benzene	ND	0.0250	mg/kg	1	1942038	10/17/19	10/17/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1942038	10/17/19	10/17/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1942038	10/17/19	10/17/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1942038	10/17/19	10/17/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1942038	10/17/19	10/17/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1942038	10/17/19	10/17/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		95.0 %		50-150	1942038	10/17/19	10/17/19	EPA 8021B	
<b>Nonhalogenated Organics by 8015 - DRO/ORO</b>									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1942032	10/17/19	10/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1942032	10/17/19	10/18/19	EPA 8015D	
Surrogate: n-Nonane		106 %		50-200	1942032	10/17/19	10/18/19	EPA 8015D	
<b>Nonhalogenated Organics by 8015 - GRO</b>									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1942038	10/17/19	10/17/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		84.6 %		50-150	1942038	10/17/19	10/17/19	EPA 8015D	
<b>Anions by 300.0/9056A</b>									
Chloride	ND	20.0	mg/kg	1	1942042	10/17/19	10/18/19	EPA 300.0/9056A	

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Enduring Resources, LLC	Project Name:	Rodeo 508H	Reported: 10/21/19 12:22
511 16th Street, Suite 700	Project Number:	17065-0017	
Denver CO, 80202	Project Manager:	Chad Snell	

**Section 6**  
**P910086-06 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b><u>Volatile Organics by EPA 8021</u></b>									
Benzene	ND	0.0250	mg/kg	1	1942038	10/17/19	10/17/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1942038	10/17/19	10/17/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1942038	10/17/19	10/17/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1942038	10/17/19	10/17/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1942038	10/17/19	10/17/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1942038	10/17/19	10/17/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		95.8 %		50-150	1942038	10/17/19	10/17/19	EPA 8021B	
<b><u>Nonhalogenated Organics by 8015 - DRO/ORO</u></b>									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1942032	10/17/19	10/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1942032	10/17/19	10/18/19	EPA 8015D	
Surrogate: n-Nonane		106 %		50-200	1942032	10/17/19	10/18/19	EPA 8015D	
<b><u>Nonhalogenated Organics by 8015 - GRO</u></b>									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1942038	10/17/19	10/17/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.0 %		50-150	1942038	10/17/19	10/17/19	EPA 8015D	
<b><u>Anions by 300.0/9056A</u></b>									
Chloride	44.7	20.0	mg/kg	1	1942042	10/17/19	10/18/19	EPA 300.0/9056A	

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Enduring Resources, LLC 511 16th Street, Suite 700 Denver CO, 80202	Project Name: Rodeo 508H Project Number: 17065-0017 Project Manager: Chad Snell	Reported: 10/21/19 12:22
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## Volatile Organics by EPA 8021 - Quality Control

## Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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## Batch 1942038 - Purge and Trap EPA 5030A

## Blank (1942038-BLK1)

Prepared: 10/17/19 1 Analyzed: 10/18/19 0

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	7.68		"	8.00		96.0	50-150			

## LCS (1942038-BS1)

Prepared: 10/17/19 1 Analyzed: 10/18/19 0

Benzene	5.02	0.0250	mg/kg	5.00		100	70-130			
Toluene	5.00	0.0250	"	5.00		100	70-130			
Ethylbenzene	4.98	0.0250	"	5.00		99.7	70-130			
p,m-Xylene	9.96	0.0500	"	10.0		99.6	70-130			
o-Xylene	5.01	0.0250	"	5.00		100	70-130			
Total Xylenes	15.0	0.0250	"	15.0		99.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.73		"	8.00		96.6	50-150			

## Matrix Spike (1942038-MS1)

Source: P910081-01

Prepared: 10/17/19 1 Analyzed: 10/18/19 0

Benzene	5.00	0.0250	mg/kg	5.00	ND	100	54.3-133			
Toluene	5.06	0.0250	"	5.00	0.0341	100	61.4-130			
Ethylbenzene	4.97	0.0250	"	5.00	ND	99.4	61.4-133			
p,m-Xylene	10.1	0.0500	"	10.0	0.0639	100	63.3-131			
o-Xylene	5.03	0.0250	"	5.00	ND	101	63.3-131			
Total Xylenes	15.1	0.0250	"	15.0	0.0639	100	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	7.65		"	8.00		95.7	50-150			

