# Remediation Summary and Soil Closure Request

#### Permian Resources Raider Fed Com 101H

Lea County, New Mexico
Unit Letter A, Section 21, Township 24 South, Range 34 East
Latitude 32.20917 North, Longitude 103.46866 West
NMOCD Reference No. nAPP2329024748

Prepared By:

Etech Environmental & Safety Solutions, Inc.

2617 W. Marland Hobbs, New Mexico 88240

Robbie Runnels

Joel W. Lowry



Midland • San Antonio • Lubbock • Hobbs • Lafayette

#### **TABLE OF CONTENTS**

	Section
PROJECT INFORMATION	1.0
SITE CHARACTERIZATION	2.0
CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE	3.0
REMEDIATION ACTIVITIES SUMMARY	4.0
RESTORATION, RECLAMATION, AND RE-VEGETATION PLAN	5.0
SOIL CLOSURE REQUEST	6 <b>.</b> 0
LIMITATIONS	<b>7.0</b>
DISTRIBUTION	<b>8.0</b>

#### **FIGURES**

Figure 1 - Topographic Map

Figure 2 - Aerial Proximity Map

Figure 3 - Site and Sample Location Map

#### **TABLES**

Table 1 - Concentrations of BTEX, TPH, and Chloride in Soil

#### **APPENDICES**

Appendix A - Depth to Groundwater Information

Appendix B - Field Data and Soil Profile Logs

Appendix C - Laboratory Analytical Reports

Appendix D - Photographic Log

Appendix E - Regulatory Correspondence

Appendix F - Electronic C-141 Supplemental Site Characterization Maps

#### 1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Permian Resources, has prepared this *Remediation Summary* and Soil Closure Request for the release site known as the Raider Fed Com 101H (henceforth, "Site"). Details of the release are summarized below:

Latitude:	32.2091	7	Longitude:		-103.46866						
		Provided	d GPS are in WGS84 form	nat.							
	Raider Fed C	om 101H	Site Type:		Tank Battery						
Date Release Discovere	d:	7/8/2022	API # (if appli	cable):	3002543408						
Unit Letter Section Township Range County											
A 2	21	24S	34E	Lea							
Surface Owner: State Federal Tribal X Private (Name Quail Ranch											
Nature and Volume of Release											
X Crude Oil Volume Released (bbls) 80 Volume Recovered (bbls) 65											
Produced Water	Volume Re	leased (bbls)		Volume F	Recovered (bbls)						
Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L?											
Condensate	Volume Re	leased (bbls)		Volume F	Recovered (bbls)						
Natural Gas	Volume Re	leased (Mcf)		Volume F	Recovered (Mcf)						
Other (describe)	Volume/We	ight Released		Volume/W	Veight Recovered						
Cause of Release: Gasket failure on a heated separator.											
Initial Response											
X The source of the r	elease has bee	n stopped.									
X The impacted area	has been secu	red to protect hum	an health and the er	vironment.							
X Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices											
X All free liquids and recoverable materials have been removed and managed appropriately.											

Previously submitted portions of the NMOCD Form C-141 are available on the NMOCD Imaging System.

#### 2.0 SITE CHARACTERIZATION

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half-mile radius of the Site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. Depth to groundwater information is provided as Appendix A.

What is the shallowest depth to groundwater beneath the area affected by the release?	>10	1 feet
Did the release impact groundwater or surface water?	Yes	X No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	Yes	X 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?	Yes	X No
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	Yes	X 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?	Yes	X No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes	X No
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	Yes	X No
Are the lateral extents of the release within 300 feet of a wetland?	Yes	X No
Are the lateral extents of the release overlying a subsurface mine?	Yes	X No
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes	X No
Are the lateral extents of the release within a 100-year floodplain?	Yes	X No
Did the release impact areas not on an exploration, development, production or storage site?	Yes	X No

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted on Figures 1, 2, 4, and 5.

#### 3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater, and NMOCD Siting Criteria, the NMOCD Closure Criteria and NMOCD Reclamation Standards for the Site are as follows:

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
	Chloride (Cl-)	EPA 300.0 or SM4500 Cl B	20,000	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	2,500	100
>101 Feet	Gas Range Organics + Diesel Range Organics (GRO + DRO)	EPA SW-846 Method 8015M	1,000	-
	Benzene	EPA SW-846 Methods 8021b or 8260b	10	10
	Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA SW-846 Methods 8021b or 8260b	50	50

<sup>\*</sup> Measured in milligrams per kilogram (mg/kg)

<sup>†</sup> Table I, Section 19.15.29.12 of the New Mexico Administrative Code (NMAC).

<sup>‡</sup> The NMOCD Reclamation Standard applies only to the top 4' of soil in non-production areas. Section 19.15.29.13 D.(1) NMAC.

#### 4.0 REMEDIATION ACTIVITIES SUMMARY

On June 10, 2024, remediation activities commenced at the Site. In accordance with the NMOCD requirements, impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standards was excavated and stockpiled on-site, pending transfer to an NMOCD-approved surface waste facility for disposal. The floor and sidewalls of the excavation were advanced until field observations and test results suggested that BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria and/or NMOCD Reclamation Standards.

On June 12, 2024, Etech collected seventeen (17) confirmation soil samples (FL 1 @ 3', FL 2 @ 3', FL 3 @ 4', FL 4 @ 3', FL 5 @ 3', EW 1, EW 2, EW 3, NW 1, NW 2, NW 3, SW 1, SW 2, SW 3, WW 1, WW 2, and WW 3). The collected soil samples were submitted to a certified commercial laboratory for analyses of BTEX, TPH, and chloride concentrations. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria and/or the NMOCD Reclamation Standards in each of the submitted soil samples, with the exception of the TPH concentration in samples EW 2 (482 mg/kg), NW 2 (841 mg/kg), SW 2 (293 mg/kg), and WW 2 (522 mg/kg).

On June 17, 2024, Etech collected twenty-seven (27) confirmation soil samples (FL 6 @ 1', FL 7 @ 3', FL 8 @ 3', FL 9 @ 0.5', FL 10 @ 0.5', FL 11 @ 0.5', FL 12 @ 2', FL 13 @ 3', FL 14 @ 3', FL 15 @ 3', FL 16 @ 3', FL 17 @ 4', FL 18 @ 4', FL 19 @ 4', FL 20 @ 4', FL 21 @ 4', FL 22 @ 4', FL 23 @ 4', FL 24 @ 4', FL 25 @ 4', EW 4, NW 4, NW 5, SW 4, SW 5, WW 5, and WW 6). The collected soil samples were submitted to the commercial laboratory for analyses of BTEX, TPH, and chloride concentrations. Analytical results indicated BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria and/or the NMOCD Reclamation Standards in each of the submitted soil samples with the exception of the TPH concentration in samples FL 6 @ 1' (3,360 mg/kg), FL 7 @ 3' (4,710 mg/kg), and FL 19 @ 4' (2,000 mg/kg).

On June 21, 2024, excavation activities resumed at the Site. Etech collected seven (7) confirmation soil samples (FL - 19 @ 5', EW - 2B, NW - 2B, NW 6 @ 4', SW - 2B, WW - 2B, and WW 4). The collected soil samples were submitted to the commercial laboratory for analyses of BTEX, TPH, and chloride concentrations. Analytical results indicated that all submitted soil samples were below the NMOCD Closure Criteria and/or the NMOCD Reclamation Standards for BTEX, TPH, and chloride.

A site and sample location map is provided as Figure 3. A soil chemistry table is provided as Table 1. Field data and soil profile logs, if applicable, are provided as Appendix B. Laboratory analytical reports are provided as Appendix C. A photographic log of the remediation is provided as Appendix D. Sampling notifications are provided as Appendix E. Supplemental C-141 information and maps are provided as Appendix F.

The final dimensions of the excavated area were approximately one-hundred thirty-five (135) feet in length, and approximately 135 feet in width. The excavation ranged from one-half (0.5) feet to five (5) feet in depth. During the course of remediation activities, approximately eight-hundred sixty-six (866) cubic yards of impacted soil were transported to an NMOCD-approved surface waste facility for disposal.

#### 5.0 RESTORATION, RECLAMATION, AND RE-VEGETATION PLAN

Upon receiving laboratory analytical results from confirmation soil samples, excavated areas were backfilled with locally sourced, non-impacted "like" material represented by soil sample Quail Ranch Pit Backfill. Excavation backfill was placed at or near original relative positions. The affected area was compacted and contoured to achieve erosion control, stability, and preservation of surface water flow, to the extent practicable. Affected areas not on production pads and/or lease roads will be reseeded with an agency and/or landowner-approved seed mixture free of noxious weeds during the first favorable growing season following closure of the site.

#### 6.0 SOIL CLOSURE REQUEST

Remediation activities were conducted in accordance with applicable NMOCD regulations. Impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standards was excavated and transported to an NMOCD-approved disposal facility. Laboratory analytical results from confirmation soil samples indicate concentrations of BTEX, TPH, and chloride are below the NMOCD Closure Criteria and/or NMOCD Reclamation Standards.

Based on laboratory analytical results and field activities conducted to date, Etech recommends Permian Resources, provide copies of this *Remediation Summary and Soil Closure Request* to the appropriate agencies and request closure be granted to the Raider Fed Com 101H Site.

#### 7.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this *Remediation Summary and Soil Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in referenced materials and statements. Etech has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Etech has prepared the report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Permian Resources. Use of the information contained in this report is prohibited without the consent of Etech and/or Permian Resources.

#### 8.0 DISTRIBUTION

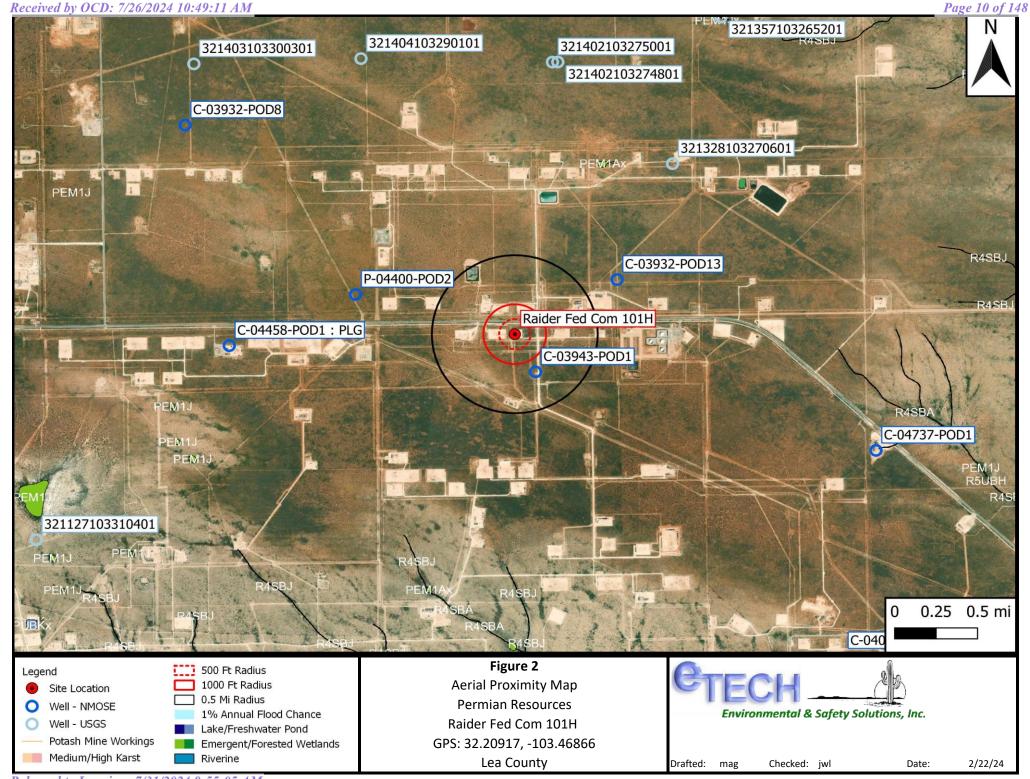
**Permian Resources** 300 N. Marienfeld St. Suite 100 Midland, TX 79701

New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division, District 2 811 S. First Street Artesia, NM 88210

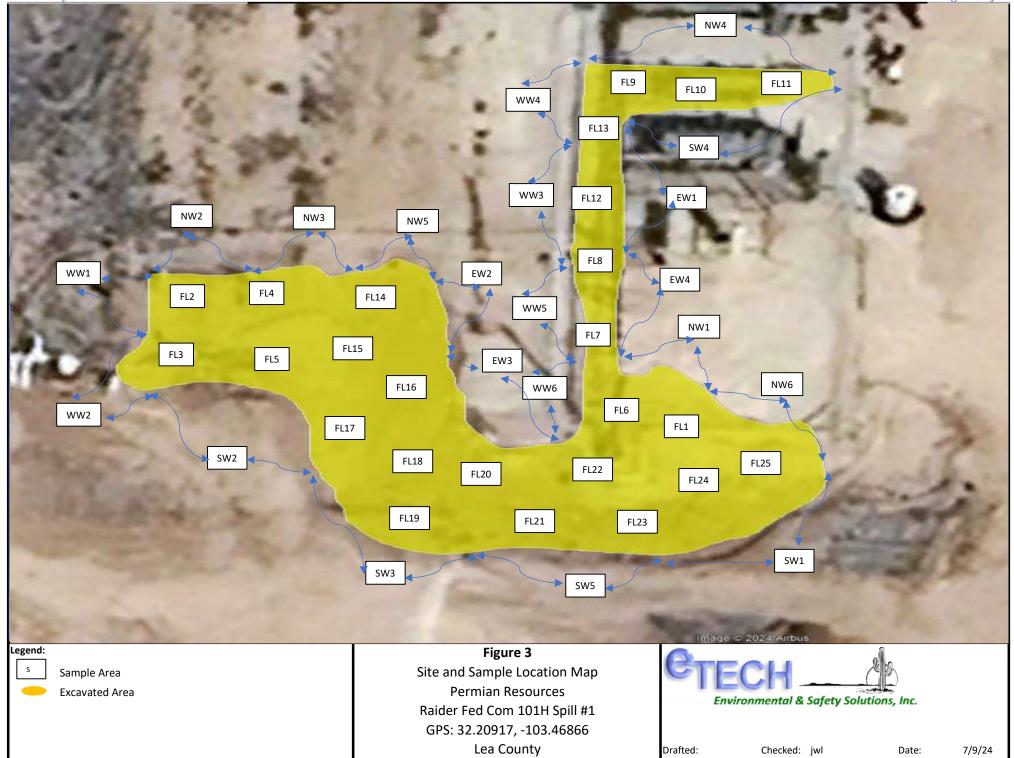
(Electronic Submission)

# Figure 1 Topographic Map

# Figure 2 Aerial Proximity Map



# Figure 3 Site and Sample Location Map



# Table 1 Concentrations of BTEX, TPH, and Chloride in Soil

# Table 1 Concentrations of BTEX, TPH, and Chloride in Soil Permian Resources Raider Fed Com 101H NMOCD Ref. #: nAPP2329024748

				NMOCI	D <b>Ref.</b> #: n	APP2329	024748	1	1	1	
NMO	CD Closure C	riteria		10	50	-	-	1,000	-	2,500	20,000
NMOCD	Reclamation	Standard		10	50	-	-	-	-	100	600
				SW 846	6 8021B		SW	846 8015M	Ext.		4500 Cl
Sample ID	Date	Depth (Feet)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
FL 1 @ 3'	6/13/2024	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 2 @ 3'	6/13/2024	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 3 @ 4'	6/13/2024	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 4 @ 3'	6/13/2024	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	16.0
FL 5 @ 3'	6/13/2024	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	32.0
FL 6 @ 1'	6/17/2024	1	Excavated	< 0.050	< 0.300	53.2	2,720	2,770	591	3,360	<16.0
FL - 6 @ 2'	6/21/2024	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 7 @ 3'	6/17/2024	3	Excavated	< 0.050	< 0.300	131	3,670	3,800	904	4,710	<16.0
FL - 7 @ 4'	6/21/2024	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 8 @ 3'	6/17/2024	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 9 @ 0.5'	6/17/2024	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 10 @ 0.5'	6/17/2024	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 11 @ 0.5'	6/17/2024	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 12 @ 2'	6/17/2024	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 13 @ 3'	6/17/2024	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 14 @ 3'	6/17/2024	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 15 @ 3'	6/17/2024	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 16 @ 3'	6/17/2024	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 17 @ 4'	6/17/2024	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 18 @ 4'	6/17/2024	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 19 @ 4'	6/17/2024	4	Excavated	< 0.050	2.83	117	1,630	1,750	255	2,000	16.0
FL - 19 @ 5'	6/21/2024	5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 20 @ 4'	6/18/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 21 @ 4'	6/18/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 22 @ 4'	6/18/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 23 @ 4'	6/18/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 24 @ 4'	6/18/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 25 @ 4'	6/18/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
EW 1 EW 2	6/13/2024	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EW - 2B	6/13/2024	0-4	Excavated	<0.050	<0.300	<10.0	390	390	91.9	482	<16.0
EW - 2B EW 3	6/24/2024	0-4	In-Situ	<0.050	<0.300		<10.0	<20.0	<10.0	<30.0	32.0
EW 4	6/13/2024 6/18/2024	0-4	In-Situ In-Situ	<0.050	<0.300	<10.0 <10.0	<10.0 <10.0	<20.0 <20.0	<10.0 <10.0	<30.0 <30.0	<16.0 <16.0
NW 1	6/13/2024	_	In-Situ In-Situ	<0.050		<10.0					
NW 2	6/13/2024	0-4	Excavated		<0.300		<10.0	<20.0	<10.0	<30.0	16.0
NW - 2B	6/24/2024	0-4	In-Situ	<0.050 <0.050	<0.300	<10.0	681 <10.0	681 <20.0	160 <10.0	<30.0	16.0
NW - 2B NW 3	6/24/2024		In-Situ In-Situ			<10.0 <10.0		<20.0			16.0
NW 4		0-4 0-1		<0.050	<0.300		<10.0		<10.0	<30.0	<16.0
NW 5	6/18/2024	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NW 6 @ 4'	6/18/2024		In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW 1	6/21/2024	4	In-Situ In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
S W 1	6/13/2024	0-4	111-51tu	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0

 $\label{eq:Dash of Constituent} \textbf{Dash (-): Sample not analyzed for that constituent.}$ 

**Bold:** NMOCD Closure Criteria exceedance.

Table 1 Concentrations of BTEX, TPH, and Chloride in Soil Permian Resources Raider Fed Com 101H NMOCD Ref. #: nAPP2329024748													
NMOCD Closure Criteria         10         50         -         -         1,000         -         2,500         20           NMOCD Reclamation Standard         10         50         -         -         -         -         -         100         6													
NMOCD	NMOCD Reclamation Standard 10 50 100												
				SW 840	6 8021B		SW	846 8015M	Ext.		4500 Cl		
Sample ID	Date	Depth (Feet)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)		
SW 2	6/13/2024	0-4	Excavated	< 0.050	< 0.300	<10.0	240	240	53.0	293	<16.0		
SW - 2B	6/24/2024	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0		
SW 3	6/13/2024	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0		
SW 4	6/18/2024	0-1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	<16.0		
SW 5	6/18/2024	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	<16.0		
WW 1	6/13/2024	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	<16.0		
WW 2	6/13/2024	0-4	Excavated	< 0.050	< 0.300	<10.0	415	415	107	522	<16.0		
WW - 2B	6/24/2024	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	<16.0		
WW 3	6/13/2024	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0		
WW 4	6/21/2024	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0		
WW 5	6/18/2024	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0		
WW 6	6/18/2024	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0		