## Matrix Spike Dup (1942038-MSD1)

Source: P910081-01

Prepared: 10/17/19 1 Analyzed: 10/18/19 0

Benzene	5.09	0.0250	mg/kg	5.00	ND	102	54.3-133	1.84	20	
Toluene	5.11	0.0250	"	5.00	0.0341	101	61.4-130	0.978	20	
Ethylbenzene	5.06	0.0250	"	5.00	ND	101	61.4-133	1.83	20	
p,m-Xylene	10.2	0.0500	"	10.0	0.0639	101	63.3-131	0.838	20	
o-Xylene	5.10	0.0250	"	5.00	ND	102	63.3-131	1.34	20	
Total Xylenes	15.3	0.0250	"	15.0	0.0639	101	63.3-131	1.00	20	
Surrogate: 4-Bromochlorobenzene-PID	7.68		"	8.00		96.0	50-150			

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Project Name: Rodeo 508H  
Project Number: 17065-0017  
Project Manager: Chad Snell

Reported:  
10/21/19 12:22

### Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1942032 - DRO Extraction EPA 3570</b>										
<b>Blank (1942032-BLK1)</b>				Prepared: 10/17/19 0 Analyzed: 10/17/19 1						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	53.9		"	50.0		108	50-200			
<b>LCS (1942032-BS1)</b>				Prepared: 10/17/19 0 Analyzed: 10/17/19 1						
Diesel Range Organics (C10-C28)	505	25.0	mg/kg	500		101	38-132			
Surrogate: n-Nonane	53.7		"	50.0		107	50-200			
<b>Matrix Spike (1942032-MS1)</b>				Source: P910077-01		Prepared: 10/17/19 0 Analyzed: 10/17/19 1				
Diesel Range Organics (C10-C28)	563	25.0	mg/kg	500	ND	113	38-132			
Surrogate: n-Nonane	57.0		"	50.0		114	50-200			
<b>Matrix Spike Dup (1942032-MSD1)</b>				Source: P910077-01		Prepared: 10/17/19 0 Analyzed: 10/17/19 1				
Diesel Range Organics (C10-C28)	566	25.0	mg/kg	500	ND	113	38-132	0.465	20	
Surrogate: n-Nonane	57.1		"	50.0		114	50-200			

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Project Name: Rodeo 508H  
Project Number: 17065-0017  
Project Manager: Chad Snell

Reported:  
10/21/19 12:22

### Nonhalogenated Organics by 8015 - GRO - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1942038 - Purge and Trap EPA 5030A</b>										
<b>Blank (1942038-BLK1)</b>					Prepared: 10/17/19 1 Analyzed: 10/18/19 0					
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.78		"	8.00		84.7	50-150			
<b>LCS (1942038-BS2)</b>					Prepared: 10/17/19 1 Analyzed: 10/18/19 0					
Gasoline Range Organics (C6-C10)	43.6	20.0	mg/kg	50.0		87.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.87		"	8.00		85.9	50-150			
<b>Matrix Spike (1942038-MS2)</b>					Source: P910081-01	Prepared: 10/17/19 1 Analyzed: 10/18/19 0				
Gasoline Range Organics (C6-C10)	46.0	20.0	mg/kg	50.0	ND	91.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.84		"	8.00		85.5	50-150			
<b>Matrix Spike Dup (1942038-MSD2)</b>					Source: P910081-01	Prepared: 10/17/19 1 Analyzed: 10/18/19 0				
Gasoline Range Organics (C6-C10)	45.0	20.0	mg/kg	50.0	ND	90.0	70-130	2.08	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.98		"	8.00		87.3	50-150			

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Denver CO, 80202

Project Name: Rodeo 508H  
Project Number: 17065-0017  
Project Manager: Chad Snell

Reported:  
10/21/19 12:22

### Anions by 300.0/9056A - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1942031 - Anion Extraction EPA 300.0/9056A</b>										
<b>Blank (1942031-BLK1)</b>										
					Prepared: 10/17/19 0 Analyzed: 10/17/19 1					
Chloride	ND	20.0	mg/kg							
<b>LCS (1942031-BS1)</b>										
					Prepared: 10/17/19 0 Analyzed: 10/17/19 1					
Chloride	256	20.0	mg/kg	250		102	90-110			
<b>Matrix Spike (1942031-MS1)</b>										
					Source: P910079-01 Prepared: 10/17/19 0 Analyzed: 10/17/19 1					
Chloride	2190	40.0	mg/kg	250	2000	74.1	80-120			M4
<b>Matrix Spike Dup (1942031-MSD1)</b>										
					Source: P910079-01 Prepared: 10/17/19 0 Analyzed: 10/17/19 1					
Chloride	2150	40.0	mg/kg	250	2000	59.8	80-120	1.64	20	M4