7/3/2024

Quail Ranch Pit Backfill

N/A

Backfilled

< 0.050

< 0.300

<10.0

<10.0

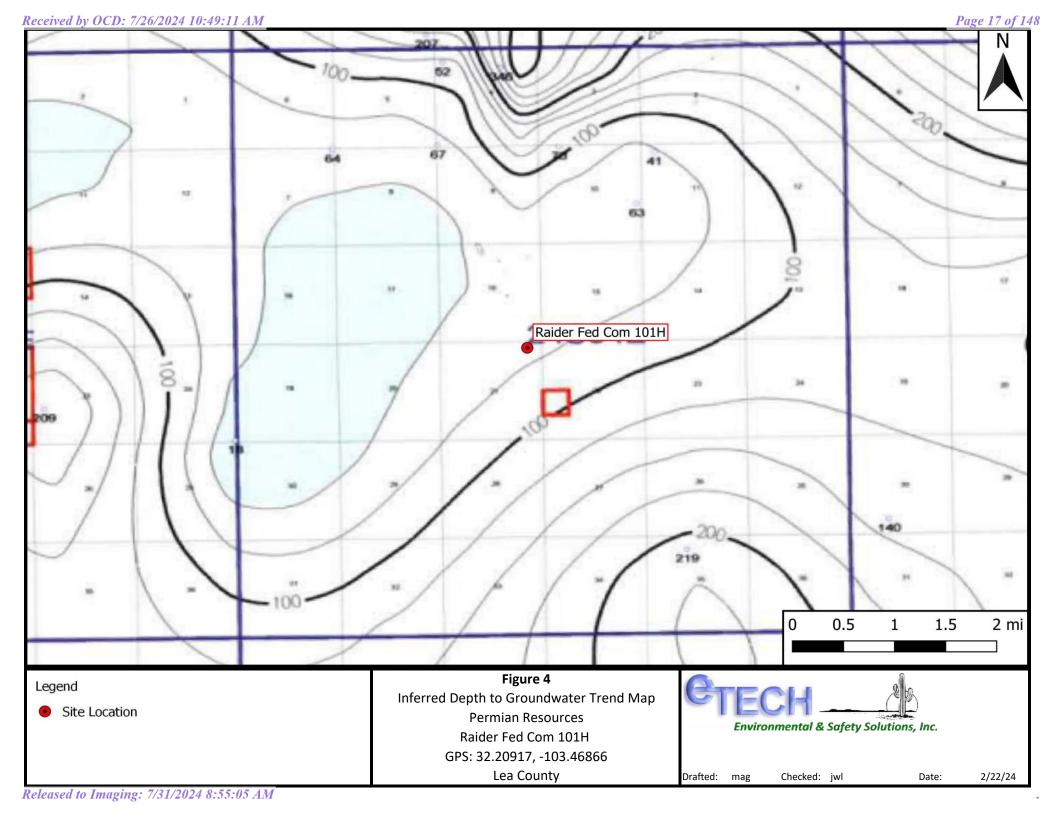
<20.0

<10.0

<30.0

48.0

# Appendix A Depth to Groundwater Information





# New Mexico Office of the State Engineer

# Water Column/Average Depth to Water

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

(R=POD has been replaced, O=orphaned,

C=the file is

closed)

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD

		Sub-		Q	Q	Q								1	Water
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	X	Y	DistanceDep	thWellDep	thWater C	olumn
C 03943 POD1		CUB	LE	2	4	2	21	24S	34E	644523	3564266	432	610	431	179
C 03932 POD13		CUB	LE	4	2	3	15	24S	34E	645314	3565203	1137	90		
P 04400 POD2		P	RO	4	2	1	21	01S	33E	642775	3565051	1597	95		

Average Depth to Water:

431 feet

Minimum Depth:

431 feet

Maximum Depth:

431 feet

Record Count: 3

**UTMNAD83 Radius Search (in meters):** 

**Easting (X):** 644321.39 **Northing (Y):** 3564649.13 **Radius:** 1610

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

2/22/24 8:31 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



# New Mexico Office of the State Engineer

# **Point of Diversion Summary**

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** 

Q64 Q16 Q4 Sec Tws Rng

 $\mathbf{X}$ 

C 03943 POD1

24S 34E

644523 3564266

**Driller License:** 1737 **Driller Company:** 

SHADE TREE DRILLING

**Driller Name:** 

JUSTIN MULLINS

**Drill Finish Date:** 

04/24/2016 Plug Date:

Shallow

Log File Date:

**Drill Start Date:** 

**PCW Rcv Date:** 

**Pump Type:** 

Pipe Discharge Size:

**Estimated Yield:** 

Source:

5 GPM

**Casing Size:** 

6.00

04/21/2016

04/25/2016

Depth Well: 610 feet Depth Water:

431 feet

Water Bearing Stratifications:

**Bottom Description** Top

39

Top 420 431 Sandstone/Gravel/Conglomerate

**Casing Perforations:** 

**Bottom** 

480

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

2/22/24 7:57 AM

POINT OF DIVERSION SUMMARY

PAGE 1 OF 2



## WELL RECORD & LOG

#### OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

	OSE BOD N	TIMBED (II	VELL NUMBER)		<u> </u>		OSE EI	LENII	MBER(S)	==		
Z	C-3943	OMBEK (N	rele nomber)				C-394		mben(e)			
1 12	WELL OWN	IER NAME	(S)	·			PHONE		ONAL)			
S	Bert Mad	dera					575-6	31-4	444			
3	WELL OWN	IER MAILI	NG ADDRESS				CITY			STA	TE	ZIP
VEL.	1108 W.	Pierce					carlsb	oad	t	nm	8822	0
ļ	WELL	<del>- T</del>	DEGREE	S MINUTE	S SECONE	OS .	<u> </u>					
LA	LOCATION	i	ATITUDE 32	12	20.5	N	* ACCI	JRAÇY	REQUIRED: ONE TEN	THOF	A SECOND	
GENERAL AND WELL LOCATION	(FROM G		ONGITUDE 103	27	59.7	· w	* DATI	UM RE	QUIRED: WGS 84			
EN	DESCRIPTIO		G WELL LOCATION TO STREE	T ADDRESS AND COMM	ION LANDMARKS - PLS	S (SECTION, T	OWNSHJIF	, RANG	E) WHERE AVAILABLE			
=	SE 1/4 O	F NE 1/4	4 OF SE 1/4 OF NE	1/4 Of Section 2	1, T24S, R34E							
F	LICENSE N	UMBER	NAME OF LICENSED	DRILLER					NAME OF WELL DR	ILLIN	G COMPANY	
	WD-173	7	Justin Mullins						WRR			
	4-21-16	STARTED	DRILLING ENDED 4-24-16	DEPTH OF COMPLET	TED WELL (FT)	BORE HO	LE DEPTI	I (FI)	DEPTH WATER FIRS	ST ENG	COUNTERED (FT)	,
z	COMPLETE	D WELL IS	artesian	C DRY HOLE	SHALLOW (UNC	ONFINED)			STATIC WATER LEV	ÆL IN	COMPLETED WE	LL (FT)
110	DRILLING	FLUID:	€ AIR	C MUD	ADDITIVES - SPI	ECIFY:			<u> </u>			
₩₩	DRILLING METHOD: ROTARY C HAMMER C CABLE TOOL C OTHER - SPECIFY:											
10.	<u>=</u>	(feet bgl)			ERIAL AND/OR	1			T avanya	T		
<u>N</u>	FROM	TO	DOKE HOLE	GR.	GRADE		ASING NECTIO	N	CASING INSIDE DIAM.		SING WALL HICKNESS	-SLOT _SIZE
2. DRILLING & CASING INFORMATION			(inches)		(include each casing string, and note sections of screen)				(inches)		(inches)	(inches)
(C)	0	40'	14 3/4"	12" steal		weld			12"	1/4	4"	G)
١٧	40	420	11"	6" steal		weld			6"	1/4	4" ·	Tryse estas i grigos
[ ]	420'	480'	11"	6" steal		weld			6"	1/4	4" 😘 📖	<u>1</u> /8"
DRI	480'	610	11"	6" steal		weld			6"	1/4	4"	<b>=</b>
12												7
		<u> </u>			·						<u> </u>	 33
										<u> </u>		
						<u> </u>				ļ		
		-								<u> </u>		
		<u> </u>				<u> </u>				<u> </u>		<u> </u>
	DEPTH	(feet bgl)	20.02		NULAR SEAL MA				AMOUNT		метно	
IAL	FROM	ТО	DIAM. (inches)		ACK SIZE-RANG	E BY INTE	RVAL		(cubic feet)		PLACEM	IENT
l ER	0'	40'	14 3/4"	portland cem	ent				13.38'		hand	
MA	20'	610'	11"	1/2" gravel					253.5'		hand	
AR	0'	20'	11"	portland cem	ent				11.1'		hand	
<b>]</b>												
ANNULAR MATERIAL												
٠.												
L	<u> </u>			<u> </u>								
FOR	OSE INTER						,,	WR-2	0 WELL RECORD &			8/2012)
FILI	E NUMBER		1-3943		POD NUMBER	1	1	TRN 1	NUMBER 5	2	5607	

LOCATION

PAGE 2 OF 2

	DEPTH (	<u> </u>	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES	WATER BEARING?	ESTIMATED YIELD FOR WATER-				
	FRÓM	TO	(1661)	(attach supplemental sheets to fully describe all units)	(YES / NO)	BEARING ZONES (gpm)				
	0'	8'	8'	top soil	CY 6 N					
	8	25'	17'	caliche	CYEN	<u> </u>				
	25'	39'	14'	red clay	CYEN	<u> </u>				
	39'	431'	392'	sand stone	€Y C N	5+				
	431'	610'	179'	sand stone	CYEN					
د ا					CYCN					
4. HYDROGEOLOGIC LOG OF WELL					CYCN					
OF V					CYCN					
50					CYCN					
CL					CYCN					
00		<u> </u>			CYCN					
EOI					CYCN					
806			<del></del>		CYCN					
[QXI	<u> </u>		<u> </u>		CYCN					
4.4					$C^{Y}$					
ĺ					CYCN					
	<del></del>		<del></del>		CYCN					
					CYCN	172				
	<u> </u>				CY CN	The second secon				
	<u> </u>				CYCN	57.				
(	· · · · · · · · · · · · · · · · · · ·		<del></del>		CYCN	<u>-</u>				
	METHOD U	JSED TO ES	TIMATE YIELD	OF WATER-BEARING STRATA: PUMP TOT	TAL ESTIMATED	1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1				
	• AIR LIF	т С	BAILER C	OTHER – SPECIFY:	ELL YIELD (gpm):	5+11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1				
						Tay and				
NOIS	WELL TES	T TEST	RESULTS - ATT I' TIME, END TII	ACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUD ME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER TE	ING DISCHARGE N IE TESTING PERIC	METHOD, D. —				
\$VIS	MISCELLA	NEOUS INF	ORMATION:							
S. TEST; RIG SUPERVI										
GSI										
i; RI										
resi	PRINT NAN	AE(S) OF DE	RILL RIG SUPER	VISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRU	ICTION OTHER TH	AN LICENSEE:				
'n										
			<b></b>							
E	THE UNDE	RSIGNED H RECORD OI	IEREBY CERTIF F THE ABOVE D	TES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, T DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECOI	HE FOREGOING IS RD WITH THE STA	A TRUE AND TE ENGINEER				
SIGNATURE				0 DAYS AFTER COMPLETION OF WELL DRILLING:						
NA	7	\ ,	· M							
6. SIC	Questino Vallano Justin Mollins 4-24-16									
9		SIGNATI	URE OF DRILLE	R / PRINT SIGNEE NAME	DATE					
FOR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 06/08/2012)										
	E NUMBER	NAL USE	-39U		58500 (Ve					

LOCATION



## New Mexico Office of the State Engineer

# **Point of Diversion Summary**

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number Q64 Q16 Q4 Sec Tws Rng

X

X

C 03932 POD13

15 24S 34E

314 3565203

3

**Driller License:** 1222

**Driller Company:** 

PETERSON DRILLING & TESTING INC.

**Driller Name:** LEE PETERSON

**Drill Start Date:** 02/10/2016

**Drill Finish Date:** 

02/11/2016

Plug Date:

Log File Date:

**Casing Size:** 

03/01/2016

**PCW Rcv Date:** 

Depth Well:

Source:

Pump Type: Pipe Discharge Size:

90 feet

Depth Water:

**Estimated Yield:** 

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, or suitability for any particular purpose of the data.

2/22/24 8:31 AM

POINT OF DIVERSION SUMMARY



# WELL RECORD & LOG

#### OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

N O	OSE POD NU		ELL NUMBER)					OSE FILE NUT	MBER(S)			
AND WELL LOCATION	WELL OWN		•		D II II-14			PHONE (OPTI	ONAL)			
077	WELL OWN		rkhill, Smith & Coo	per Attention:	K.H. Holder			CITY		STATE		ZIP
WEL	4222 85th	Street						Lubbock		Texas	79423	
N N	WELL		D	EGREES	MINUTES	SECO						
RAL,	LOCATIO (FROM GE		ATITUDE	32	12	50.	11	* ACCURACY REQUIRED: ONE TENTH OF A SECOND  * DATUM REQUIRED: WGS 84				
GENERAL		LO	ONGITUDE ING WELL LOCATION TO	103	27 S AND COMMON			S (SECTION, TO	WNSHIIP RANGE) WH	ERE AVAII	LABLE	
1.6			of NW 1/4 of SE 1/4								-	
	LICENSE NU		NAME OF LICENSEL		ee Peterson				NAME OF WELL DRI			0
	WD-		DRILLING ENDED	DEPTH OF COMPI		Γ)	BORE HOI	LE DEPTH (FT)	DEPTH WATER FIRS		Testing, In	
	02/10		02/11/16					90'			• •	
Z	COMPLETE	D WELL IS:	ARTESIAN	DRY HOLE	SHALLO	W (UNCC	NFINED)		STATIC WATER LEV	EL IN CON	APLETED WE	ELL (FT)
ATIO	DRILLING F	LUID:	✓ AIR	MUD MUD	ADDITIV	ES – SPE	CIFY:					
ORM	DRILLING M	ŒTHOD:	ROTARY	HAMMER	CABLE T	OOL	🗆 отне	R – SPECIFY:		,		
N.		(feet bgl)	BORE HOLE		CASING MATERIAL AND/OR CA GRADE CONN			ASING	CASING	1	IG WALL CKNESS	SLOT SIZE
CASING INFORMATION	FROM TO DIAM (inches)				(include each casing string, and note sections of screen)				INSIDE DIAM. (inches)	l .	(inches) (i	
3 & C												
DRILLING &					•						<u>~</u>	-49 
DRII											-KW42 	
7,												of the second
								<u></u>			dispera	
											===	and the second
											Ŋ	
			<u> </u>							<u>                                     </u>	Pro-is in primite	
1		(feet bgl)	BORE HOLE DIAM. (inches)	1	ANNULAR SE L PACK SIZE-				AMOUNT (cubic feet)		METHO: PLACEM	
ANNULAR MATERIAL	FROM	ТО		3					(			
MAT												
AR												
ION							<del></del>					
3, A.												
	OSE INTER	NAL USI	2022				TA		0 WELL RECORD &	ŁOG (V		
├	ATION	711	5 31/T	211.	POD NU	MBER	.13	TRN 1	NUMBER .	וצר	433	1 OF 2
LUC	ALION	<u> </u>	J. JYE.	J. 70	<u></u>				<u> </u>		FAUE	I OF Z

	DEPTH (f	eet bgl)		COLOR AND TYPE OF MATERIAL ENCOUNTERED -	WATER	ESTIMATED					
	FROM	то	THICKNESS (feet)	INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONE (attach supplemental sheets to fully describe all units)		YIELD FOR WATER- BEARING ZONES (gpm)					
	0	6	6	Light Reddish Brown Fine Sand	Y VN						
	6	13	7	Light Reddish Brown Sand with Caliche	Y ✓N						
	13	· 19	6	Light Reddish Brown Fine Sand	Y ✓N						
	19	29	10	Tan-White Caliche with Light Reddish Brown Sand	Y ✓N						
	29	39	10	Light Reddish Brown Sand	Y ✓N						
<b>-</b> į	39	45	6	Gray to Dark Gray Sand	Y ✓N						
WEL	45	54	9	Gray-Dark Gray Sand with Sandstone Pebbles	Y ✓N						
9	54	55	1	Dark Reddish Brown to Light Reddish Brown Silty Claystone	Y ✓N						
50	55	-58	3	Green to Gray Shale	Y ✓N						
NC I	58	62	4	Dark Reddish Brown Silty Claystone	Y ✓N						
507	62	74	12	Dark Reddish Brown Claystone	Y ✓N						
EO	74	75	1	Light Brown to Gray Silty Clay	Y ✓N						
ROC	75	77	2	Dark Reddish Brown Claystone	Y. <b>✓</b> N						
4, HYDROGEOLOGIC LOG OF WELL	77	79	2	Light Brown to Gray Silty Clay	Y ✓N						
4	79	80	1	Dark Reddish Brown Claystone	Y ✓N						
Ì	80	82	2	Light Brown to Gray Sandy Silt	Y ✓N						
·	82	87	5	Dark Reddish Brown Clayey Silt	Y ✓N						
Ì	87	90	3	Light Brown to Gray Silty Sand	Y N						
ŀ					Y N						
ŀ					Y N						
İ					Y N						
Ì	METHOD U	SED TO ES	STIMATE YIELD	OF WATER-BEARING STRATA:	TOTAL ESTIMATED	<u>,                                      </u>					
	PUMI	> □A	IR LIFT	BAILER OTHER – SPECIFY:	WELL YIELD (gpm):	0.00					
	1 01/11		, ••••		·						
SION	WELL TES			ACH A COPY OF DATA COLLECTED DURING WELL TESTING, IN ME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OV							
RVIS	MISCELLA	NEOUS IN	FORMATION: BO	oring location drilled only as a soil boring and plugged after comp	letion per well plugging	plan.					
JPE]						-					
S SI											
; <u>S</u>											
TEST; RIG SUPERVI	PRINT NAM	ME(S) OF D	RILL RIG SUPER	VISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CO	ISTRUCTION OTHER T	HAN LICENSEE:					
ry.											
					- · · · · · · · · · · · · · · · · · · ·						
E	THE UNDER	RSIGNED I	HEREBY CERTIF	TES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BEL DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL I	IEF, THE FOREGOING I	S A TRUE AND					
2	AND THE P	ERMIT HO	LDER WITHIN 2	0 DAYS AFTER COMPLETION OF WELL DRILLING:		II D DIVOITIDDIV					
SIGNATURE											
SIG		1 1	WIL	- 1 ble Verbeson/	2/26/16						
	·X	$\wedge$	<del>_~~~</del>		-10-110						
٠ و		SIGNAT	URE OF DRILLE	R / PRINT SIGNEE NAME	DATE	• .					

POD NUMBER

TRN NUMBER

PAGE 2 OF 2

FILE NUMBER

Tom Blaine, P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

#### STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr: File Nbr: 581433 C 03932

Well File Nbr: C 03932 POD13

Mar. 28, 2016

ROBERT H HOLDER BRYCE KRAGER 4222 85TH ST LUBBOCK, TX 79423

Greetings:

The above numbered permit was issued in your name on 01/27/2016.

The Well Record was received in this office on 03/01/2016, stating that it had been completed on 02/11/2016, and was a dry well. The well is to be plugged or capped or otherwise maintained in a manner satisfactory to the State Engineer.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 01/14/2017.

If you have any questions, please feel free to contact us.

Sincerely,

Deborah Dunaway (575) 622 - 6521

drywell



# WELL RECORD & LOG

#### OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

									<del></del>		
	OSE POD NU	JMBER (WE	LL NUMBER)					OSE FILE NU	MBER(S)		
NO.	S15-BH-0	3						C 03932			
Į.	WELL OWN	ER NAME(S	)					PHONE (OPTI	ONAL)		
200	Bryce Kra	ger % Par	khill, Smith & Coop	er Attention: 1	R.H. Holder						
Ä	WELL OWN	ER MAILING	G ADDRESS				<del></del> -	CITY	<del></del>	STATE	ZiP
	4222 85th							Lubbock			123
≱	1222 0541							Luotock		10xu3 77-	123
S	WELL	}	DE		MINUTES	SECO	NDS				
17	LOCATIO	ON LA	TITUDE	32	12	50.	55 N	* ACCURACY	REQUIRED: ONE TEN	TH OF A SECOND	ı
<b>8</b>	(FROM G	PS)	NGITUDE	103	27	28.	96 w	* DATUM RE	QUIRED: WGS 84		
GENERAL AND WELL LOCATION	DECCRIPTI		NG WELL LOCATION TO					C (CECTION TO	Whitelian by the state and	CDT AND ADA	<del></del>
9								S (SECTION, TC	wnshiip, kangej wh	IERE AVAILABLE	•
-	SW 1/4 of	'SW 1/4 o	fNW 1/4 of SE 1/4	of Section 15, T	ownship 24	S, Rang	e 34E				
	LICENSE NU	IMBER	NAME OF LICENSED	DRILLER	···				NAME OF WELL DR	ILLING COMPAN	Υ
:	WD-				e Peterson					Drilling & Testi	
	DRILLING S		DRILLING ENDED	DEPTH OF COMPL		-T	DODE HO	LE DEPTH (FT)	DEPTH WATER FIR:		
	02/10		02/11/16	DEPTH OF COMPL	EIED MELL (1	.1)		90'	DEPTH WATERFIRE	STENCOUNTERE	D (F1)
ļ	02/10	U/ 1 <b>0</b>	02/11/16					90			
	00) 01 505	DATE IN	ARTESIAN	DRY HOLE	SHALLO				STATIC WATER LEV	EL IN COMPLET	ED WELL (FT)
N	COMPLETE	D WELL 18:	I_! ARTESIAN	LE DRY HOLE	(; SHALLC	JW (UNCO	NFINEU)				
Ĕ	DRILLING F	LUID:	✓ AIR	MUD	ADDITI	VES – SPE	CIFY:				
DRILLING & CASING INFORMATION	DRILLING N	ÆTUAD.	ROTARY	HAMMER	CABLE	TOOL	OTA	R - SPECIFY	<del></del> -	·	
O.			E. KOTAKT				U.J. OTHE	K-SPECIF I			
Z	DEPTH	(feet bgl)	BORE HOLE	CASING MA	TERIAL AN RADE	D/OR	CA	ASING	CASING	CASING WA	ALL SLOT
NG	FROM TO DIAM (include each casing string, and							NECTION	INSIDE DIAM.	THICKNE	
ASI		(inches) (in					YPE	(inches)	(inches)	(inches)	
k C											
20				<del>                                     </del>							550
Ħ	<del> </del>	<del>                                     </del>		<del> </del>				*00			read
7. D	ļ——	-		<del> </del>					<del>                                     </del>		
7				<u> </u>							
				ļ							# + 1.08 5.00
				ļ							
				<u> </u>	· · · · · · · · · · · · · · · · · · ·					:	-1.5
										F	
		L									
	ревти	(feet bgl)	DODE WOLF	LICT	NNULAR S	EAL MAA	TEDIAL A	ND.	AMOUNIT	7.00	
T			BORE HOLE DIAM. (inches)	1	. PACK SIZE				AMOUNT (cubic feet)	l l	ETHOD OF ACEMENT
RIA	FROM	ТО		GIGTTE					(Cable feet)		
TE				<u> </u>							
MA ]		ļ <u> </u>		ļ	·····						
A.R.											
NF.											
ANNULAR MATERIAL											
3. A											
		L.———		L					<u> </u>		
-	OSE INTER	NAL USE	2021			n.cs=-	7-3		WELL RECORD &		
<b>-</b>	NUMBER	<u> </u>	272	<del></del>	POD NI	JMBEK	13	TRN	NUMBER .		33
LOC	ATION	<u> </u>	5.3461	<u>5.3.2</u>	<u>•4</u>				EXPL	P	AGE 1 OF 2

	DEPTH (feet bgl)		COLOR AND TYPE OF MATERIAL ENCOUNTERED -			WATER	ESTIMATED		
	FROM	то	THICKNESS (feet)	INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)		BEARING? YES / NO)	YIELD FOR WATER- BEARING ZONES (gpm)		
	0	6	6	Light Reddish Brown Fine Sand		Y ✓ N			
	6	13	7	Light Reddish Brown Sand with Caliche		Y ✓N			
	13	19	6	Light Reddish Brown Fine Sand		y ✓N			
	19	29	10	Tan-White Caliche with Light Reddish Brown Sand		Y ✓N			
	29	39	10	Light Reddish Brown Sand		Y ✓N			
占 [	39	45	6	Gray to Dark Gray Sand		Y ✓N			
HYDROGEOLOGIC LOG OF WELL	45	54	9	Gray-Dark Gray Sand with Sandstone Pebbles		Y ✓N			
0	54	55	1	Dark Reddish Brown to Light Reddish Brown Silty Claystone		Y ✓N			
OG	55	58	3	Green to Gray Shale		Y ✓N			
);	58	62	4	Dark Reddish Brown Silty Claystone		Y ✓N			
9	62	74	12	Dark Reddish Brown Claystone		Y √N	·		
3EO	74	75	1	Light Brown to Gray Silty Clay		Y ✓N			
ROC	75	77	2	Dark Reddish Brown Claystone		Y /N			
	77	79	2	Light Brown to Gray Silty Clay		Y ✓N			
4. ∤	79	80	1	Dark Reddish Brown Claystone		Y √N			
Ì	80	82	2	Light Brown to Gray Sandy Silt		Y ✓N			
Ì	82	87	5	Dark Reddish Brown Clayey Silt		Y √N			
İ	87	90	3	Light Brown to Gray Silty Sand		Y N			
İ				<u> </u>		y N			
İ						Y N			
İ						Y N	<u> </u>		
-	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: TO								
	PUMP AIR LIFT BAILER OTHER - SPECIFY:						0.00		
	LIVOR LINEAR LOTTICK-SEERLE.								
SION	WELL TES	TEST STAR	RESULTS - ATT. T TIME, END TII	ACH A COPY OF DATA COLLECTED DURING WELL TESTING, INC ME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OV	CLUDING I ER THE TE	DISCHARGE I	METHOD, DD.		
VIS	MISCELLANEOUS INFORMATION: Boring location drilled only as a soil boring and plugged after completion per well plugging plan.								
PER	Boring location drilled only as a soil boring and plugged after completion per well plugging plan.								
ns s									
R.	· · · · · · · · · · · · · · · · · · ·								
TEST; RIG SUPERVI	DD INIT NAM	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:							
5. T	I KINI NAIV	IL(3) Ol. D	MEE MIG SUI EN		SIKUCIK	ON OTHER TE	TAN LICENSEE.		
녀				IES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELI ESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL R					
SIGNATURE				0 DAYS AFTER COMPLETION OF WELL DRILLING:					
NA.	1	'	\	0	1	1			
6. SIG	$\langle \gamma \rangle$	人人	KIK	" I WE VETURSON	212	26/1h			
9		SIGNAT	URE OF DRILLE	R / PRINT SIGNEE NAME	/-	DATE			

POD NUMBER

TRN NUMBER

PAGE 2 OF 2

FILE NUMBER

LOCATION

Tom Blaine, P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

# STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr:

581433

File Nbr:

C 03932

Well File Nbr: C 03932 POD13

Apr. 12, 2016

ROBERT H. HOLDER BRYCE KARGER 4222 85TH ST. LUBBOCK, TX 79423

#### Greetings:

The above numbered permit was issued in your name on 01/27/2016.

The Well Record was received in this office on 03/01/2016, stating that it had been completed on 02/11/2016, and was a dry well. The well is to be plugged or capped or otherwise maintained in a manner satisfactory to the State Engineer.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 01/14/2017.

If you have any questions, please feel free to contact us.

Sincerely,

Deborah Dunaway (575)622-6521

drywell



# New Mexico Office of the State Engineer

# **Point of Diversion Summary**

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** Q64 Q16 Q4 Sec Tws Rng  $\mathbf{X}$ 

P 04400 POD2 2122A

21 01S 33E

642775 3565051

**Driller Company:** L & J WELL SERVICE, INC.

**Driller Name:** LARRY JEWELL

1106

**Drill Start Date:** 03/14/2023

5.00

**Drill Finish Date:** 

03/15/2023

Plug Date:

Shallow

Log File Date: **Pump Type:** 

**Casing Size:** 

**Driller License:** 

04/05/2023

**PCW Rcv Date:** 

Source:

Pipe Discharge Size: **Estimated Yield:** Depth Well: 95 feet Depth Water:

Water Bearing Stratifications: **Bottom Description** Top

> 78 93 Sandstone/Gravel/Conglomerate

**Casing Perforations: Bottom** Top

> 75 95

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

2/22/24 8:31 AM

POINT OF DIVERSION SUMMARY



## WELL RECORD & LOG

## OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

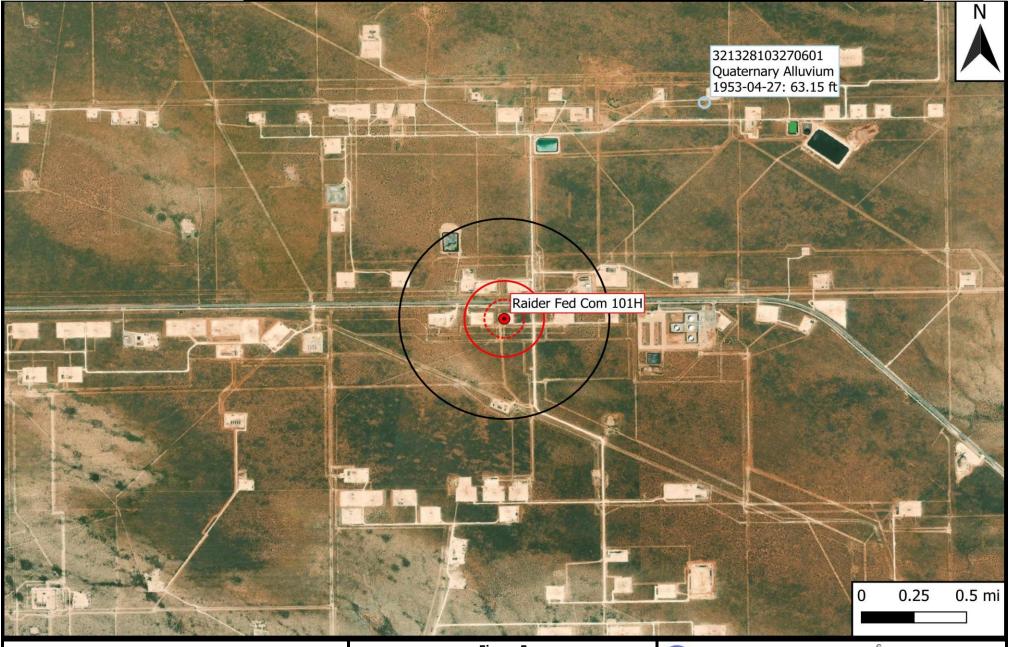
OSE OTT APR 5 2023 AMB/31

OSE POD NO. (WELL NO.)  P-4400 - POD-2  WELL TAG ID NO. 2122A							OSE FILE NO(S). P-4400			
WELL OWNI							PHONE (OPTIONAL)			
WELL OWNI							CITY PORTALES		STATE NM 88130	ZIP
WELL			GREES 1	24 12 40.26		* ACCURACY	REQUIRED: ONE TEN	TH OF A SECOND		
(FROM GP	S)	TITUDE NGITUDE	103	29	05.55	W	* DATUM REC	QUIRED: WGS 84		
DESCRIPTION 2651 S. RC		NG WELL LOCATION TO LT RD. 3	STREET ADDRESS	AND COMMON	LANDMARK	S – PLS	SS (SECTION, TO	WNSHJIP, RANGE) WH	IERE AVAILABLE	
LICENSE NO		NAME OF LICENSED	DRILLER WELL SERVIC	E INC. / LA	RRY E. JE	WEL	L	NAME OF WELL DR L & J V	ILLING COMPANY VELL SERVICE INC	
DRILLING S		DRILLING ENDED 3-15-2023	DEPTH OF COMPL	ETED WELL (F	T) BO	RE HO	LE DEPTH (FT)	DEPTH WATER FIR	ST ENCOUNTERED (FT N/A	)
COMPLETE	WELL IS:	ARTESIAN *add Centralizer info bel		SHALLO	W (UNCONFI	NED)		WATER LEVEL PLETED WELL 8	DATE STATIC	MEAS
DRILLING FLUID: AIR MUD ADDITIVES – SPECIFY:										
DRILLING METHOD: ROTARY HAMMER CABLE TOOL OTHER - SPECIFY:  CHECK HERE IF PITLESS ADAPTER IS INSTALLED										
DEPTH (feet bgl) BORE HOLE FROM TO DIAM		GRADE CONN		ASING NECTION TYPE	CASING INSIDE DIAM.	CASING WALL THICKNESS	SI S (in			
+2	75	(inches)		note sections of screen) SCHED. 40 PVC		(add coupling diameter) SPLINE/ 5 3/4		(inches)	(inches)	I N
75					NE/ 5 3/4	5	.250			
									<u>.</u>	
DEPTH	DEPTH (feet bgl) BORE HOLE			LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE- RANGE BY INTERVAL		L PACK SIZE-	AMOUNT		METHOD OF PLACEMENT	
FROM 0	TO 20	9 7/8	*(if using Central		ian wells- ind	cate th	e spacing below)	) (caste rees)		VITY
20	95	9 7/8			ED GRAVE	L	31		GRA	
				= =						
OCE DETER	NAL LIGH						W/D 2	0 WELL RECORD	& LOG (Version 09/	22/201
OSE INTER	4409	0		POD NO	, ,		TRN 1	•	2 LOG (VEISION 09/	221202

PAGE 2 OF 2

	DEPTH (feet bgl) THICKNESS (feet)			COLOR AND TYPE OF MATERIAL ENCOUNTERED INCLUDE WATER-BEARING CAVITIES OR FRACTURE	DRIBBIGO	ESTIMATED YIELD FOR WATER-			
	FROM	ТО	(feet)	(attach supplemental sheets to fully describe all units	201125	BEARING ZONES (gpm)			
	0	3	3	TOP SOIL BROWN	Y VN				
	3	10	7	CAKICHE WHITE	Y VN				
	10	25	15	CLAY RED	Y VN				
	25	35	10	SAND BROWN	Y VN				
	35	47	12	CLAY TAN	Y VN				
Į	47	60	13	SAND BROWN	Y VN				
4. HYDROGEOLOGIC LOG OF WELL	60	70	10	CLAY TAN	Y VN				
5	70	78	8	ROCK WHITE	Y VN				
3	78	93	15	SAND & GRAVEL RED	✓ Y N				
	93	95	2	RED & BLUE CLAY	Y VN				
3					Y N				
					Y N				
2					Y N				
		3.3			Y N				
+					Y N				
ł					Y N				
t					Y N				
ł					Y N				
ł					Y N				
1					Y N				
+					Y N				
ŀ	METHOD U	SED TO E	STIMATE YIELD	OF WATER-BEARING STRATA:	TOTAL ESTIMATED	Later			
	PUMP		WELL YIELD (gpm):						
	WELL TEST  TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.								
LEST; KIG SUPERVISION		0,535							
, K	MISCELLAN	IEOUS IN	FORMATION: N/A	ON WATER FIRST ENCOUNTERED DUE TO DRILLI	NG WITH MUD				
OLE									
5					OSE 011 APR 5 2023 A	48:31			
1;									
	$PRINT\ NAME(S)\ OF\ DRILL\ RIG\ SUPERVISOR(S)\ THAT\ PROVIDED\ ONSITE\ SUPERVISION\ OF\ WELL\ CONSTRUCTION\ OTHER\ THAN\ LICENSEE:$								
'n	DUSTIN WILLIAMSON								
KE	CORRECT R	ECORD C	F THE ABOVE D	ES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AN ESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS W DAYS AFTER COMPLETION OF WELL DRILLING:	D BELIEF, THE FOREGOING VELL RECORD WITH THE ST	IS A TRUE ANI ATE ENGINEEI			
AIL	AND THE P	ACOUNT IIC	WITHIN SC	STATE AT LESS COME DE TION OF WELL DRILLING.					
SIGNATURE	X	5	Lool	LARRY E. JEWELL	4-4-2023				
6. S									

LOCATION Dom 01.33.21.22]





Site Location

O Well - USGS

500 Ft Radius
1000 Ft Radius

☐ 0.5 Mi Radius

#### Figure 5

USGS Well Proximity Map Permian Resources Raider Fed Com 101H GPS: 32.20917, -103.46866 Lea County





**Environmental & Safety Solutions, Inc.** 

Drafted: mag

Checked: jwl

Date:

2/22/24



USGS Home Contact USGS Search USGS

#### **National Water Information System: Web Interface**

USGS Water Resources	Data Category:	Geographic Area:		
0505 Water Resources	Groundwater <b>∨</b>	United States	~	GO

Click for News Bulletins

Groundwater levels for the Nation

Important: <u>Next Generation Monitoring Location Page</u>

#### Search Results -- 1 sites found

**Agency code** = usgs **site\_no list** = • 321328103270601

Minimum number of levels = 1

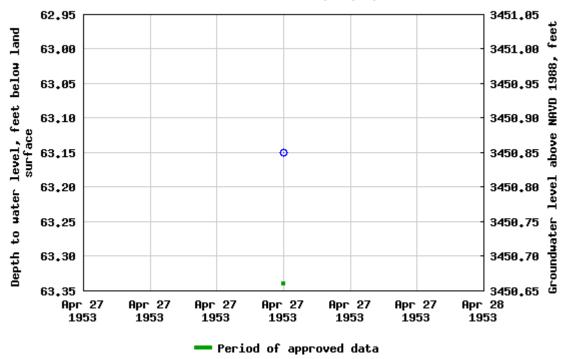
Save file of selected sites to local disk for future upload

#### USGS 321328103270601 24S.34E.10.42243

Available data for this site	Groundwater:	Field measurements	<b>→</b> GO	
Lea County, New Mexico				
Hydrologic Unit Code 1307	0007			
Latitude 32°13'28", Longit	tude 103°2	7'06" NAD27		
Land-surface elevation 3,5	14 feet abo	ve NAVD88		
The depth of the well is 93	feet below	land surface.		
This well is completed in the	ne Other aq	uifers (N9999OTh	HER) natio	nal aquifer.
This well is completed in the	ne Ogallala	Formation (1210	GLL) local	aquifer.

# Table of data Tab-separated data Graph of data Reselect period





Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u>

Questions or Comments
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility

FOIA

Privacy

Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey

**Title: Groundwater for USA: Water Levels** 

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2024-02-22 09:55:13 EST

0.58 0.51 nadww01



# Appendix B Field Data and Soil Profile Logs



## Sample Log

Date:	

D	rai	-	+.
М	ΙUΙ	ec	L.
Г	roj	CC	ι.

Raider Fed Com 101H Spill #1/Spill#2

Project Number: 19870 Lati

Latitude:	32.20917	Longitude:	-103.46866
-----------	----------	------------	------------

Sample ID	PID/Odor	Chloride Conc.	GPS
54)-1	-	352	
NW-1	-	436	
## EW-1	19:5-	476	
F2-103'	~	884	
SW-2	-	528	
NW-2	-	352	
EW-2	enge.	J92	
W W-1		528	1100
FL-2 03'	-	952	
SW-3		716	
NU-3	4	228	*
WW-2	44	528	
EW-3 FL-3 @4' FL-4@7' FL-5@7'	24	392	
FL-3 @4'	29	884	
1-2-407'	3	736	
FL-507'	-5	392	
1:11) - <	9	980	
FL-601	~	476 480	
FL-7 @3'	~~	480	· ·
FL-807'	-	728	
Fl-906"	7-	392	
F2-10 @C1	-	436	
FL-1106"		292	
1.6-12062		528	
FC-17a2'		480 580	8 .
FC-140B'	_	580	
FL-807' FL-906" FL-1066" FL-1106" FL-12062' FL-1408' FL-1408' FL-1503'	-	580	9
T 1 - 1 ( ) ( ) ( )		194	
FL-17@91	-	528	
FL-17@4' FL-18@4'	-	284	
FC-19 04		392	
WW-61	ears,	292	
NU-4	Quightin,	590	
SW-9	gar.	528	
NU-5	-	N/O	
SU-5	<b>K</b> irps	292	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc



Test Trench = TT #1 @ ##

Soil Intended to be Deferred = SP #1 @ 4' In-Situ

Refusal = SP #1 @ 4'-R

Resamples= SP #1 @ 5b or SW #1b

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas

Released to Imaging: 7/31/2024 8:55:05 AM



## Sample Log

		Date:	
Project:			
Project Number:	Latitude:	Longitude:	

Sample ID	PID/Odor	Chloride Conc.	GPS
WW-S	-	392	
112-le	-	2 92	
1-20 69'		352	
-6-21 09'	· constitue	528	
1-2204'	*****	436	
-1-23041	and the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of th	392	
2-2404	-	480	
FL-25@4'	_	292	
U1)-6	-	580	
VEW-2B		149	
W-2B	gáis	392	
-U-213	dir.	144	
JU-2B	405-	480	
1-104'	cup	7 5 m	
1-1.62	450	580	
-1-1965'	ugs.	292	
		,	
Sample Point = SP #1 @ ## etc		Test Trench = TT #1 @ ##	Resamples = SP #1 @ 5b or SW #1b
Floor = FL #1 etc		Refusal = SP #1 @ 4'-R	Stockpile = Stockpile #1
Sidewall = SW #1 etc		Soil Intended to be Deferred = SP #1 @ 4' In-Situ	GPS Sample Points, Center of Comp Area
			5. 5 Jampie Forms, Center of Comp Area





## **Remediation Log**

ject Number:	Latitude:	32.20917	_Longitude:	-103.4	46866
				Yes	No
Confirmation of Act	ive One Call? One Call No				· 🗆
Confirmation of On-		8			
					Ц
Date:	Note	s		Yo	ds
	****Begin Remediation Act	civities***		Out	In
(-14-24	Haul out			520	9
4-19-24	Houl out			440	
6-21-24	Houlin	*	e.		280
1-29-29	Haseh in			ety.	520
4-25-29	Hesol in			7	162
					_
					6 <del>-000</del>
				-	<del></del>
				1	-
_					
			ÿ		
					7
					X
	****Begin Backfill A	Activities****			
	****Complete Remediat				
				Total	Yds
				Out 960	In GGG
ctures of Ones	overtion Drients Deal CV			Yes	No
	avation Prior to Backfill				
elevant Information	n in Project Tracker?				