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511 16th Street, Suite 700  
Denver CO, 80202

Project Name: Rodeo 508H  
Project Number: 17065-0017  
Project Manager: Chad Snell

**Reported:**  
10/21/19 12:22

### Anions by 300.0/9056A - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1942040 - Anion Extraction EPA 300.0/9056A</b>										
<b>Blank (1942040-BLK1)</b>				Prepared & Analyzed: 10/17/19 1						
Chloride	ND	20.0	mg/kg							
<b>LCS (1942040-BS1)</b>				Prepared & Analyzed: 10/17/19 1						
Chloride	257	20.0	mg/kg	250		103	90-110			
<b>Matrix Spike (1942040-MS1)</b>				Source: P910085-01 Prepared: 10/17/19 1 Analyzed: 10/17/19 2						
Chloride	237	20.0	mg/kg	250	ND	94.9	80-120			
<b>Matrix Spike Dup (1942040-MSD1)</b>				Source: P910085-01 Prepared: 10/17/19 1 Analyzed: 10/17/19 2						
Chloride	262	20.0	mg/kg	250	ND	105	80-120	9.80	20	

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Enduring Resources, LLC 511 16th Street, Suite 700 Denver CO, 80202	Project Name: Rodeo 508H Project Number: 17065-0017 Project Manager: Chad Snell	Reported: 10/21/19 12:22
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## Anions by 300.0/9056A - Quality Control

## Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1942042 - Anion Extraction EPA 300.0/9056A</b>										
<b>Blank (1942042-BLK1)</b>										
					Prepared: 10/17/19 1 Analyzed: 10/17/19 2					
Chloride	ND	20.0	mg/kg							
<b>LCS (1942042-BS1)</b>										
					Prepared: 10/17/19 1 Analyzed: 10/17/19 2					
Chloride	256	20.0	mg/kg	250		102	90-110			
<b>Matrix Spike (1942042-MS1)</b>										
					Source: P910087-01 Prepared: 10/17/19 1 Analyzed: 10/17/19 2					
Chloride	292	20.0	mg/kg	250	37.3	102	80-120			
<b>Matrix Spike Dup (1942042-MSD1)</b>										
					Source: P910087-01 Prepared: 10/17/19 1 Analyzed: 10/17/19 2					
Chloride	291	20.0	mg/kg	250	37.3	101	80-120	0.367	20	

## QC Summary Report

## Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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Project Number: 17065-0017  
Project Manager: Chad Snell

**Reported:**  
10/21/19 12:22

#### Notes and Definitions

M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

\*\* Methods marked with \*\* are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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## Page 1 of 1

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## Analytical Report

### Report Summary

Client: Enduring Resources, LLC

Samples Received: 10/24/2019

Job Number: 17065-0017

Work Order: P910153

Project Name/Location: Rodeo 508H

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a horizontal line.

Date: 10/28/19

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.  
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.  
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Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported.  
Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.



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511 16th Street, Suite 700  
Denver CO, 80202

Project Name: Rodeo 508H  
Project Number: 17065-0017  
Project Manager: Chad Snell

**Reported:**  
10/28/19 14:12

### Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Section 1	P910153-01A	Soil	10/24/19	10/24/19	Glass Jar, 4 oz.
Section 3	P910153-02A	Soil	10/24/19	10/24/19	Glass Jar, 4 oz.

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Project Name: Rodeo 508H  
Project Number: 17065-0017  
Project Manager: Chad Snell

Reported:  
10/28/19 14:12

**Section 1**  
**P910153-01 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
Benzene	ND	0.0250	mg/kg	1	1943032	10/24/19	10/24/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943032	10/24/19	10/24/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943032	10/24/19	10/24/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943032	10/24/19	10/24/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943032	10/24/19	10/24/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943032	10/24/19	10/24/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		104 %		50-150	1943032	10/24/19	10/24/19	EPA 8021B	
<b>Nonhalogenated Organics by 8015 - DRO/ORO</b>									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943035	10/24/19	10/25/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943035	10/24/19	10/25/19	EPA 8015D	
Surrogate: n-Nonane		118 %		50-200	1943035	10/24/19	10/25/19	EPA 8015D	
<b>Nonhalogenated Organics by 8015 - GRO</b>									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943032	10/24/19	10/24/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.2 %		50-150	1943032	10/24/19	10/24/19	EPA 8015D	
<b>Anions by 300.0/9056A</b>									
Chloride	ND	20.0	mg/kg	1	1943034	10/24/19	10/24/19	EPA 300.0/9056A	