Released to Imaging: 7/31/2024 8:55:05 AM

## Appendix C Laboratory Analytical Reports



June 26, 2024

JOEL LOWRY
Etech Environmental & Safety Solutions
2617 W MARLAND
HOBBS, NM 88240

RE: RAIDER FED COM 101H SPILL #1

Enclosed are the results of analyses for samples received by the laboratory on 06/25/24 12:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

 Received:
 06/25/2024
 Sampling Date:
 06/21/2024

 Reported:
 06/26/2024
 Sampling Type:
 Soil

Project Name: RAIDER FED COM 101H SPILL #1 Sampling Condition: Cool & Intact

Project Number: 19870 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: PERMIAN 32.20917, -103.46866

mg/kg

### Sample ID: FL - 6 @ 2' (H243772-01)

BTEX 8021B

DIEXOGEID	9/	119	Anaryzo	u 5 y : 5 : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/25/2024	ND	1.87	93.5	2.00	5.70	
Toluene*	<0.050	0.050	06/25/2024	ND	2.03	102	2.00	5.22	
Ethylbenzene*	<0.050	0.050	06/25/2024	ND	2.05	103	2.00	4.61	
Total Xylenes*	<0.150	0.150	06/25/2024	ND	6.41	107	6.00	4.29	
Total BTEX	<0.300	0.300	06/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/26/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2024	ND	203	102	200	5.05	
DRO >C10-C28*	<10.0	10.0	06/25/2024	ND	212	106	200	5.21	
EXT DRO >C28-C36	<10.0	10.0	06/25/2024	ND					
Surrogate: 1-Chlorooctane	85.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 06/25/2024 Sampling Date: 06/21/2024

Reported: 06/26/2024 Sampling Type: Soil

Project Name: RAIDER FED COM 101H SPILL #1 Sampling Condition: Cool & Intact Project Number: 19870 Sample Received By: Shalyn Rodriguez

Project Location: PERMIAN 32.20917, -103.46866

### Sample ID: FL - 7 @ 4' (H243772-02)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/25/2024	ND	1.87	93.5	2.00	5.70	
Toluene*	<0.050	0.050	06/25/2024	ND	2.03	102	2.00	5.22	
Ethylbenzene*	<0.050	0.050	06/25/2024	ND	2.05	103	2.00	4.61	
Total Xylenes*	<0.150	0.150	06/25/2024	ND	6.41	107	6.00	4.29	
Total BTEX	<0.300	0.300	06/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/26/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2024	ND	205	102	200	3.76	
DRO >C10-C28*	<10.0	10.0	06/26/2024	ND	196	98.2	200	7.91	
EXT DRO >C28-C36	<10.0	10.0	06/26/2024	ND					
Surrogate: 1-Chlorooctane	86.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 06/25/2024 Sampling Date: 06/21/2024

Reported: 06/26/2024 Sampling Type: Soil

Project Name: RAIDER FED COM 101H SPILL #1 Sampling Condition: Cool & Intact
Project Number: 19870 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: PERMIAN 32.20917, -103.46866

### Sample ID: FL - 19 @ 5' (H243772-03)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/25/2024	ND	1.87	93.5	2.00	5.70	
Toluene*	<0.050	0.050	06/25/2024	ND	2.03	102	2.00	5.22	
Ethylbenzene*	<0.050	0.050	06/25/2024	ND	2.05	103	2.00	4.61	
Total Xylenes*	<0.150	0.150	06/25/2024	ND	6.41	107	6.00	4.29	
Total BTEX	<0.300	0.300	06/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/26/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2024	ND	205	102	200	3.76	
DRO >C10-C28*	<10.0	10.0	06/26/2024	ND	196	98.2	200	7.91	
EXT DRO >C28-C36	<10.0	10.0	06/26/2024	ND					
Surrogate: 1-Chlorooctane	85.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### **Notes and Definitions**

S-05 The surrogate recovery is outside of lab established statistical control 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

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene

FORM-006 R 2.0

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(575) 393-2326 FAX (575) 393-2476		
Company Name: Etech Environmental	BILL TO	ANALYSIS REQUEST
Project Manager: Joel Lowry	P.O. #:	
Address: 2617 W Marland Blvd	Company:	
lobbs State: NM Zip:	88240 Attn:	
Phone #: (575) 264-9884 Fax #:	Address:	
: 19870 Project Owner:	Permian Resources City:	
m	State: Zip:	
9	Phone #:	
	Fax #:	
	MATRIX PRESERV. SAMPLING	
Lab I.D. Sample I.D.  (G)RAB OR (C)OMP. # CONTAINERS	OTHER:	Chloride
£1.6 0 5. (!	X 6/2/2/3	シャメメ
1 1 1 2	×	2777
3 tr-186 2.	}	
PLEASE NOTE: Liability and Damages. Cardinal's liability and clean'ts exclusive remedy for any clean arising whether based in contract or tort, shall be limited to the amount paid by the cleant for the public of the applicable analyses. All cleans including those for negligence and any other cause whatboverer shall be deemed waited unless made in writing and necessed by Cardinal within 30 days after completion of the applicable analyses. All cleans including those for negligence and any other cause whatboverer shall be deemed waited unless made in writing and necessed by Cardinal within 30 days after completion of the applicable analyses. All cleans it shall cardinal be leached for including the cleans to any cleans and the shall cardinal be leached for including ordering and cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall cardinal shall	hether based in contract or tort, shall be limited to the amount paid by the cleant to nless made in writing and received by Cardinal within 30 days after completion of t business interruptions, loss of use, or loss of profits incurred by cleant, is subsidial.	e applicable
Relinquished By:  Relinquished By:  Relinquished By:  Date:  Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Received Recei	Received By:  Pho Fax  Received By:  Received By:  Received By:	Phone Result:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition CHECKED BY: Cool Intact Checked By: (Initials) Checked By: (Initials)	( he warm)
+ Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476	changes to 575-393-2476	

Page 6 of 6



June 25, 2024

JOEL LOWRY
Etech Environmental & Safety Solutions
2617 W MARLAND
HOBBS, NM 88240

RE: RAIDER FED COM 101H SPILL #1

Enclosed are the results of analyses for samples received by the laboratory on 06/24/24 16:52.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Analyzed By: JH

Sampling Date: 06/24/2024

06/24/2024 Reported: 06/25/2024

Sampling Type: Soil

Project Name: RAIDER FED COM 101H SPILL #1 Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras

Project Number: 19870

Project Location: PERMIAN 32.20917, -103.46866

mg/kg

Sample ID: EW - 2B (H243751-01)

Received:

BTEX 8021B

	9,	9							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/25/2024	ND	1.94	97.1	2.00	1.06	
Toluene*	<0.050	0.050	06/25/2024	ND	1.91	95.7	2.00	1.92	
Ethylbenzene*	<0.050	0.050	06/25/2024	ND	1.95	97.5	2.00	2.68	
Total Xylenes*	<0.150	0.150	06/25/2024	ND	5.71	95.2	6.00	3.03	
Total BTEX	<0.300	0.300	06/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.4	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/25/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2024	ND	179	89.6	200	1.73	
DRO >C10-C28*	<10.0	10.0	06/25/2024	ND	177	88.5	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	06/25/2024	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Analyzed By: JH

Received: 06/24/2024 Reported: 06/25/2024 Sampling Date: 06/24/2024 Sampling Type: Soil

Project Name: RAIDER FED COM 101H SPILL #1

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Project Number: 19870

Project Location: PERMIAN 32.20917, -103.46866

mg/kg

### Sample ID: NW - 2B (H243751-02)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/25/2024	ND	1.94	97.1	2.00	1.06	
Toluene*	<0.050	0.050	06/25/2024	ND	1.91	95.7	2.00	1.92	
Ethylbenzene*	<0.050	0.050	06/25/2024	ND	1.95	97.5	2.00	2.68	
Total Xylenes*	<0.150	0.150	06/25/2024	ND	5.71	95.2	6.00	3.03	
Total BTEX	<0.300	0.300	06/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.5	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/25/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2024	ND	179	89.6	200	1.73	
DRO >C10-C28*	<10.0	10.0	06/25/2024	ND	177	88.5	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	06/25/2024	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Analyzed By: JH

Received: 06/24/2024

Sampling Date: 06/24/2024

Reported: 06/25/2024
Project Name: RAIDER FED COM 101H SPILL #1

Sampling Type: Soil

Project Number: 19870

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Project Location: PERMIAN 32.20917, -103.46866

mg/kg

Sample ID: SW - 2B (H243751-03)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/25/2024	ND	1.94	97.1	2.00	1.06	
Toluene*	<0.050	0.050	06/25/2024	ND	1.91	95.7	2.00	1.92	
Ethylbenzene*	<0.050	0.050	06/25/2024	ND	1.95	97.5	2.00	2.68	
Total Xylenes*	<0.150	0.150	06/25/2024	ND	5.71	95.2	6.00	3.03	
Total BTEX	<0.300	0.300	06/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/25/2024	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2024	ND	179	89.6	200	1.73	
DRO >C10-C28*	<10.0	10.0	06/25/2024	ND	177	88.5	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	06/25/2024	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Kreine



### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 06/24/2024 Sampling Date: 06/24/2024

Reported: 06/25/2024 Sampling Type: Soil

Project Name: RAIDER FED COM 101H SPILL #1 Sampling Condition: Cool & Intact
Project Number: 19870 Sample Received By: Alyssa Parras

Project Location: PERMIAN 32.20917, -103.46866

### Sample ID: WW - 2B (H243751-04)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/25/2024	ND	1.94	97.1	2.00	1.06	
Toluene*	<0.050	0.050	06/25/2024	ND	1.91	95.7	2.00	1.92	
Ethylbenzene*	< 0.050	0.050	06/25/2024	ND	1.95	97.5	2.00	2.68	
Total Xylenes*	<0.150	0.150	06/25/2024	ND	5.71	95.2	6.00	3.03	
Total BTEX	<0.300	0.300	06/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.3	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/25/2024	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2024	ND	179	89.6	200	1.73	
DRO >C10-C28*	<10.0	10.0	06/25/2024	ND	177	88.5	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	06/25/2024	ND					
Surrogate: 1-Chlorooctane	100	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.5	% 49.1-14	8						

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg & Frence



### **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

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keene

Revision 1.0

FORM-006

Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



City: Project Name: Raider FED Phone #: Project Manager: Project Location Project #: Sampler Name: Relinduis Sampler - UPS - Bus - Other: FOR LAB USE ONLY Delivered By: (Circle One) Lab I.D. 7012 Hobbs (575) 264-9884 2617 West Marland NW-2B SW-2B WW-2B Martin Schulveda oci lawry Etech Environmental & Safety Solutions, Inc. Sample I.D. Fax #: Project Owner: State: NM Time: Zip: 88240 G)RAB OR (C)OMP Received By # CONTAINERS GROUNDWATER Cool Intact

Hes Yes

No No Sample Condition WASTEWATER MATRIX OIL SLUDGE State: Phone #: Attn: City: P.O. #: Fax #: OTHER Address Company ACID/BASE PRESERV CE / COOL CHECKED BY: BILL (Initials) B -24-24 DATE SAMPLING 70 Please email copy of COC and results to pm@etechenv.com REMARKS: Phone Resul 1 TIME tion of the appl Chloride TPH (8015M) Yes Yes BTEX (8021B) NON 118mg 24 HB ANALYSIS Add'l Fax #: REQUEST



June 24, 2024

JOEL LOWRY
Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS, NM 88240

RE: RAIDER FED COM 101H SPILL #1

Enclosed are the results of analyses for samples received by the laboratory on 06/21/24 14:56.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



06/21/2024

### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 06/21/2024 Sampling Date:

Reported: 06/24/2024 Sampling Type: Soil Project Name: RAIDER FED COM 101H SPILL #1 Sampling Condition:

Cool & Intact Project Number: 19870 Sample Received By: Alyssa Parras

Project Location: PERMIAN 32.20917, -103.46866

### Sample ID: NW 6 @ 4' (H243705-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/23/2024	ND	2.01	101	2.00	2.29	
Toluene*	<0.050	0.050	06/23/2024	ND	2.09	104	2.00	7.25	
Ethylbenzene*	<0.050	0.050	06/23/2024	ND	2.16	108	2.00	7.89	
Total Xylenes*	<0.150	0.150	06/23/2024	ND	6.58	110	6.00	8.01	
Total BTEX	<0.300	0.300	06/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/24/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2024	ND	203	101	200	0.158	
DRO >C10-C28*	<10.0	10.0	06/24/2024	ND	184	92.0	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	06/24/2024	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 06/21/2024 Sampling Date: 06/21/2024

Reported: 06/24/2024 Sampling Type: Soil

Project Name: RAIDER FED COM 101H SPILL #1 Sampling Condition: Cool & Intact
Project Number: 19870 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: PERMIAN 32.20917, -103.46866

mg/kg

### Sample ID: WW 4 (H243705-02)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	u by. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/23/2024	ND	2.01	101	2.00	2.29	
Toluene*	<0.050	0.050	06/23/2024	ND	2.09	104	2.00	7.25	
Ethylbenzene*	<0.050	0.050	06/23/2024	ND	2.16	108	2.00	7.89	
Total Xylenes*	<0.150	0.150	06/23/2024	ND	6.58	110	6.00	8.01	
Total BTEX	<0.300	0.300	06/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/24/2024	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	06/24/2024	ND	203	101	200	0.158	
DRO >C10-C28*	<10.0	10.0	06/24/2024	ND	184	92.0	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	06/24/2024	ND					
Surrogate: 1-Chlorooctane	96.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### **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

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene

Revision 1.0 FORM-006

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES  101 East Marland, Hobbs, NM 88240  (575) 393-2326 FAX (575) 393-2476  (575) 393-2326 FAX (575) 393-2476  (575) 393-2326 FAX (575) 393-2476	P.O. #:			
ARDINAL LABORATORIES  101 East Marland, Hobbs, NM 88240  (575) 393-2326 FAX (575) 393-2476	DIL	e: Etech Environmental & Safety Solutions, Inc.	Company Name	
ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240	NO COLOR	(575) 393-2326 FAX (575) 393-2476		
ARDINAL LABORATORIES		101 East Marland, Hobbs, NM 88240		Pa
T		RDINAL LABORATORIES	A	ge .
			T	<i>57</i>

ompany Name: roject Manager: ddress: 2617	(575) 393-2326 FAX (575) 393-2476  ame: Etech Environmental & Safety Solutions, Inc. ager: Joel Lowry  2617 West Marland	76 ions, Inc.	P.O. #: Company	BILL TO  SEE REMARKS	N. C.		
roject #: 19870	roject #: 19870 Project Owner: roject Name: Raider Fed Com 101H Spill #1	: Permian Resources	State:	Zip:	ide	15 <b>M</b> )	021B)
roject Location:	32.20917, -103.46866		Phone #:		hlor	1 (80	
ampler Name:	ampler Name: Martin Sepulveda		Fax	1		ГРН	
			MATRIX PRESERV.	ERV. SAMPLING	G	Т	
Lab I.D.	Sample I.D.	S)RAB OR (C)OMP. CONTAINERS ROUNDWATER WASTEWATER	THER:		TIME		
174.575	NW 6 @ 4'	<u>→</u> #			×	×	
7	WW 4	C 1	×	X 6/21/24	×	<b>-</b>	
						+++	1 1 1
						+++	111
	The proof of the angular contract of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the sec	any claim arising whether I	pased in contract or tort, shall t	e limited to the amount pai	by the client for the	100	
nalyses. All claims includer includers in no event shalf	ALEASE MVIE. Learning and uniteractive control of the cause whatsoever shall be deemed waived unless made in writing and received by Cardinal writin 30 usps are compression on any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal writin 30 usps are compression or any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal writin 30 usps are compression or standardings.  Service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, service. In no event shall Cardinal writing and received by Cardinal writin 30 usps are compression.	e deemed waived unless ming without limitation, busine	ause whatsoever shall be deemed waived unless made in writing and received by Catoma wirm or urays are quental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by q	Cardinal within 30 days are loss of profits incurred by c	ient, its subsidiaries, asons or otherwise.		
affiliates or successor's arking Relinquished By:	By:  Date:  Time:	Received By:			Phone Result: Fax Result: REMARKS:		☐ Yes
Relipquished By:	1	Received By:			RUSH SAMPLES - 24 HOUR  Bill rush charges to Etech C/O Joel Lowry and analytical charges to	ag C	ges
Delivered By Sampler - UPS	Delivered By: (Circle One)	San Co	Sample Condition Cool Intact Col Yes Yes No No	CHECKED BY: (Initials)	Permian Resources C/O Montgomery Floyd Please email copy of COC and results to pm@etechenv.com.		1 2 <del>2</del>
FORM-006	<b>+</b>	Cardinal cannot	Cardinal cannot accept verbal changes. Please fax written changes	ınges. Please fa	x written chai	nges to 575-393-2476	

Page 5 of 5



June 20, 2024

JOEL LOWRY
Etech Environmental & Safety Solutions
2617 W MARLAND
HOBBS, NM 88240

RE: RAIDER FED COM 101H SPILL #1

Enclosed are the results of analyses for samples received by the laboratory on 06/19/24 8:43.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 06/19/2024 Sampling Date: 06/18/2024

Reported: 06/20/2024 Sampling Type: Soil

Project Name: RAIDER FED COM 101H SPILL #1 Sampling Condition: Cool & Intact
Project Number: 19870 Sample Received By: Alyssa Parras

Project Location: PERMIAN 32.20917, -103.46866

### Sample ID: FL 20 @ 4' (H243587-01)

BTEX 8021B	mg,	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/19/2024	ND	2.24	112	2.00	2.85	
Toluene*	<0.050	0.050	06/19/2024	ND	2.14	107	2.00	5.98	
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	2.12	106	2.00	5.53	
Total Xylenes*	<0.150	0.150	06/19/2024	ND	6.70	112	6.00	5.67	
Total BTEX	<0.300	0.300	06/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/19/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	198	99.1	200	2.10	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	182	90.8	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 06/19/2024 Reported: 06/20/2024 Sampling Date: 06/18/2024

Project Name:

Sampling Type: Soil

RAIDER FED COM 101H SPILL #1 Project Number: 19870

Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras

Project Location: PERMIAN 32.20917, -103.46866

### Sample ID: FL 21 @ 4' (H243587-02)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/19/2024	ND	2.24	112	2.00	2.85	
Toluene*	<0.050	0.050	06/19/2024	ND	2.14	107	2.00	5.98	
Ethylbenzene*	< 0.050	0.050	06/19/2024	ND	2.12	106	2.00	5.53	
Total Xylenes*	<0.150	0.150	06/19/2024	ND	6.70	112	6.00	5.67	
Total BTEX	<0.300	0.300	06/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/19/2024	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	06/19/2024	ND	198	99.1	200	2.10	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	182	90.8	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 06/19/2024 Sampling Date: 06/18/2024

Reported: 06/20/2024 Sampling Type: Soil

Project Name: RAIDER FED COM 101H SPILL #1 Sampling Condition: Cool & Intact Project Number: 19870 Sample Received By: Alyssa Parras

Project Location: PERMIAN 32.20917, -103.46866

### Sample ID: FL 22 @ 4' (H243587-03)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/19/2024	ND	2.24	112	2.00	2.85	
Toluene*	<0.050	0.050	06/19/2024	ND	2.14	107	2.00	5.98	
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	2.12	106	2.00	5.53	
Total Xylenes*	<0.150	0.150	06/19/2024	ND	6.70	112	6.00	5.67	
Total BTEX	<0.300	0.300	06/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/19/2024	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	06/19/2024	ND	198	99.1	200	2.10	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	182	90.8	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					
Surrogate: 1-Chlorooctane	108 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108 9	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 06/19/2024

Sampling Date: 06/18/2024

Reported: Project Name: 06/20/2024 Sampling Type: Soil RAIDER FED COM 101H SPILL #1 Sampling Condition: Coo

Project Number: 19870

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Project Location: PERMIAN 32.20917, -103.46866

### Sample ID: FL 23 @ 4' (H243587-04)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/19/2024	ND	2.24	112	2.00	2.85	
Toluene*	<0.050	0.050	06/19/2024	ND	2.14	107	2.00	5.98	
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	2.12	106	2.00	5.53	
Total Xylenes*	<0.150	0.150	06/19/2024	ND	6.70	112	6.00	5.67	
Total BTEX	<0.300	0.300	06/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/19/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	198	99.1	200	2.10	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	182	90.8	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 06/19/2024

Sampling Date: 06/18/2024

Reported: 06/20/2024
Project Name: RAIDER FED COM 101H SPILL #1

Sampling Type: Soil

Project Number: 19870

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Project Location: PERMIAN 32.20917, -103.46866

### Sample ID: FL 24 @ 4' (H243587-05)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/19/2024	ND	2.24	112	2.00	2.85	
Toluene*	<0.050	0.050	06/19/2024	ND	2.14	107	2.00	5.98	
Ethylbenzene*	< 0.050	0.050	06/19/2024	ND	2.12	106	2.00	5.53	
Total Xylenes*	<0.150	0.150	06/19/2024	ND	6.70	112	6.00	5.67	
Total BTEX	<0.300	0.300	06/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/19/2024	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	06/19/2024	ND	198	99.1	200	2.10	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	182	90.8	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 06/19/2024 Sampling Date: 06/18/2024

Reported: 06/20/2024 Sampling Type: Soil

Project Name: RAIDER FED COM 101H SPILL #1 Sampling Condition: Cool & Intact
Project Number: 19870 Sample Received By: Alyssa Parras

Analyzed By: 14

Project Location: PERMIAN 32.20917, -103.46866

### Sample ID: FL 25 @ 4' (H243587-06)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/19/2024	ND	1.67	83.4	2.00	15.5	
Toluene*	<0.050	0.050	06/19/2024	ND	1.78	88.8	2.00	12.6	
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.86	93.2	2.00	11.4	
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.57	92.9	6.00	11.3	
Total BTEX	<0.300	0.300	06/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/19/2024	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	06/19/2024	ND	198	99.1	200	2.10	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	182	90.8	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 06/19/2024 Reported: 06/20/2024

Project Name: RAIDER FED COM 101H SPILL #1

Project Number: 19870

Project Location: PERMIAN 32.20917, -103.46866 Sampling Date: 06/18/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras

### Sample ID: NW 4 (H243587-07)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/19/2024	ND	1.67	83.4	2.00	15.5	
Toluene*	<0.050	0.050	06/19/2024	ND	1.78	88.8	2.00	12.6	
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.86	93.2	2.00	11.4	
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.57	92.9	6.00	11.3	
Total BTEX	<0.300	0.300	06/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/19/2024	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	06/19/2024	ND	198	99.1	200	2.10	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	182	90.8	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					
Surrogate: 1-Chlorooctane	98.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 06/19/2024 Sampling Date: 06/18/2024

Reported: 06/20/2024 Sampling Type: Soil

Project Name: RAIDER FED COM 101H SPILL #1 Sampling Condition: Cool & Intact Project Number: 19870 Sample Received By: Alyssa Parras

Project Location: PERMIAN 32.20917, -103.46866

### Sample ID: NW 5 (H243587-08)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/19/2024	ND	1.67	83.4	2.00	15.5	
Toluene*	<0.050	0.050	06/19/2024	ND	1.78	88.8	2.00	12.6	
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.86	93.2	2.00	11.4	
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.57	92.9	6.00	11.3	
Total BTEX	<0.300	0.300	06/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/19/2024	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	06/19/2024	ND	198	99.1	200	2.10	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	182	90.8	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					
Surrogate: 1-Chlorooctane	107 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 06/19/2024 Sampling Date: 06/18/2024

Reported: 06/20/2024 Sampling Type: Soil

Project Name: RAIDER FED COM 101H SPILL #1 Sampling Condition: Cool & Intact
Project Number: 19870 Sample Received By: Alyssa Parras

Project Location: PERMIAN 32.20917, -103.46866

### Sample ID: EW 4 (H243587-09)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/19/2024	ND	1.67	83.4	2.00	15.5	
Toluene*	<0.050	0.050	06/19/2024	ND	1.78	88.8	2.00	12.6	
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.86	93.2	2.00	11.4	
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.57	92.9	6.00	11.3	
Total BTEX	<0.300	0.300	06/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 :	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/19/2024	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	06/19/2024	ND	198	99.1	200	2.10	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	182	90.8	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Analyzed By: 14

Received: 06/19/2024 Reported: 06/20/2024 Sampling Date: 06/18/2024 Sampling Type: Soil

Project Name:

06/20/2024 Sampling Type: So RAIDER FED COM 101H SPILL #1 Sampling Condition: Co

Project Number: 19870

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Project Location: PERMIAN 32.20917, -103.46866

ma/ka

Sample ID: SW 4 (H243587-10)

RTFY 8021R

BIEX 8021B	тд/кд		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/19/2024	ND	1.67	83.4	2.00	15.5	
Toluene*	<0.050	0.050	06/19/2024	ND	1.78	88.8	2.00	12.6	
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.86	93.2	2.00	11.4	
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.57	92.9	6.00	11.3	
Total BTEX	<0.300	0.300	06/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	120	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/19/2024	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	06/19/2024	ND	198	99.1	200	2.10	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	182	90.8	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					
Surrogate: 1-Chlorooctane	89.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.4	% 49.1-14	8						
Surrogate: 1-Chlorooctadecane	92.4	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Kreine



### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 06/19/2024 Reported: 06/20/2024 Sampling Date: 06/18/2024 Soil

Project Name:

Sampling Type: RAIDER FED COM 101H SPILL #1 Sampling Condition:

Project Number: 19870

Cool & Intact Sample Received By: Alyssa Parras

Project Location: PERMIAN 32.20917, -103.46866

### Sample ID: SW 5 (H243587-11)

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	06/19/2024	ND	1.67	83.4	2.00	15.5	
Toluene*	<0.050	0.050	06/19/2024	ND	1.78	88.8	2.00	12.6	
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.86	93.2	2.00	11.4	
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.57	92.9	6.00	11.3	
Total BTEX	<0.300	0.300	06/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	120 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/19/2024	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	06/19/2024	ND	198	99.1	200	2.10	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	182	90.8	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					
Surrogate: 1-Chlorooctane	97.7 % 48.2-13		4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 06/19/2024 Sampling Date: 06/18/2024

Reported: 06/20/2024 Sampling Type: Soil

Project Name: RAIDER FED COM 101H SPILL #1 Sampling Condition: Cool & Intact
Project Number: 19870 Sample Received By: Alyssa Parras

Project Location: PERMIAN 32.20917, -103.46866

### Sample ID: WW 5 (H243587-12)

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	06/19/2024	ND	1.67	83.4	2.00	15.5	
Toluene*	<0.050	0.050	06/19/2024	ND	1.78	88.8	2.00	12.6	
Ethylbenzene*	< 0.050	0.050	06/19/2024	ND	1.86	93.2	2.00	11.4	
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.57	92.9	6.00	11.3	
Total BTEX	<0.300	0.300	06/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 71.5-13	4						
Chloride, SM4500CI-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	06/19/2024	ND	416	104	400	0.00	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	06/20/2024	ND	198	99.1	200	2.10	
DRO >C10-C28*	<10.0	10.0	06/20/2024	ND	182	90.8	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	06/20/2024	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Analyzed By: JH

Sampling Date:

06/18/2024

Reported:

Received:

BTEX 8021B

06/19/2024 06/20/2024

Sampling Type:

Soil

Project Name:

RAIDER FED COM 101H SPILL #1

Sampling Condition: Sample Received By: Cool & Intact Alyssa Parras

Project Number: Project Location:

19870

PERMIAN 32.20917, -103.46866

mg/kg

Sample ID: WW 6 (H243587-13)

	9/	9	7	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/19/2024	ND	1.67	83.4	2.00	15.5	
Toluene*	<0.050	0.050	06/19/2024	ND	1.78	88.8	2.00	12.6	
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.86	93.2	2.00	11.4	
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.57	92.9	6.00	11.3	
Total BTEX	<0.300	0.300	06/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	120	% 71.5-13	4						
Chloride, SM4500CI-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	06/19/2024	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	06/20/2024	ND	198	99.1	200	2.10	
DRO >C10-C28*	<10.0	10.0	06/20/2024	ND	182	90.8	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	06/20/2024	ND					
Surrogate: 1-Chlorooctane	98.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### **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

ecovery.

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

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Kune

FORM-006 Revision 1.0

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

	(3/3) 333-2320 FAX (3/3) 333-24/0	24/6	١		ı	1					4	4						١		5		ήl	اد	-1	11	11	1	1
Company Name:	Etech Environmental & Safety Solutions, Inc	utions	i, Inc	C.			18				U		BILL 10				]		ANALTOIS	10	1	KEWUESI	٦٥	C	10	0	1	1
Project Manager:	: Joel Lowry						P.O.	15	#																			
Address: 2617	2617 West Marland			(4)			Company	∄	a	Ŋ			SEE REMARKS	RKS														
City: Hobbs	State: NM	Zip	88	Zip: 88240			Attn:	=																				
Phone #: (575)	(575) 264-9884 Fax #:						Address:	dr	Se	S																		
Project #: 19870	70 Project Owner:	ier:	Pe	Permian Resources	ourc		City:	Ÿ:								)	3)											
Project Name: F	Raider Fed Com 101H Spill #1						State:	te					Zip:		de	5M	21E	1										
Project Location:	32.20917, -103.46866						Phone #:	9	Ф	**					lori	(801	(80											
ampler Name: N	Sampler Name: Martin Sepulveda						Fax #:	*							Ch	РН	EX											
FOR LAB USE ONLY		<b>D</b> .	$\neg$	MAT	MATRIX			P	PRESERV.	SE	P	-	SAMPLING	G		TI	В											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER WASTEWATER SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:		ICE / COOL	OTHER:	OTTIETT.	DATE	TIME										I			l .	
_	FL 20 @ 4'	0	_							×		_	6/18/24		×	×	×											
2	21	0	1	×					-	×		_	6/18/24		×	×	×	Г						1	1	1	1	1
N	FL 22 @ 4'	0	_	×						×		_	6/18/24		×	×	×							1	1	1	1.	
	FL 23 @ 4'	0	1	×					-	×		_	6/18/24		×	×	×	Τ						1	1	1	1	
<b>N</b>	FL 24 @ 4'	0		×					_	×		_	6/18/24		×	×	×	T							1	1	1	
<u> </u>	FL 25 @ 4'	C		×					-	×		_	6/18/24		×	×	×	T						1	1	1		
ر ا	NW 4	C		×					-	×			6/18/24		×	×	×	T							1	1	1	
~	NW 5	C		×			6		-	×		_	6/18/24		×	×	×	T								1	1	
٩	EW 4	C	7	×					-	×			6/18/24		×	×	×	T										
10	SW 4	0	_	×	3	tract	2	2		×	B. T.	1	6/18/24	by the client for t	×	×	×	r			1	1	1					
PLEASE NOTE: Liability and Damages. analyses. All claims including those for r service. In no event shall Cardinal be lial	PLEASE NOTE: Liability and Damages, Cardinal's liability and client is exclusive teningly or any vaint ensure was a non-construction of the applicable paralyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries.	l be deem	led wai	sing whether based in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the transfer in the tran	in writing terrupt	ng and ions, l	rece oss c	eived of us	by e, or	Car r los	dina s of v of	bro the	thin 30 days after of this incurred by clical above stated reas	completion of the ent, its subsidiari	ne applical ies,	ble		71							1	1		
Relinquished By:		R	есе	Received By:	- 1	- 1	- 1		- 1				_	Phone Result: Fax Result:	t:	□ Yes		ON O	Add'l	Add'l Phone #: Add'l Fax #:	e #:							
11/11/11	1 No. 1 No. 13		2	B	6	1	-							REMARKS:	9.													
Relinquished By:	0	70	ece	Received By:										<b>RUSH S</b>		<b>AMPLES</b>	믿		<b>- 24 HOUR</b>	동	$\equiv$	Z						
	Time:													Bill rush charges to	char	rges	to Et	Etech C/O Joel Lowry and analytical charges to	O J0	el Lo	V.	2	b	a	S.	Ē	₫.	S
Delivered By:	(Circle One)			Sample Condition Cool Intact	Inta	ndit ict	9		_	오		E X	CHECKED BY: (Initials)	Permian Res Please email	mail o	copy	of CC	ources C/O Montgomery Floyd copy of COC and results to pm@etechenv.com.	resu	lts to	pm(	(8)	te	C	Э	7	0	0
Sampler - UPS	- Bus - Other: #140			□ No □ No	No D	Z	ا ا			+	P	14	Ľ				l					1	1	1	1	1	1	

Revision 1.0 FORM-006

ARDINAL LABORATORIES

101 East Mariand, Hobbs, NM 88240		
(5/5) 393-2326 FAX (5/5) 393-24/0	BILLTO	ANALYSIS REQUEST
Company Name: Etech Environmental & Safety Solutions, Inc.	BILL TO	ANALIGIO NEGOLO
Project Manager: Joel Lowry	P.O. #:	
Address: 2617 West Marland	Company SEE REMARKS	
City: Hobbs State: NM Zip: 88240	Attn:	
Phone #: (575) 264-9884	Address:	
Project #: 19870 Project Owner: Permian Resources City:	City:	_
Project Name: Raider Fed Com 101H Spill #1	State: Zip:	15M
Project Location: 32.20917, -103.46866	Phone #:	_



June 24, 2024

JOEL LOWRY
Etech Environmental & Safety Solutions
2617 W MARLAND
HOBBS, NM 88240

RE: RAIDER FED COM 101H SPILL #1

Enclosed are the results of analyses for samples received by the laboratory on 06/18/24 12:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 06/18/2024 Sampling Date: 06/17/2024

Reported: 06/24/2024 Sampling Type: Soil

Project Name: RAIDER FED COM 101H SPILL #1 Sampling Condition: Cool & Intact
Project Number: 19870 Sample Received By: Tamara Oldaker

Applyand By 14

Project Location: PERMIAN 32.20917, -103.46866

## Sample ID: FL 6 @ 1' (H243566-01)

DTEV 0021D

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2024	ND	2.11	106	2.00	0.905	
Toluene*	<0.050	0.050	06/21/2024	ND	2.05	102	2.00	1.38	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	2.03	101	2.00	2.00	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	6.37	106	6.00	1.99	
Total BTEX	<0.300	0.300	06/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/20/2024	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	53.2	10.0	06/19/2024	ND	215	107	200	0.000931	
DRO >C10-C28*	2720	10.0	06/19/2024	ND	225	112	200	3.56	
EXT DRO >C28-C36	591	10.0	06/19/2024	ND					
Surrogate: 1-Chlorooctane	132 5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	204	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey & Keene

C-04



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

## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 06/18/2024 Reported: 06/24/2024 Sampling Date: 06/17/2024 Sampling Type: Soil

Project Name:

RTFY 8021R

RAIDER FED COM 101H SPILL #1 Sampling Condition:

Analyzed By: 14

Project Number: 19870

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Project Location: PERMIAN 32.20917, -103.46866

ma/ka

## Sample ID: FL 7 @ 3' (H243566-02)

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					5-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2024	ND	1.91	95.6	2.00	3.71	
Toluene*	< 0.050	0.050	06/21/2024	ND	1.88	93.8	2.00	3.02	GC-NC
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	1.89	94.4	2.00	2.50	GC-NC, QM-07
Total Xylenes*	<0.150	0.150	06/21/2024	ND	5.53	92.2	6.00	2.16	
Total BTEX	<0.300	0.300	06/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	324	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/20/2024	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	131	10.0	06/19/2024	ND	215	107	200	0.000931	
DRO >C10-C28*	3670	10.0	06/19/2024	ND	225	112	200	3.56	
EXT DRO >C28-C36	904	10.0	06/19/2024	ND					
Surrogate: 1-Chlorooctane	132	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	178	% 49.1-14	8						

**Cardinal Laboratories** 

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Cool & Intact

## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Analyzed By: JH

Received: 06/18/2024 Sampling Date:

Project Name: RAIDER FED COM 101H SPILL #1 Sampling Condition:

Project Number: 19870

Project Location: PERMIAN 32.20917, -103.46866

mg/kg

06/17/2024 Reported: 06/24/2024 Sampling Type: Soil

> Sample Received By: Tamara Oldaker

## Sample ID: FL 8 @ 3' (H243566-03)

BTEX 8021B

	9/	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2024	ND	1.91	95.6	2.00	3.71	
Toluene*	<0.050	0.050	06/21/2024	ND	1.88	93.8	2.00	3.02	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	1.89	94.4	2.00	2.50	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	5.53	92.2	6.00	2.16	
Total BTEX	<0.300	0.300	06/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/20/2024	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	215	107	200	0.000931	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	225	112	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					
Surrogate: 1-Chlorooctane	131	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	138	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Analyzed By: JH

Received: 06/18/2024 Reported: 06/24/2024 Sampling Date: 06/17/2024
Sampling Type: Soil

Project Name: RAIDER FED COM 101H SPILL #1

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Project Number: 19870

Project Location: PERMIAN 32.20917, -103.46866

mg/kg

## Sample ID: FL 9 @ 0.5' (H243566-04)

BTEX 8021B

	9/	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2024	ND	1.91	95.6	2.00	3.71	
Toluene*	<0.050	0.050	06/21/2024	ND	1.88	93.8	2.00	3.02	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	1.89	94.4	2.00	2.50	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	5.53	92.2	6.00	2.16	
Total BTEX	<0.300	0.300	06/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.6	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/20/2024	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	215	107	200	0.000931	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	225	112	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					
Surrogate: 1-Chlorooctane	124	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	127	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Kreine



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Analyzed By: JH

Received: 06/18/2024

Sampling Date: 06/1: Sampling Type: Soil

06/17/2024

Reported: Project Name: 06/24/2024

RAIDER FED COM 101H SPILL #1

Sampling Condition:

Cool & Intact

Project Number:

BTEX 8021B

19870

Sample Received By:

Tamara Oldaker

Project Location: PERMIAN 32.20917, -103.46866

## Sample ID: FL 10 @ 0.5' (H243566-05)

DILX GOZID	11197	- Kg	Allulyzo	.u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2024	ND	1.91	95.6	2.00	3.71	
Toluene*	<0.050	0.050	06/21/2024	ND	1.88	93.8	2.00	3.02	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	1.89	94.4	2.00	2.50	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	5.53	92.2	6.00	2.16	
Total BTEX	<0.300	0.300	06/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.6	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/20/2024	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	215	107	200	0.000931	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	225	112	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					
Surrogate: 1-Chlorooctane	116	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 06/18/2024 Sampling Date: 06/17/2024

Reported: 06/24/2024 Sampling Type: Soil

Project Name: RAIDER FED COM 101H SPILL #1 Sampling Condition: Cool & Intact
Project Number: 19870 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: PERMIAN 32.20917, -103.46866

## Sample ID: FL 11 @ 0.5' (H243566-06)

BTEX 8021B

	9/	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2024	ND	1.91	95.6	2.00	3.71	
Toluene*	<0.050	0.050	06/21/2024	ND	1.88	93.8	2.00	3.02	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	1.89	94.4	2.00	2.50	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	5.53	92.2	6.00	2.16	
Total BTEX	<0.300	0.300	06/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.8	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/20/2024	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	215	107	200	0.000931	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	225	112	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					
Surrogate: 1-Chlorooctane	121	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 06/18/2024 Sampling Date: 06/17/2024

Reported: 06/24/2024 Sampling Type: Soil

Project Name: RAIDER FED COM 101H SPILL #1 Sampling Condition: Cool & Intact
Project Number: 19870 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: PERMIAN 32.20917, -103.46866

mg/kg

## Sample ID: FL 12 @ 2' (H243566-07)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2024	ND	1.91	95.6	2.00	3.71	
Toluene*	<0.050	0.050	06/21/2024	ND	1.88	93.8	2.00	3.02	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	1.89	94.4	2.00	2.50	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	5.53	92.2	6.00	2.16	
Total BTEX	<0.300	0.300	06/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.1	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/20/2024	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	215	107	200	0.000931	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	225	112	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					
Surrogate: 1-Chlorooctane	131	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	138	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Analyzed By: JH

Received: 06/18/2024 Reported: 06/24/2024 Sampling Date: 06/17/2024
Sampling Type: Soil

Project Name: RAIDER FED COM 101H SPILL #1
Project Number: 19870

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Project Number: 19870

Project Location: PERMIAN 32.20917, -103.46866

mg/kg

## Sample ID: FL 13 @ 3' (H243566-08)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2024	ND	1.91	95.6	2.00	3.71	
Toluene*	<0.050	0.050	06/21/2024	ND	1.88	93.8	2.00	3.02	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	1.89	94.4	2.00	2.50	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	5.53	92.2	6.00	2.16	
Total BTEX	<0.300	0.300	06/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.8	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/20/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	215	107	200	0.000931	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	225	112	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					
Surrogate: 1-Chlorooctane	111 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



06/17/2024

Cool & Intact

Tamara Oldaker

## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 06/18/2024 Sampling Date:

Reported: 06/24/2024 Sampling Type: Soil

Project Name: RAIDER FED COM 101H SPILL #1 Sampling Condition: Project Number: 19870 Sample Received By:

Project Location: PERMIAN 32.20917, -103.46866

## Sample ID: FL 14 @ 3' (H243566-09)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2024	ND	1.91	95.6	2.00	3.71	
Toluene*	<0.050	0.050	06/21/2024	ND	1.88	93.8	2.00	3.02	
Ethylbenzene*	< 0.050	0.050	06/21/2024	ND	1.89	94.4	2.00	2.50	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	5.53	92.2	6.00	2.16	
Total BTEX	<0.300	0.300	06/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/20/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	215	107	200	0.000931	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	225	112	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					
Surrogate: 1-Chlorooctane	111 %	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124 9	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 06/18/2024 Sampling Date: 06/17/2024