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Enduring Resources, LLC 511 16th Street, Suite 700 Denver CO, 80202	Project Name: Rodeo 508H Project Number: 17065-0017 Project Manager: Chad Snell	Reported: 10/28/19 14:12
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**Section 3**  
**P910153-02 (Solid)**

Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
<b>Volatile Organics by EPA 8021</b>								
Benzene	ND	0.0250	mg/kg	1	1943032	10/24/19	10/24/19	EPA 8021B
Toluene	ND	0.0250	mg/kg	1	1943032	10/24/19	10/24/19	EPA 8021B
Ethylbenzene	ND	0.0250	mg/kg	1	1943032	10/24/19	10/24/19	EPA 8021B
p,m-Xylene	ND	0.0500	mg/kg	1	1943032	10/24/19	10/24/19	EPA 8021B
o-Xylene	ND	0.0250	mg/kg	1	1943032	10/24/19	10/24/19	EPA 8021B
Total Xylenes	ND	0.0250	mg/kg	1	1943032	10/24/19	10/24/19	EPA 8021B
Surrogate: 4-Bromochlorobenzene-PID		105 %		50-150	1943032	10/24/19	10/24/19	EPA 8021B
<b>Nonhalogenated Organics by 8015 - DRO/ORO</b>								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943035	10/24/19	10/25/19	EPA 8015D
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943035	10/24/19	10/25/19	EPA 8015D
Surrogate: n-Nonane		125 %		50-200	1943035	10/24/19	10/25/19	EPA 8015D
<b>Nonhalogenated Organics by 8015 - GRO</b>								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943032	10/24/19	10/24/19	EPA 8015D
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.0 %		50-150	1943032	10/24/19	10/24/19	EPA 8015D
<b>Anions by 300.0/9056A</b>								
Chloride	ND	20.0	mg/kg	1	1943034	10/24/19	10/24/19	EPA 300.0/9056A

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Project Name: Rodeo 508H  
Project Number: 17065-0017  
Project Manager: Chad Snell

Reported:  
10/28/19 14:12

### Volatile Organics by EPA 8021 - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1943032 - Purge and Trap EPA 5030A

##### Blank (1943032-BLK1)

Prepared: 10/24/19 1 Analyzed: 10/24/19 2

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							

Surrogate: 4-Bromochlorobenzene-PID 8.59 " 8.00 107 50-150

##### LCS (1943032-BS1)

Prepared: 10/24/19 1 Analyzed: 10/24/19 2

Benzene	4.51	0.0250	mg/kg	5.00		90.3	70-130			
Toluene	4.70	0.0250	"	5.00		94.1	70-130			
Ethylbenzene	4.77	0.0250	"	5.00		95.5	70-130			
p,m-Xylene	9.53	0.0500	"	10.0		95.3	70-130			
o-Xylene	4.81	0.0250	"	5.00		96.2	70-130			
Total Xylenes	14.3	0.0250	"	15.0		95.6	70-130			

Surrogate: 4-Bromochlorobenzene-PID 8.71 " 8.00 109 50-150

##### Matrix Spike (1943032-MS1)

Source: P910153-01

Prepared: 10/24/19 1 Analyzed: 10/24/19 2

Benzene	4.27	0.0250	mg/kg	5.00	ND	85.4	54.3-133			
Toluene	4.46	0.0250	"	5.00	ND	89.1	61.4-130			
Ethylbenzene	4.54	0.0250	"	5.00	ND	90.7	61.4-133			
p,m-Xylene	9.06	0.0500	"	10.0	ND	90.6	63.3-131			
o-Xylene	4.57	0.0250	"	5.00	ND	91.3	63.3-131			
Total Xylenes	13.6	0.0250	"	15.0	ND	90.8	63.3-131			

Surrogate: 4-Bromochlorobenzene-PID 8.63 " 8.00 108 50-150

##### Matrix Spike Dup (1943032-MSD1)

Source: P910153-01

Prepared: 10/24/19 1 Analyzed: 10/25/19 0

Benzene	4.20	0.0250	mg/kg	5.00	ND	84.1	54.3-133	1.51	20	
Toluene	4.38	0.0250	"	5.00	ND	87.6	61.4-130	1.76	20	
Ethylbenzene	4.46	0.0250	"	5.00	ND	89.1	61.4-133	1.78	20	
p,m-Xylene	8.89	0.0500	"	10.0	ND	88.9	63.3-131	1.84	20	
o-Xylene	4.48	0.0250	"	5.00	ND	89.7	63.3-131	1.85	20	
Total Xylenes	13.4	0.0250	"	15.0	ND	89.2	63.3-131	1.84	20	

Surrogate: 4-Bromochlorobenzene-PID 8.63 " 8.00 108 50-150

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Enduring Resources, LLC 511 16th Street, Suite 700 Denver CO, 80202	Project Name: Rodeo 508H Project Number: 17065-0017 Project Manager: Chad Snell	Reported: 10/28/19 14:12
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## Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

## Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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## Batch 1943035 - DRO Extraction EPA 3570

## Blank (1943035-BLK1)

Prepared: 10/24/19 1 Analyzed: 10/25/19 0

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	59.6		"	50.0		119	50-200			

## LCS (1943035-BS1)

Prepared: 10/24/19 1 Analyzed: 10/25/19 0

Diesel Range Organics (C10-C28)	519	25.0	mg/kg	500		104	38-132			
Surrogate: n-Nonane	60.3		"	50.0		121	50-200			

## Matrix Spike (1943035-MS1)

Source: P910153-01

Prepared: 10/24/19 1 Analyzed: 10/25/19 0

Diesel Range Organics (C10-C28)	520	25.0	mg/kg	500	ND	104	38-132			
Surrogate: n-Nonane	59.6		"	50.0		119	50-200			

## Matrix Spike Dup (1943035-MSD1)

Source: P910153-01

Prepared: 10/24/19 1 Analyzed: 10/25/19 0

Diesel Range Organics (C10-C28)	529	25.0	mg/kg	500	ND	106	38-132	1.85	20	
Surrogate: n-Nonane	61.5		"	50.0		123	50-200			

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Reported:  
10/28/19 14:12

### Nonhalogenated Organics by 8015 - GRO - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1943032 - Purge and Trap EPA 5030A</b>										
<b>Blank (1943032-BLK1)</b>				Prepared: 10/24/19 1 Analyzed: 10/24/19 2						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.65		"	8.00		95.6	50-150			
<b>LCS (1943032-BS2)</b>				Prepared: 10/24/19 1 Analyzed: 10/25/19 0						
Gasoline Range Organics (C6-C10)	52.6	20.0	mg/kg	50.0		105	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.56		"	8.00		94.5	50-150			
<b>Matrix Spike (1943032-MS2)</b>				<b>Source: P910153-01</b>		Prepared: 10/24/19 1 Analyzed: 10/25/19 0				
Gasoline Range Organics (C6-C10)	52.3	20.0	mg/kg	50.0	ND	105	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.61		"	8.00		95.2	50-150			
<b>Matrix Spike Dup (1943032-MSD2)</b>				<b>Source: P910153-01</b>		Prepared: 10/24/19 1 Analyzed: 10/25/19 0				
Gasoline Range Organics (C6-C10)	54.0	20.0	mg/kg	50.0	ND	108	70-130	3.17	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.62		"	8.00		95.3	50-150			

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10/28/19 14:12

### Anions by 300.0/9056A - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1943034 - Anion Extraction EPA 300.0/9056A</b>										
<b>Blank (1943034-BLK1)</b>				Prepared & Analyzed: 10/24/19 1						
Chloride	ND	20.0	mg/kg							
<b>LCS (1943034-BS1)</b>				Prepared & Analyzed: 10/24/19 1						
Chloride	255	20.0	mg/kg	250		102	90-110			
<b>Matrix Spike (1943034-MS1)</b>				<b>Source: P910153-01</b>		Prepared & Analyzed: 10/24/19 1				
Chloride	275	20.0	mg/kg	250	ND	110	80-120			
<b>Matrix Spike Dup (1943034-MSD1)</b>				<b>Source: P910153-01</b>		Prepared & Analyzed: 10/24/19 1				
Chloride	275	20.0	mg/kg	250	ND	110	80-120	0.193	20	

#### QC Summary Report

##### Comment:

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#### Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

\*\* Methods marked with \*\* are non-accredited methods.

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