Reported: 06/24/2024 Sampling Type: Soil

Project Name: RAIDER FED COM 101H SPILL #1 Sampling Condition: Cool & Intact
Project Number: 19870 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: PERMIAN 32.20917, -103.46866

mg/kg

## Sample ID: FL 15 @ 3' (H243566-10)

BTEX 8021B

	97	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2024	ND	1.91	95.6	2.00	3.71	
Toluene*	<0.050	0.050	06/21/2024	ND	1.88	93.8	2.00	3.02	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	1.89	94.4	2.00	2.50	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	5.53	92.2	6.00	2.16	
Total BTEX	<0.300	0.300	06/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.5	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/20/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	215	107	200	0.000931	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	225	112	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					
Surrogate: 1-Chlorooctane	126 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	137 9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene



Tamara Oldaker

Sample Received By:

## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Analyzed By: JH

Received: 06/18/2024 Sampling Date: 06/17/2024
Reported: 06/24/2024 Sampling Type: Soil

Project Name: RAIDER FED COM 101H SPILL #1 Sampling Condition: Cool & Intact

Project Number: 19870

Project Location: PERMIAN 32.20917, -103.46866

mg/kg

## Sample ID: FL 16 @ 3' (H243566-11)

BTEX 8021B

	9/	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2024	ND	1.91	95.6	2.00	3.71	
Toluene*	<0.050	0.050	06/21/2024	ND	1.88	93.8	2.00	3.02	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	1.89	94.4	2.00	2.50	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	5.53	92.2	6.00	2.16	
Total BTEX	<0.300	0.300	06/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.6	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/20/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2024	ND	215	107	200	0.000931	
DRO >C10-C28*	<10.0	10.0	06/20/2024	ND	225	112	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/20/2024	ND					
Surrogate: 1-Chlorooctane	114	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126	% 49.1-14	8						

## Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 06/18/2024 Reported:

Sampling Date: 06/17/2024

Project Name:

BTEX 8021B

06/24/2024

mg/kg

Sampling Type: Soil

Project Number:

RAIDER FED COM 101H SPILL #1

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

19870

Analyzed By: JH

Project Location: PERMIAN 32.20917, -103.46866

## Sample ID: FL 17 @ 4' (H243566-12)

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2024	ND	1.91	95.6	2.00	3.71	
Toluene*	<0.050	0.050	06/21/2024	ND	1.88	93.8	2.00	3.02	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	1.89	94.4	2.00	2.50	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	5.53	92.2	6.00	2.16	
Total BTEX	<0.300	0.300	06/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.8	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/20/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2024	ND	216	108	200	2.07	
DRO >C10-C28*	<10.0	10.0	06/20/2024	ND	218	109	200	0.313	
EXT DRO >C28-C36	<10.0	10.0	06/20/2024	ND					
Surrogate: 1-Chlorooctane	111 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Analyzed By: JH

06/18/2024 06/24/2024

Project Name: RAIDER FED COM 101H SPILL #1

Project Number: 19870

Project Location: PERMIAN 32.20917, -103.46866

mg/kg

Sampling Date: 06/17/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Tamara Oldaker

## Sample ID: FL 18 @ 4' (H243566-13)

Received:

Reported:

BTEX 8021B

	<u> </u>			. ,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2024	ND	1.91	95.6	2.00	3.71	
Toluene*	<0.050	0.050	06/21/2024	ND	1.88	93.8	2.00	3.02	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	1.89	94.4	2.00	2.50	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	5.53	92.2	6.00	2.16	
Total BTEX	<0.300	0.300	06/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.2	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/20/2024	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2024	ND	216	108	200	2.07	
DRO >C10-C28*	<10.0	10.0	06/20/2024	ND	218	109	200	0.313	
EXT DRO >C28-C36	<10.0	10.0	06/20/2024	ND					
Surrogate: 1-Chlorooctane	125	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	123	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene

C-04



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

## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 06/18/2024 Sampling Date: 06/17/2024

Reported: 06/24/2024 Sampling Type: Soil

Project Name: RAIDER FED COM 101H SPILL #1 Sampling Condition: Cool & Intact
Project Number: 19870 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: PERMIAN 32.20917, -103.46866

## Sample ID: FL 19 @ 4' (H243566-14)

RTFY 8021R

B1EX 8021B	mg	/ <b>kg</b>	Anaiyze	а ву: ЈН					5-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2024	ND	1.91	95.6	2.00	3.71	
Toluene*	<0.050	0.050	06/21/2024	ND	1.88	93.8	2.00	3.02	GC-NC
Ethylbenzene*	0.370	0.050	06/21/2024	ND	1.89	94.4	2.00	2.50	GC-NC1
Total Xylenes*	2.46	0.150	06/21/2024	ND	5.53	92.2	6.00	2.16	GC-NC1
Total BTEX	2.83	0.300	06/21/2024	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	169	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/20/2024	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	117	10.0	06/20/2024	ND	216	108	200	2.07	
DRO >C10-C28*	1630	10.0	06/20/2024	ND	218	109	200	0.313	
EXT DRO >C28-C36	255	10.0	06/20/2024	ND					
Surrogate: 1-Chlorooctane	137	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	137	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



## **Notes and Definitions**

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

ecovery.

GC-NC1 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with

interfering compounds.

GC-NC 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.

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

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

	the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		DIET 10				ANALYSIS REQUEST
2		P.O.	. #:				
Address: 2617 West Marland		Cor	Company Permian P	Permian Resources			
dob	State: NM Zip: 88240	Attn:		ry Floyd			
Phone #: (575) 264-9884	Fax #:	Ado	ess:				
Project #: 19870	Project Owner: Permian	Permian Resources City:					
Project Name: Raider Fed Com 101H Spill #1		_					
Project Location: 32.20917, -103.46866	66	Diagram .	e. 41p.	ride		_	
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		Pho	Phone #:	or	_	_	
Sampler Name: Martin Sepulveda		Fax #:	*	Chl	н (	EX	
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING				
					-		
Lab I.D. Sample I.D.	PR (C)OM INERS WATER						
2439au	G)RAB C	VASTEW GOIL DIL SLUDGE DTHER:	CID/BAS CE / COO THER :				
FL 6 @ 1'	-1	×	×	7	<i>,</i>	<	-
C FL 7 @ 3'	C 1	×	_	1	< >	< >	
S FL8@3'	C 1	×			× >	< >	
L FL9@0.5'	C 1	×			×	×	
S FL 10 @ 0.5'	C 1	×	X 6/17/24	Y	<	< !	
FL 11 @ 0.5'	_	× :	_	× >	× >	× >	
FL 12 @ 2'	C 1	×	X 6/17/24	×	×	×	
X FL 13 @ 3'	C 1	×	X 6/17/24	×	×	×	
FL 14 @	C 1	×	X 6/17/24	×	×	×	
PLEASE NOTE: Liability and Damages. Cardinal's liability and disease.	C 1	×	X 6/17/24	×	×	×	
nalyses. All claims including those for negligence and any other cause whatsoever shall be demanded available whether based in contract or tort, shall be limited to the amount paid by the client for the ervice. In no event shall Cardinal be liable for incidental or consequently damages, including whether based by Cardinal within 30 days after completion of the applicable ervice. In no event shall Cardinal be liable for incidental or consequently damages, including whether the properties of the applicable ervice.	ding those for negligence and any other cause whateverer shall be deemed water unless made in contract or tort, shall be limited to the amount paid by the client for the client for the cause whateverer shall be deemed water unless made in writing and received by Cardinal within 30 days after completion of the a Cardinal be liable for incidental or consequential damages, including without limitation, in the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the cause where the caus	r based in contract or tort, sh made in writing and received	all be limited to the amount pai by Cardinal within 30 days afte	id by the client for the ar completion of the applic			
affiliates or successors arising out of or related to the performance of	of services hereunder by Cardinal, regardless of w	hether such claim is based upon an	or loss of profits incurred by open any of the above stated re	dient, its subsidiaries, asons or otherwise.			
	Pate: 8-24 Received By:	-	11/1/1	Phone Result:	□ Yes	S U No	Add'l Phone #:
Mes	00	Water Co	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	REMARKS:	Lites		Add'l Fax #:
Juniahalan si	Time: Received By:		,				
Delivered By: (Circle One)		anic Condition		Please email copy of	ору о		COC and results to pm@etechenv.com.
Sampler - UPS - Bus - Other:	#/40 Samp	Inta	(Initials)				(
•	-3,10	No No	i ji				

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Etech Environmental & Safety Solutions, Inc.	ution	ıs, lı	nc.			- 1	- 1				6	BILL TO			1	1	1	1	ANA	5			2		1					1
Project Manager:	Joel Lowry								T	P.O. #:	*	- 1			7	$\dashv$	-		7	7100	2			2	ארשטבטו	-	1			-	
Address: 2617 W	2617 West Marland								0	Company	Par	٤	Permian Resources	200000000000000000000000000000000000000	_	_															
City: Hobbs	State: NM	Zi	Zip: 88240	824	Ö				>	Attn:	1	9	Montgomery Floyd	v Flovd																	
	14-9884 Fax #:								A	Address:	SSe						_													_	_
Project #: 19870	Project Owner:	91:	Р	Permian Resources	ian	Res	our	seo.	_	City		-					_														_
Project Name: Raic	Raider Fed Com 101H Spill #1								_	State:			Zin:		_			IB)							_					_	_
Project Location:	32.20917, -103.46866								0	Phone #	# ·		į		ride	015		8021										_		_	
Sampler Name: Martin Sepulveda	in Senulveda								1	9	7				lo		_	(8					_		_		_	_		_	_
FOR LAB USE ONLY	un sepulveda	1	1	1	1				F	Fax #:	"				Chi	_		EX													
FOR DAB DISE ONLY		Ρ,				MA	MATRIX	×		P	PRESERV.	핆	. SAMPLING	ING				ВТ													
Lab I.D.	Sample I.D.	(G)RAB OR (C)OME	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME																	
FL 1	16 @ 3'	C	1	_		_				_	×		6		×	<b>,</b>	+	۲	T			Γ	-		1			1		1	_
	FL 17 @ 4'	C	_			×					×		6/17/24		×	×	+	×	T												_
	FL 18 @ 4'	C	_			×					×		6/17/24		×	×	+	×													_
1U FL 19	9 @ 4'	C	_			×					×		6/17/24		×	×	+	×													_
PLEASE NOTE: Liability and Damag analyses. All claims including those is service. In no event shall Cardinal be	PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be determed warked unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without finitiation, business internations have a fuse or these of the services.	ny claim deemed	n arisin d waive	ng whe	ther b	ased in ade in	n con writing	tract of and g and	or tort	shall ved by	be lin	nited	to the amount pak	by the client for to	he applic	able	H														
Relinquished By:	By: Date: 5-74	Re	Received B	/ed	By:	mer s	uch c	am x	base	d upo	in any	of th	Received By:	Phone Result:	FF	□ Yes			8	Add'l Phone #-	one #	1	1						1		
Relinguished By:	Time:	Rec	Received By:	ed	By	8	6	8	1	1		Col		Fax Result:		□ Yes		No No	No.	Add'l Fax #	<b>*</b>										
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	cle One) #	140	6	0 (0	Sample Condition Cool Intact Yes Tres	Tes T	e Condi	Tes of the	Š	0 -	<b>₹</b> = ₩	T = S	CHECKED BY: (Initials)	Please email copy of	nail	сору		8	and	COC and results to pm@etechenv.com.	о рп	@	etec	he	nv.o	COM	-				
FORM-006 Revision 1.0	† Car	dina	2	<u> </u>	ă a	600	\$	erb	a l	ha	nge	Š	Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476	written ch	ang	es to	575-	393	-247												



June 20, 2024

JOEL LOWRY Etech Environmental & Safety Solutions 2617 W MARLAND

HOBBS, NM 88240

RE: RAIDER FED COM 101H SPILL #1

Enclosed are the results of analyses for samples received by the laboratory on 06/14/24 15:22.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Applyand By 14

Received: 06/14/2024 Reported: 06/20/2024

Project Name: RAIDER FED COM 101H SPILL #1

Project Number: 19870

Project Location: PERMIAN 32.20917, -103.46866

Sampling Date: 06/13/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FL 1 @ 3' (H243475-01)

DTEV 0021D

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	1.71	85.5	2.00	7.94	
Toluene*	<0.050	0.050	06/18/2024	ND	1.77	88.5	2.00	5.99	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	1.83	91.3	2.00	5.00	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	5.47	91.1	6.00	5.50	
Total BTEX	<0.300	0.300	06/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/18/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/18/2024	ND	200	99.8	200	2.63	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	198	98.9	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	129	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey & Keene



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 06/14/2024 Sampling Date: 06/13/2024

Reported: 06/20/2024 Sampling Type: Soil

Project Name: RAIDER FED COM 101H SPILL #1 Sampling Condition: Cool & Intact
Project Number: 19870 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: PERMIAN 32.20917, -103.46866

mg/kg

## Sample ID: FL 2 @ 3' (H243475-02)

BTEX 8021B

DILX GOZID	mg/	ng .	Allulyzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	1.71	85.5	2.00	7.94	
Toluene*	<0.050	0.050	06/18/2024	ND	1.77	88.5	2.00	5.99	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	1.83	91.3	2.00	5.00	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	5.47	91.1	6.00	5.50	
Total BTEX	<0.300	0.300	06/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/18/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/18/2024	ND	200	99.8	200	2.63	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	198	98.9	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					
Surrogate: 1-Chlorooctane	97.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 06/14/2024 Sampling Date: 06/13/2024

Reported: 06/20/2024 Sampling Type: Soil

Project Name: RAIDER FED COM 101H SPILL #1 Sampling Condition: Cool & Intact
Project Number: 19870 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: PERMIAN 32.20917, -103.46866

mg/kg

## Sample ID: FL 3 @ 4' (H243475-03)

BTEX 8021B

DILX GOZID	ıııg,	ng .	Allulyzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	1.71	85.5	2.00	7.94	
Toluene*	<0.050	0.050	06/18/2024	ND	1.77	88.5	2.00	5.99	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	1.83	91.3	2.00	5.00	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	5.47	91.1	6.00	5.50	
Total BTEX	<0.300	0.300	06/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/18/2024	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/18/2024	ND	200	99.8	200	2.63	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	198	98.9	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					
Surrogate: 1-Chlorooctane	95.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 06/14/2024 Sampling Date: 06/13/2024

Reported: 06/20/2024 Sampling Type: Soil

Project Name: RAIDER FED COM 101H SPILL #1 Sampling Condition: Cool & Intact
Project Number: 19870 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: PERMIAN 32.20917, -103.46866

mg/kg

## Sample ID: FL 4 @ 3' (H243475-04)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	1.71	85.5	2.00	7.94	
Toluene*	<0.050	0.050	06/18/2024	ND	1.77	88.5	2.00	5.99	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	1.83	91.3	2.00	5.00	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	5.47	91.1	6.00	5.50	
Total BTEX	<0.300	0.300	06/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/18/2024	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/18/2024	ND	200	99.8	200	2.63	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	198	98.9	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Kreine



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 06/14/2024 Sampling Date: 06/13/2024

Reported: 06/20/2024 Sampling Type: Soil

Project Name: RAIDER FED COM 101H SPILL #1 Sampling Condition: Cool & Intact
Project Number: 19870 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: PERMIAN 32.20917, -103.46866

mg/kg

## Sample ID: FL 5 @ 3' (H243475-05)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	.u Dy. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	1.71	85.5	2.00	7.94	
Toluene*	<0.050	0.050	06/18/2024	ND	1.77	88.5	2.00	5.99	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	1.83	91.3	2.00	5.00	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	5.47	91.1	6.00	5.50	
Total BTEX	<0.300	0.300	06/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/18/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/18/2024	ND	200	99.8	200	2.63	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	198	98.9	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					
Surrogate: 1-Chlorooctane	110	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	128	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 06/14/2024 Sampling Date: 06/13/2024

Reported: 06/20/2024 Sampling Type: Soil

Project Name: RAIDER FED COM 101H SPILL #1 Sampling Condition: Cool & Intact
Project Number: 19870 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: PERMIAN 32.20917, -103.46866

mg/kg

## Sample ID: NW 1 (H243475-06)

BTEX 8021B

DIEX GOZID	9/	rkg	Allulyzo	.u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	1.71	85.5	2.00	7.94	
Toluene*	<0.050	0.050	06/18/2024	ND	1.77	88.5	2.00	5.99	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	1.83	91.3	2.00	5.00	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	5.47	91.1	6.00	5.50	
Total BTEX	<0.300	0.300	06/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/18/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/18/2024	ND	200	99.8	200	2.63	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	198	98.9	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					
Surrogate: 1-Chlorooctane	110 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	127	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 06/14/2024

Sampling Date: 06/13/2024

Reported: 06/20/2024 Project Name: RAIDER FED COM 101H SPILL #1 Sampling Type: Soil

Project Number: 19870 Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

Project Location: PERMIAN 32.20917, -103.46866

Sample ID: NW 2 (H243475-07)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	1.91	95.3	2.00	7.17	
Toluene*	<0.050	0.050	06/18/2024	ND	2.05	102	2.00	5.93	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	2.06	103	2.00	4.92	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	6.42	107	6.00	4.34	
Total BTEX	<0.300	0.300	06/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/18/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/18/2024	ND	200	99.8	200	2.63	
DRO >C10-C28*	681	10.0	06/18/2024	ND	198	98.9	200	4.64	
EXT DRO >C28-C36	160	10.0	06/18/2024	ND					
Surrogate: 1-Chlorooctane	110 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	135 9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 06/14/2024 Reported: 06/20/2024 Sampling Date: 06/13/2024

Project Name: RAIDER FED COM 101H SPILL #1

Sampling Type: Soil

Project Number: 19870

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Project Location: PERMIAN 32.20917, -103.46866

## Sample ID: NW 3 (H243475-08)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	1.91	95.3	2.00	7.17	
Toluene*	<0.050	0.050	06/18/2024	ND	2.05	102	2.00	5.93	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	2.06	103	2.00	4.92	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	6.42	107	6.00	4.34	
Total BTEX	<0.300	0.300	06/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/18/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/18/2024	ND	200	99.8	200	2.63	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	198	98.9	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	123	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Soil

## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

06/14/2024

Sampling Date: 06/13/2024

Reported: 06/20/2024 Sampling Type:

Project Name: RAIDER FED COM 101H SPILL #1 Sampling Condition: Cool & Intact
Project Number: 19870 Sample Received By: Shalyn Rodriguez

Project Location: PERMIAN 32.20917, -103.46866

## Sample ID: EW 1 (H243475-09)

Received:

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	1.91	95.3	2.00	7.17	
Toluene*	<0.050	0.050	06/18/2024	ND	2.05	102	2.00	5.93	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	2.06	103	2.00	4.92	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	6.42	107	6.00	4.34	
Total BTEX	<0.300	0.300	06/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/18/2024	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/18/2024	ND	200	99.8	200	2.63	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	198	98.9	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					
Surrogate: 1-Chlorooctane	99.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114	% 49.1-14	8						

## Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 06/14/2024 Reported: 06/20/2024 Sampling Date: 06/13/2024 Sampling Type: Soil

Project Name:

RAIDER FED COM 101H SPILL #1 Sampling Condition:

Analyzed By: 14

Project Number: 19870

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Project Location: PERMIAN 32.20917, -103.46866

ma/ka

Sample ID: EW 2 (H243475-10)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	1.91	95.3	2.00	7.17	
Toluene*	<0.050	0.050	06/18/2024	ND	2.05	102	2.00	5.93	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	2.06	103	2.00	4.92	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	6.42	107	6.00	4.34	
Total BTEX	<0.300	0.300	06/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/18/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/18/2024	ND	200	99.8	200	2.63	
DRO >C10-C28*	390	10.0	06/18/2024	ND	198	98.9	200	4.64	
EXT DRO >C28-C36	91.9	10.0	06/18/2024	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	129	% 49.1-14	8						

**Cardinal Laboratories** 

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Kreine



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Analyzed By: JH

Sampling Date:

06/13/2024

Reported: Project Name:

Received:

BTEX 8021B

06/14/2024 06/20/2024

Sampling Type:

Soil

Project Name:

RAIDER FED COM 101H SPILL #1

mg/kg

Sampling Condition:

Cool & Intact

Project Number:

19870

Sample Received By:

Shalyn Rodriguez

Project Location:

PERMIAN 32.20917, -103.46866

## Sample ID: EW 3 (H243475-11)

DILX GOZID	ıııg,	, kg	Andryzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	1.91	95.3	2.00	7.17	
Toluene*	<0.050	0.050	06/18/2024	ND	2.05	102	2.00	5.93	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	2.06	103	2.00	4.92	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	6.42	107	6.00	4.34	
Total BTEX	<0.300	0.300	06/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/18/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/18/2024	ND	200	99.8	200	2.63	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	198	98.9	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					
Surrogate: 1-Chlorooctane	94.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

## Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 06/14/2024 Reported: 06/20/2024 Sampling Date: 06/13/2024 Sampling Type: Soil

Project Name:

RAIDER FED COM 101H SPILL #1

Sampling Condition: Cool & Intact

Project Number: 19870 Project Location: PERMIAN 32.20917, -103.46866 Sample Received By:

Shalyn Rodriguez

## Sample ID: SW 1 (H243475-12)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	1.91	95.3	2.00	7.17	
Toluene*	<0.050	0.050	06/18/2024	ND	2.05	102	2.00	5.93	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	2.06	103	2.00	4.92	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	6.42	107	6.00	4.34	
Total BTEX	<0.300	0.300	06/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/18/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/18/2024	ND	200	99.8	200	2.63	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	198	98.9	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					
Surrogate: 1-Chlorooctane	104 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120 9	% 49.1-14	8						

## Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 06/14/2024 Reported: 06/20/2024

19870

Sampling Date: 06/13/2024 Sampling Type: Soil

Project Name:

Project Location:

RAIDER FED COM 101H SPILL #1

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Project Number:

PERMIAN 32.20917, -103.46866

Sample ID: SW 2 (H243475-13)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	1.91	95.3	2.00	7.17	
Toluene*	<0.050	0.050	06/18/2024	ND	2.05	102	2.00	5.93	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	2.06	103	2.00	4.92	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	6.42	107	6.00	4.34	
Total BTEX	<0.300	0.300	06/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/18/2024	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/18/2024	ND	200	99.8	200	2.63	
DRO >C10-C28*	240	10.0	06/18/2024	ND	198	98.9	200	4.64	
EXT DRO >C28-C36	53.0	10.0	06/18/2024	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	127	% 49.1-14	18						

## **Cardinal Laboratories**

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 06/14/2024 Sampling Date: 06/13/2024

Reported: 06/20/2024 Sampling Type: Soil

Project Name: RAIDER FED COM 101H SPILL #1 Sampling Condition: Cool & Intact
Project Number: 19870 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: PERMIAN 32.20917, -103.46866

mg/kg

## Sample ID: SW 3 (H243475-14)

BTEX 8021B

	9/	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	1.91	95.3	2.00	7.17	
Toluene*	<0.050	0.050	06/18/2024	ND	2.05	102	2.00	5.93	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	2.06	103	2.00	4.92	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	6.42	107	6.00	4.34	
Total BTEX	<0.300	0.300	06/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/18/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/18/2024	ND	200	99.8	200	2.63	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	198	98.9	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 06/14/2024

Sampling Date:

Reported: 06/20/2024 Project Name: RAIDER FED COM 101H SPILL #1 Sampling Type: Soil

Project Number: 19870 Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

06/13/2024

Project Location: PERMIAN 32.20917, -103.46866

## Sample ID: WW 1 (H243475-15)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	1.91	95.3	2.00	7.17	
Toluene*	<0.050	0.050	06/18/2024	ND	2.05	102	2.00	5.93	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	2.06	103	2.00	4.92	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	6.42	107	6.00	4.34	
Total BTEX	<0.300	0.300	06/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/18/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/18/2024	ND	200	99.8	200	2.63	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	198	98.9	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					
Surrogate: 1-Chlorooctane	93.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109 9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 06/14/2024 Sampling Date: 06/13/2024

Reported: 06/20/2024 Sampling Type: Soil

Project Name: RAIDER FED COM 101H SPILL #1 Sampling Condition: Cool & Intact Project Number: Sample Received By: 19870 Shalyn Rodriguez

Project Location: PERMIAN 32.20917, -103.46866

# Sample ID: WW 2 (H243475-16)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	1.91	95.3	2.00	7.17	
Toluene*	<0.050	0.050	06/18/2024	ND	2.05	102	2.00	5.93	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	2.06	103	2.00	4.92	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	6.42	107	6.00	4.34	
Total BTEX	<0.300	0.300	06/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	6 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/18/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/18/2024	ND	200	99.8	200	2.63	
DRO >C10-C28*	415	10.0	06/18/2024	ND	198	98.9	200	4.64	
EXT DRO >C28-C36	107	10.0	06/18/2024	ND					
Surrogate: 1-Chlorooctane	101 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	130 9	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 06/14/2024 Sampling Date: 06/13/2024

Reported: 06/20/2024 Sampling Type: Soil

Project Name: RAIDER FED COM 101H SPILL #1 Sampling Condition: Cool & Intact
Project Number: 19870 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: PERMIAN 32.20917, -103.46866

mg/kg

# Sample ID: WW 3 (H243475-17)

BTEX 8021B

DILX GOZID	iiig/	, kg	Andryzo	.u Dy. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	1.91	95.3	2.00	7.17	
Toluene*	<0.050	0.050	06/18/2024	ND	2.05	102	2.00	5.93	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	2.06	103	2.00	4.92	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	6.42	107	6.00	4.34	
Total BTEX	<0.300	0.300	06/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/18/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/18/2024	ND	196	98.2	200	1.97	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	205	103	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					
Surrogate: 1-Chlorooctane	114 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



# **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  $6^{\circ}\text{C}$ 

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene

FORM-006 Revision 1.0

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476
Company Name: Etech Environmental & Safety Solutions

	(575) 393-2326 FAX	FAX (5/5) 393-24/6	l°			١	١	9	A		2	200		١	١			ANAL YSIS	SIS	- 1	REQUEST	TS				
Company Name:	Etech Environmental & Safety Solutions, Inc	& Safety Solution	ns,	Inc.							DILL	17 10		+	$\perp$	4	١.			- 11	7	1	$\dashv$	$\dashv$		_
Project Manager:	Joel Lowry							7	P.O.	#														_	1	
Address: 2617	2617 West Marland							C	m	Company	y	Permian Resources	urces				_							-		_
City: Hobbs		State: NM Z	Zip: 88240	882	40			A	Attn:		-	Montgomery Floyd	byd													
Phone #: (575)	(575) 264-9884	Fax #:						D	ddr	Address:	7.															
Project #: 19870		Project Owner:	_	Peri	Permian Resources	esou	ırce		City:					-	_	B)										-
Project Name: F	Raider Fed Com 101H Spill #1	oill #1						S	State:	::		Zip:			151	021										
Project Location:	32.20917, -103.46866	65						70	hor	Phone #:	7.77			nlor		X (8										
Sampler Name: Martin Sepulveda	Martin Sepulveda							=	Fax #:	<b>!</b> #						TE										_
FOR LAB USE ONLY			·.		_	MATRIX	_~~	-	P	-RES	PRESERV	SAMPLING	G	_		В										
Lab I.D.	Sample I.D.		RAB OR (C)OMP.	ONTAINERS	OUNDWATER STEWATER			JDGE	HER : ID/BASE:	/ COOL	HER:															
SCh2h7H			) (C			× S	О	_	_	_	_	6/13/24		×	×	×										
٥-	El 2 @ 3		C	_		×			_		×	6/13/24		×	×	×										$\perp$
27	FI 3 @ 4'		C	_		×			_		×	6/13/24		×	×	×										$\perp$
- 0	FI 4 @ 3'		C	_		×			_		×	6/13/24		×	×	×										
	O I		C	_		×					×	6/13/24		×	×	×										
	-		C	_		×					×	6/13/24		×	×	×										
ا	NW 2		C	_		×			_	-	×	6/13/24		×	×	×										$\perp$
<b>∞</b>	NW 3		C	_		×					×	6/13/24	L	×	×	×										
	EW 1		C	_		×					×	6/13/24		×	×	×										$\perp$
5	EW 2		C	_		×		L	L	L	×	6/13/24		×	×	>			١							$\perp$
PLEASE NOTE: Liability an analyses. All claims includi service. In no event shall C	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client's exclusive remedy for any claim arising whether based in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause what are caused unless that the shall be shall be for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, service. In no event shall be find the applicable of the applicable of the applicable and the applicable of the applicable of the applicable of the applicable of the applicable of the applicable of the applicable of the applicable of the applicable of the applicable of the applicable of the applicable of the applicable of the applicable of the applicable of the applicable of the applicable of the applicable of the applicable of the applicable of the applicable of the applicable of the applicable of the applicable of the applicable of the applicable of the applicable of the applicable of the applicable of the applicable of the applicable of the applicable of the applicable of the applicable of the applicable of the applicable of the applicable of the applicable of the applicable of the applicable of the applicable of the applicable of the applicable of the applicable of the applicable of the applicable of the applicable of the applicable of the applicable of the applicable of the applicable of the appl	nt's exclusive remedy for a ause whatsoever shall be uental damages, including	ny clair deeme	m arisi id waiv ut limit	ing whether red unless mation, busine	based hade in ess inte	in con writin	tract o	r tort, receiv ss of u	shall ted by	be limite Cardina r loss of	d to the amount paid I within 30 days after profits incurred by cl	by the client for the completion of the ent, its subsidiaries sons or otherwise.	e applicable s,	0											
Relinquished By	arising out of or related to the performance	Date: Received By:	R	_ cei	Received By:			,				>	Phone Result: Fax Result:	Ħ	☐ Yes		O No	Add'l	Add'l Phone #: Add'l Fax #:	e						
Reinquished By:	"Ma	Time:  SSA	Z)	ece	Received By:	0	MAC	2	5	2	5	4	Z BOILE													
		Time:											Please email copy of COC and results to pm@etechenv.com.	nail co	ору о	f CO	and	resu	lts to	pm@	)etecl	henv.	com.			
•	(Circle One) - Bus - Other:	041#100	F		Sampl	Sample Condition Cool Intact Pes Pes	Cond	nditi Ct Pes	on		수 H	(Initials)														
Sampler - Or S		. 4	1	'		□ No □ No	Ď	Z		-	h			١	١	١	١	١	١	١	١	١				l

Revision 1.0 FORM-006

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

Pag 101 East Mariai (575) 393-232	(575) 393-2326 FAX (575) 393-2476		
Company Name: Etech Environmental & Safety Solutions, Inc.	nmental & Safety Solutions, Inc.	BILL TO	ANALYSIS REQUEST
Company rames			
Project Manager: Joel Lowry		P.O. #:	
Address: 2617 West Marland		Company Permian Resources	,
City: Hobbs	State: NM Zip: 88240	Attn: Montgomery Floyd	
Phone #: (575) 264-9884	Fax #:	Address:	
	Domina Posourons	20	

Company Name: Project Manager:	(575) 393-2326 FAX (575) 393-2476  ame: Etech Environmental & Safety Solutions,  ager: Joel Lowry	lutions, Inc.	P.O. #:	BILL TO  Permian Resources	ès		
City: Hobbs Phone #: (575	bs State: NM (575) 264-9884 Fax #:	Zip: 88240	Attn: Address:	Montgomery Floyd	oyo	byd	byd
	70 Project Owner:	ner: Permian Resources	urces City:				)
ame:	Raider Fed Com 101H Spill #1		State:	Zip:		ide	ide
Project Location:	: 32.20917, -103.46866		Phone #:			nlori	_
Sampler Name:	Sampler Name: Martin Sepulveda		Fax #:	1			Cł
FOR LAB USE ONLY		MATRIX	RIX PRESERV.		SAMPLING	PLING	
Lab I.D.	Sample I.D.	G)RAB OR (C)OMP. CONTAINERS GROUNDWATER WASTEWATER SOIL	DIL SLUDGE DTHER: ACID/BASE: ICE / COOL	DATE		TIME	
	EW 3		× ×	6/13/24	+	××	
17	SW 1	_	< >	6/13/24	$\top$	× ;	+
2	SWZ	2 -	× :	6/13/24	П	×	×
7	WW 1	<u>.</u>	×	6/13/24		×	×
	WW 2		×	6/13/24		×	×
丁	WW 3	C 1	×	6/13/24		×	×
-				$\top$	$\vdash$		
A AL DES	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable services. In one event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, toss of use, or loss of profits incurred by client, its subsidiaries, services. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, toss of use, or loss of profits incurred by client, its subsidiaries, services.	ly for any claim arising whether base nall be deemed waived unless made cluding without limitation, business i	d in contract or tort, shall be lim in writing and received by Cardi terruptions, loss of use, or loss	ited to the amount painal within 30 days aft of profits incurred by	er con client,	id by the client for the er completion of the applica client, its subsidiaries, easons or otherwise.	id by the client for the er completion of the applicable client, its subsidiaries, easons or otherwise.
affiliates or successors frising Relinquished By:  Relinquished By:  Relinquished By:	By:  Time  By:  Date:  Date:  Date:  Date:  Date:  Date:	hereunder by Cardinal, regardless of whether such claim is based upon any or are above season.  Received By:  Received By:	ARIAN	Control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and the control and th	ע ע ע	Phone Result: Fax Result: REMARKS:	Phone Result:
10	Delivered By: (Circle One)	Sample Cool	Sample Condition CHE Cool Intact Cool No No	CHECKED BY: (Initials)			
					Į.		then changes to 575-393-2476



July 10, 2024

HOBBS, NM 88240

JOEL LOWRY
Etech Environmental & Safety Solutions
2617 W MARLAND

RE: SOLOMON FED COM 709H

Enclosed are the results of analyses for samples received by the laboratory on 07/03/24 14:41.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 07/03/2024 Sampling Date: 07/03/2024

Reported: 07/10/2024 Sampling Type: Soil

Project Name: SOLOMON FED COM 709H Sampling Condition: Cool & Intact
Project Number: Solomon FED COM 709H Sampling Condition: Cool & Intact
Solomon FED COM 709H Sampling Condition: Alyssa Parras

A .. . l. ... . d D. .. 311

Project Location: 32.1970251, -103.45345

# Sample ID: QUIAL RANCH PIT BACKFILL (H244016-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/10/2024	ND	1.92	96.2	2.00	6.01	
Toluene*	<0.050	0.050	07/10/2024	ND	1.95	97.6	2.00	3.03	
Ethylbenzene*	<0.050	0.050	07/10/2024	ND	1.97	98.6	2.00	3.11	
Total Xylenes*	<0.150	0.150	07/10/2024	ND	5.81	96.8	6.00	2.48	
Total BTEX	<0.300	0.300	07/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/09/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/09/2024	ND	102	102	100	2.67	
DRO >C10-C28*	<10.0	10.0	07/09/2024	ND	101	101	100	1.00	
EXT DRO >C28-C36	<10.0	10.0	07/09/2024	ND					
Surrogate: 1-Chlorooctane	73.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.4	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



# **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

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene

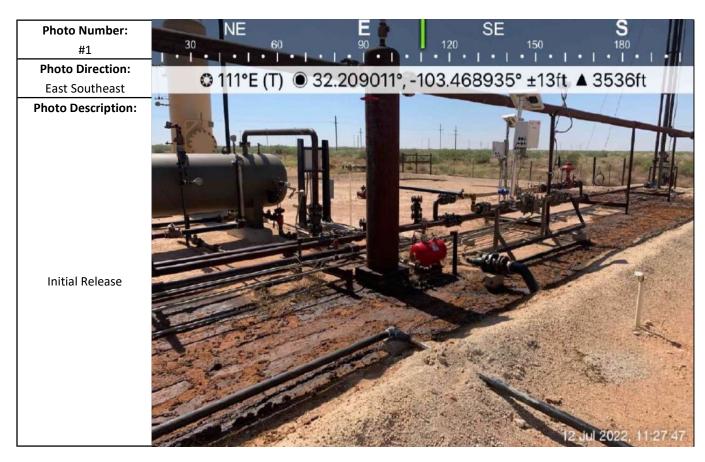
# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

		VI VVPst Marland	Addless
	7.0. 7.		
	PO #:	Joel Lowry	Ject mailager: Joel Lowry
1	DITT 10		Project Manager
1	DILL	Etech Environmental & Safety Solutions, Inc.	Company Name:
2000			Company Name
18		(575) 393-2326 FAX (575) 393-2476	
9		100003, IVIN 00240	
2		101 East Marland Hobbs NM 00040	_
4		CONTRAC LABORALORIES	
AIN-OT-CUSIC	(II)	DIVALLABORATORIES	AD

	(575) 393-2326 FAX (575) 393-2476	88240			2	8/8		
Company Name:		olutions, Inc.	0111			7/	Page 1 of 1	f 1
Project Manager:			P.O.#		a		ANALYSIS REQUEST	
ess:	2617 West Marland				as			$\dashv$
9	State: NM	Zip: 88240	>	d	sli			_
	(575) 264-9884 Fax #:		ess:		u			
4	13 Project Owner:	Permian Resources	City:		F			
Project Name:	Solomon Fed Com 709H							
Project Location:	n: 32.1970251, -103.45345		Dhono #.		ide 151			
Sampler Name:	Tania Felts		Prione #:			_		
FOR LAB USE ONLY			Fax #:			_		
TON DAB USE ONLY		MATRIX	PRESERV. SAMPLING			ВТЕ		
Lab I.D.	Sample I.D.		ASE: DOL (		,			
7 Junile		# CON GROU WAST SOIL OIL SLUDO	OTHER ACID/E ICE / C OTHER DATE	TIME				
	Ruali Nalicii Fil Backilli	×	X 7/3/24		×	×		$\mid$
EASE NOTE: Liability and I alyses. All claims including this continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the continue in the c	EASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the above. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable vive. In no event shall cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, the liable for incidental or the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated nasons or orbitancies.	y claim arising whether based in contract or tort, shall be limited to the deemed waived unless made in writing and received by Cardinal within, without limitation, business interruptions, loss of use, or loss of profits is ardinal, regardless of whether such claim is based upon any of the abo	ort, shall be limited to the amount pa relived by Cardinal within 30 days aft, of use, or loss of profits incurred by of ssed upon any of the above stated re	id by the client for the er completion of the app client, its subsidiaries,	licable			
elinguished By:	Time:	Received By:		Phone Result: Fax Result: REMARKS:		res □ No	Add'I Phone #: Add'I Fax #:	
Delivered By: (Circle One) ampler - UPS - Bus - Other FORM-006	#/10	Sample Condition Cool Intact Cyles Yes No No	CHECKED BY: (Initials)	Please email copy	сору с	of COC an	of COC and results to pm@etechenv.com.	
Revision 1.0	<b>→</b>	Cardinal cannot accept verbal changes. Please fax written changes to	changes. Please fax	written chang		575-393-2476	76	

# Appendix D Photographic Log

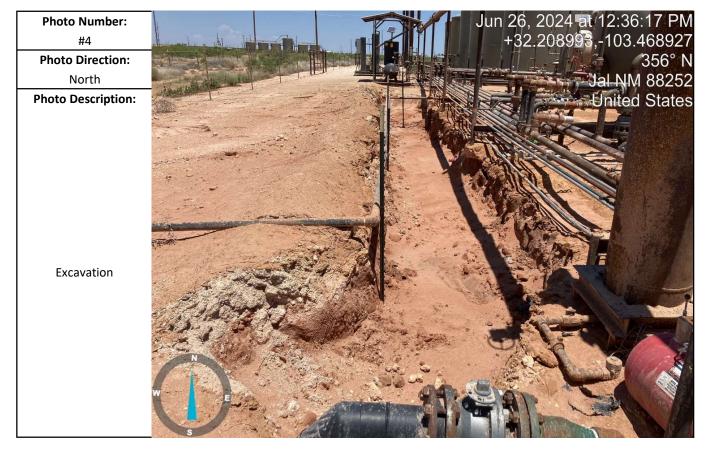
# Photographic Log





# Photographic Log





# Photographic Log

Photo Number:
#5

Photo Direction:
Southeast

Photo Description:

Backfill

Backfill



# Appendix E Regulatory Correspondence

From: OCDOnline@state.nm.us

**Sent:** Thursday, June 6, 2024 4:58 PM

**To:** Matthew Taylor

**Subject:** -EXTERNAL- The Oil Conservation Division (OCD) has accepted the application, Application ID:

351814

WARNING: The sender of this email could not be validated and may not match the person in the "From" field.

To whom it may concern (c/o Matthew Taylor for Permian Resources Operating, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2219045002.

The sampling event is expected to take place:

When: 06/10/2024 @ 07:00

Where: A-21-24S-34E 0 FNL 0 FEL (32.20917,-103.46866)

Additional Information: Martin Sepulveda martin@etechenv.com 432-3057322

**Additional Instructions:** From the intersection of NM-128 and Co Rd 2-B (32.210407, -103.466343), head S on Co Rd 2-B for 0.11 mi, then W for 0.14 mi to arrive at the Raider Fed Com 101H location (32.20917, -103.46866).

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505

From: OCDOnline@state.nm.us

**Sent:** Thursday, June 6, 2024 4:59 PM

**To:** Matthew Taylor

**Subject:** -EXTERNAL- The Oil Conservation Division (OCD) has accepted the application, Application ID:

351816

WARNING: The sender of this email could not be validated and may not match the person in the "From" field.

To whom it may concern (c/o Matthew Taylor for Permian Resources Operating, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2219045002.

The sampling event is expected to take place:

When: 06/11/2024 @ 07:00

Where: A-21-24S-34E 0 FNL 0 FEL (32.20917,-103.46866)

Additional Information: Martin Sepulveda martin@etechenv.com 432-3057322

**Additional Instructions:** From the intersection of NM-128 and Co Rd 2-B (32.210407, -103.466343), head S on Co Rd 2-B for 0.11 mi, then W for 0.14 mi to arrive at the Raider Fed Com 101H location (32.20917, -103.46866).

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505

From: OCDOnline@state.nm.us

**Sent:** Monday, June 10, 2024 10:48 AM

**To:** Matthew Taylor

**Subject:** -EXTERNAL- The Oil Conservation Division (OCD) has accepted the application, Application ID:

352546

WARNING: The sender of this email could not be validated and may not match the person in the "From" field.

To whom it may concern (c/o Matthew Taylor for Permian Resources Operating, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2219045002.

The sampling event is expected to take place:

When: 06/12/2024 @ 07:00

Where: A-21-24S-34E 0 FNL 0 FEL (32.20917,-103.46866)

Additional Information: Martin Sepulveda martin@etechenv.com 432-3057322

**Additional Instructions:** From the intersection of NM-128 and Co Rd 2-B (32.210407, -103.466343), head S on Co Rd 2-B for 0.11 mi, then W for 0.14 mi to arrive at the Raider Fed Com 101H location (32.20917, -103.46866).

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505

From: OCDOnline@state.nm.us

**Sent:** Monday, June 10, 2024 10:50 AM

**To:** Matthew Taylor

**Subject:** -EXTERNAL- The Oil Conservation Division (OCD) has accepted the application, Application ID:

352548

WARNING: The sender of this email could not be validated and may not match the person in the "From" field.

To whom it may concern (c/o Matthew Taylor for Permian Resources Operating, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2219045002.

The sampling event is expected to take place:

When: 06/14/2024 @ 07:00

Where: A-21-24S-34E 0 FNL 0 FEL (32.20917,-103.46866)

Additional Information: Martin Sepulveda martin@etechenv.com 432-3057322

**Additional Instructions:** From the intersection of NM-128 and Co Rd 2-B (32.210407, -103.466343), head S on Co Rd 2-B for 0.11 mi, then W for 0.14 mi to arrive at the Raider Fed Com 101H location (32.20917, -103.46866).

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505

From: OCDOnline@state.nm.us

**Sent:** Monday, June 10, 2024 10:52 AM

**To:** Matthew Taylor

**Subject:** -EXTERNAL- The Oil Conservation Division (OCD) has accepted the application, Application ID:

352550

WARNING: The sender of this email could not be validated and may not match the person in the "From" field.

To whom it may concern (c/o Matthew Taylor for Permian Resources Operating, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2219045002.

The sampling event is expected to take place:

When: 06/17/2024 @ 07:00

Where: A-21-24S-34E 0 FNL 0 FEL (32.20917,-103.46866)

Additional Information: Martin Sepulveda martin@etechenv.com 432-3057322

**Additional Instructions:** From the intersection of NM-128 and Co Rd 2-B (32.210407, -103.466343), head S on Co Rd 2-B for 0.11 mi, then W for 0.14 mi to arrive at the Raider Fed Com 101H location (32.20917, -103.46866).

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505

From: OCDOnline@state.nm.us

**Sent:** Monday, June 10, 2024 10:54 AM

**To:** Matthew Taylor

**Subject:** -EXTERNAL- The Oil Conservation Division (OCD) has accepted the application, Application ID:

352551

WARNING: The sender of this email could not be validated and may not match the person in the "From" field.

To whom it may concern (c/o Matthew Taylor for Permian Resources Operating, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2219045002.

The sampling event is expected to take place:

When: 06/19/2024 @ 07:00

Where: A-21-24S-34E 0 FNL 0 FEL (32.20917,-103.46866)

Additional Information: Martin Sepulveda martin@etechenv.com 432-3057322

**Additional Instructions:** From the intersection of NM-128 and Co Rd 2-B (32.210407, -103.466343), head S on Co Rd 2-B for 0.11 mi, then W for 0.14 mi to arrive at the Raider Fed Com 101H location (32.20917, -103.46866).

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505

From: OCDOnline@state.nm.us

**Sent:** Monday, June 10, 2024 10:56 AM

**To:** Matthew Taylor

**Subject:** -EXTERNAL- The Oil Conservation Division (OCD) has accepted the application, Application ID:

352552

WARNING: The sender of this email could not be validated and may not match the person in the "From" field.

To whom it may concern (c/o Matthew Taylor for Permian Resources Operating, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2219045002.

The sampling event is expected to take place:

When: 06/21/2024 @ 07:00

Where: A-21-24S-34E 0 FNL 0 FEL (32.20917,-103.46866)

Additional Information: Martin Sepulveda martin@etechenv.com 432-3057322

**Additional Instructions:** From the intersection of NM-128 and Co Rd 2-B (32.210407, -103.466343), head S on Co Rd 2-B for 0.11 mi, then W for 0.14 mi to arrive at the Raider Fed Com 101H location (32.20917, -103.46866).

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505

# Appendix F Electronic C-141 Supplemental Site Characterization Maps

# **Electronic C-141 Supplemental Documentation**

# Permian Resources Raider Fed Com 101H Spill #1

Lea County, New Mexico
Unit Letter, Section, Township South, Range East
Latitude 32.20917 North, Longitude 103.46866 West
NMOCD Reference No. nAPP2219045002

Prepared By:

Etech Environmental & Safety Solutions, Inc.

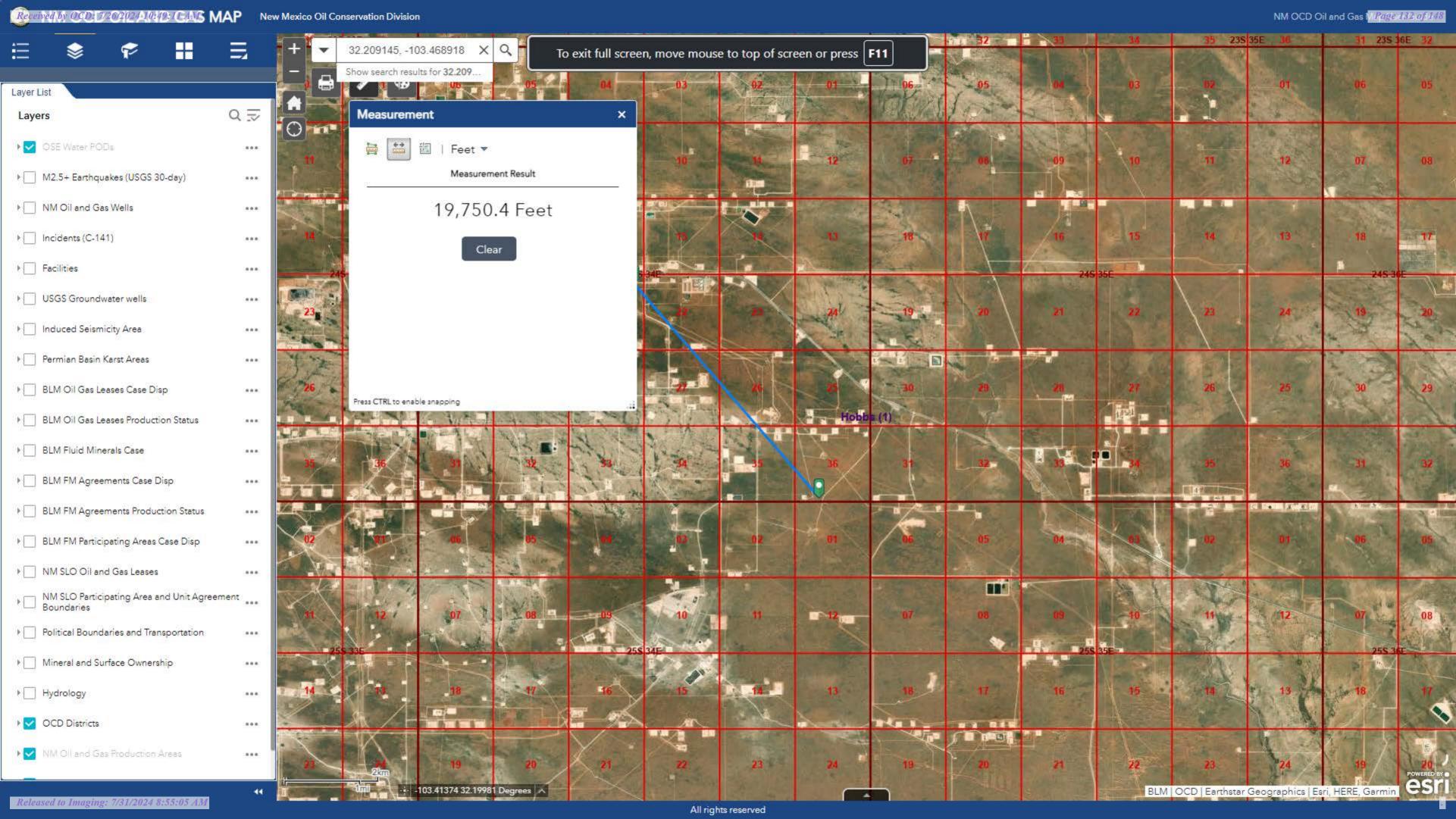
2617 W. Marland Hobbs, New Mexico 88240

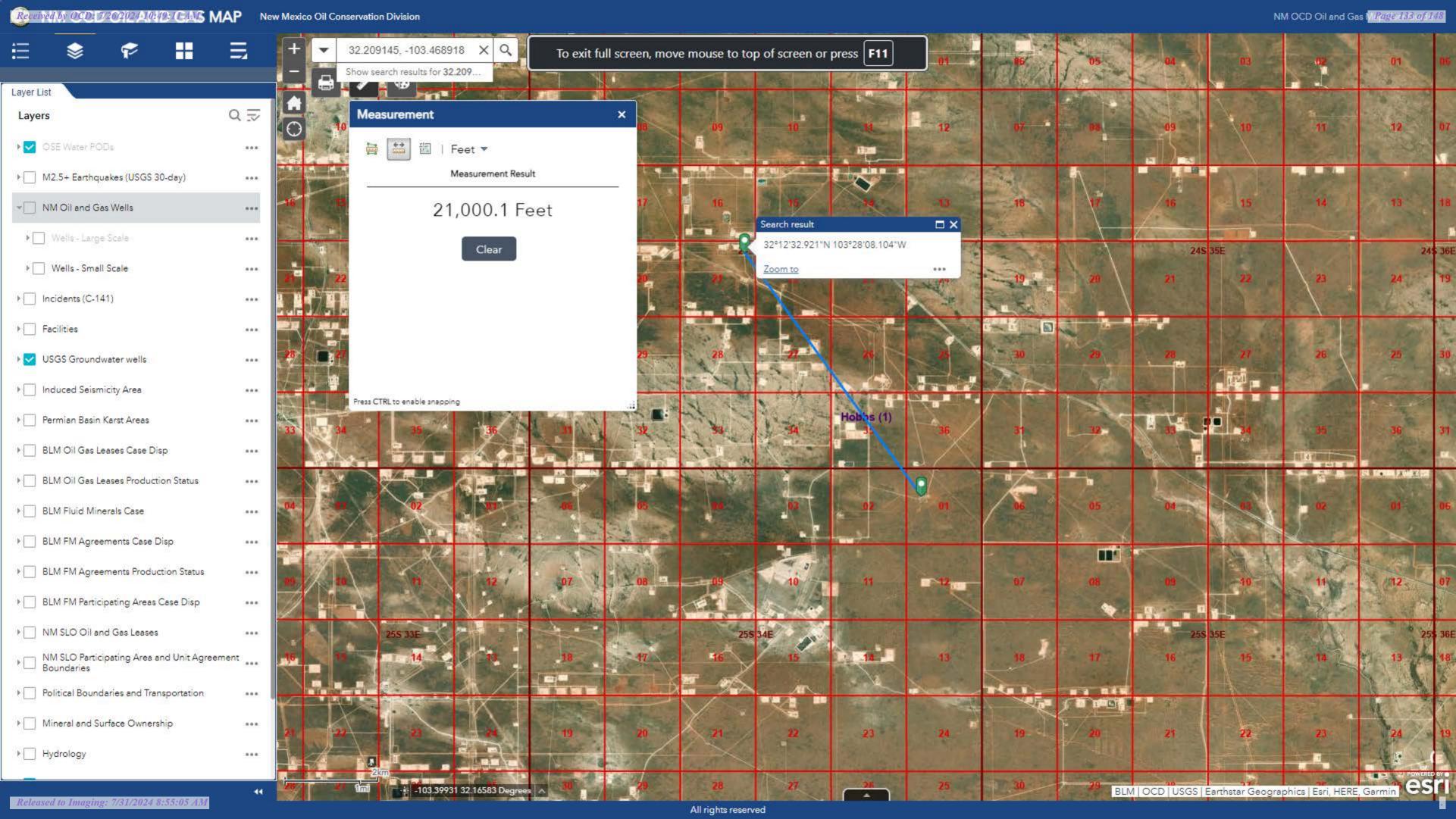
Robbie Runnels

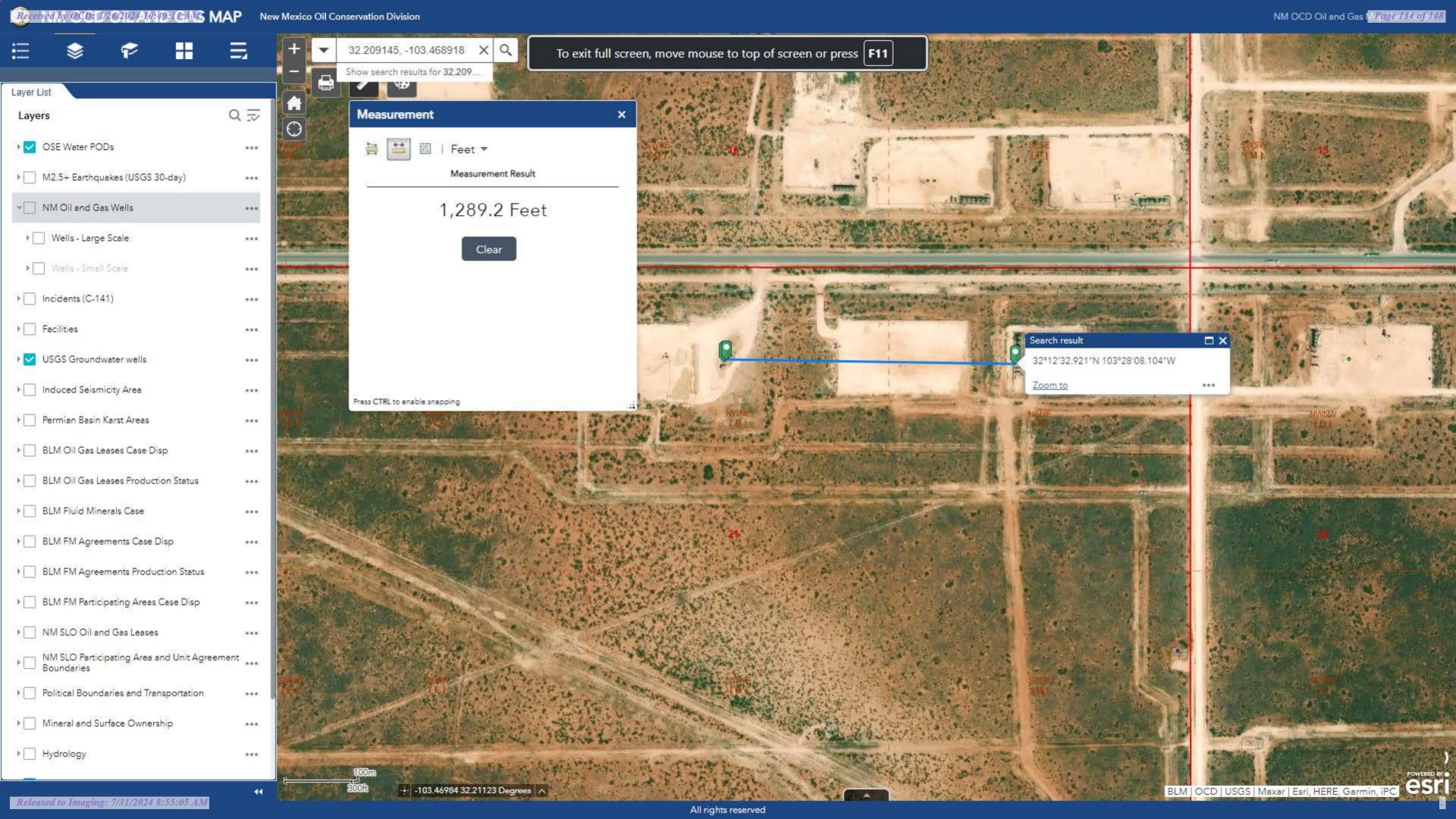
Joel W. Lowry



Midland • San Antonio • Lubbock • Hobbs • Lafayette







# MAP LAYERS >

☑ Wetlands

☑ Riparian ☐ Riparian Mapping Areas

☑ Data Source

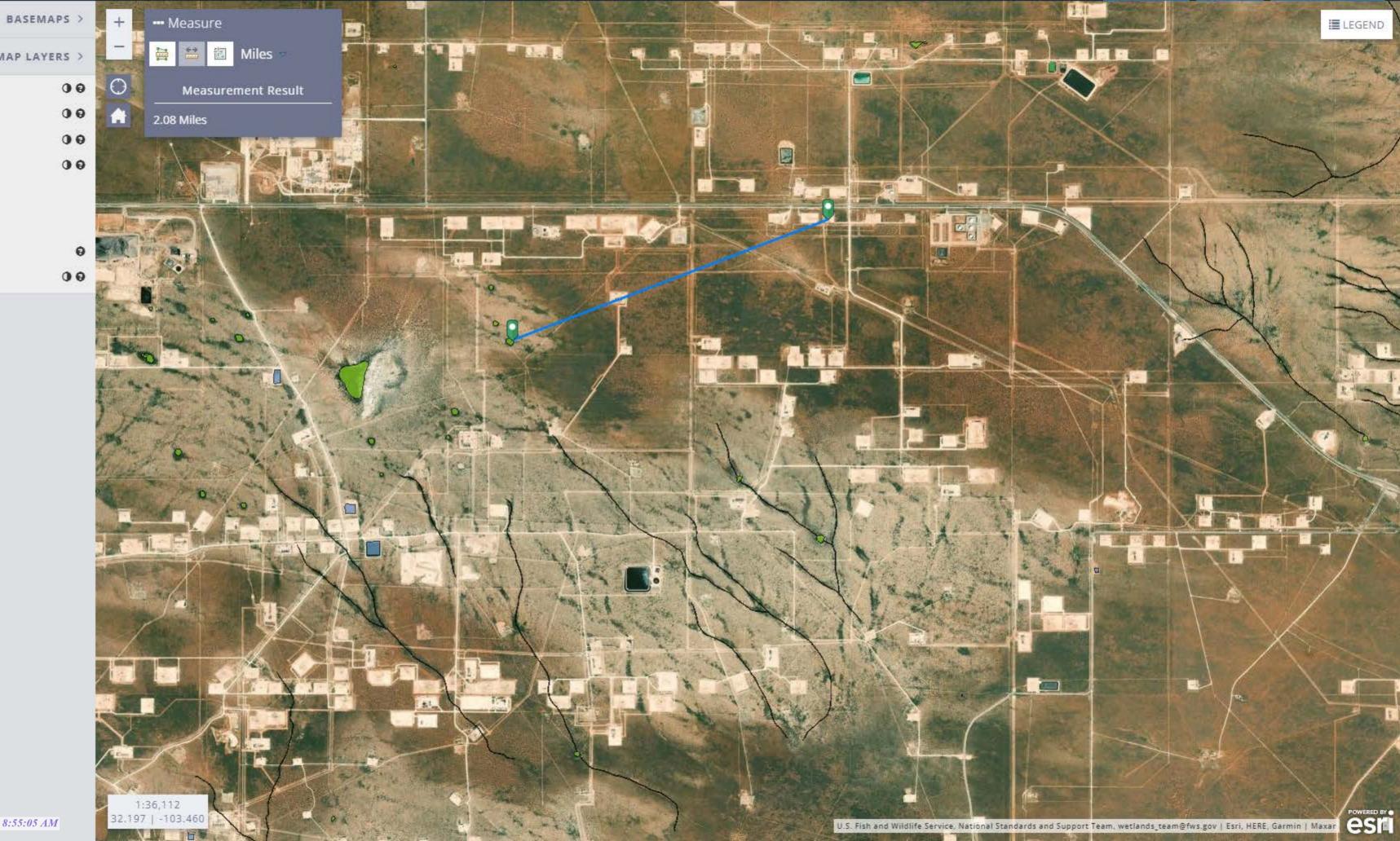
O Source Type

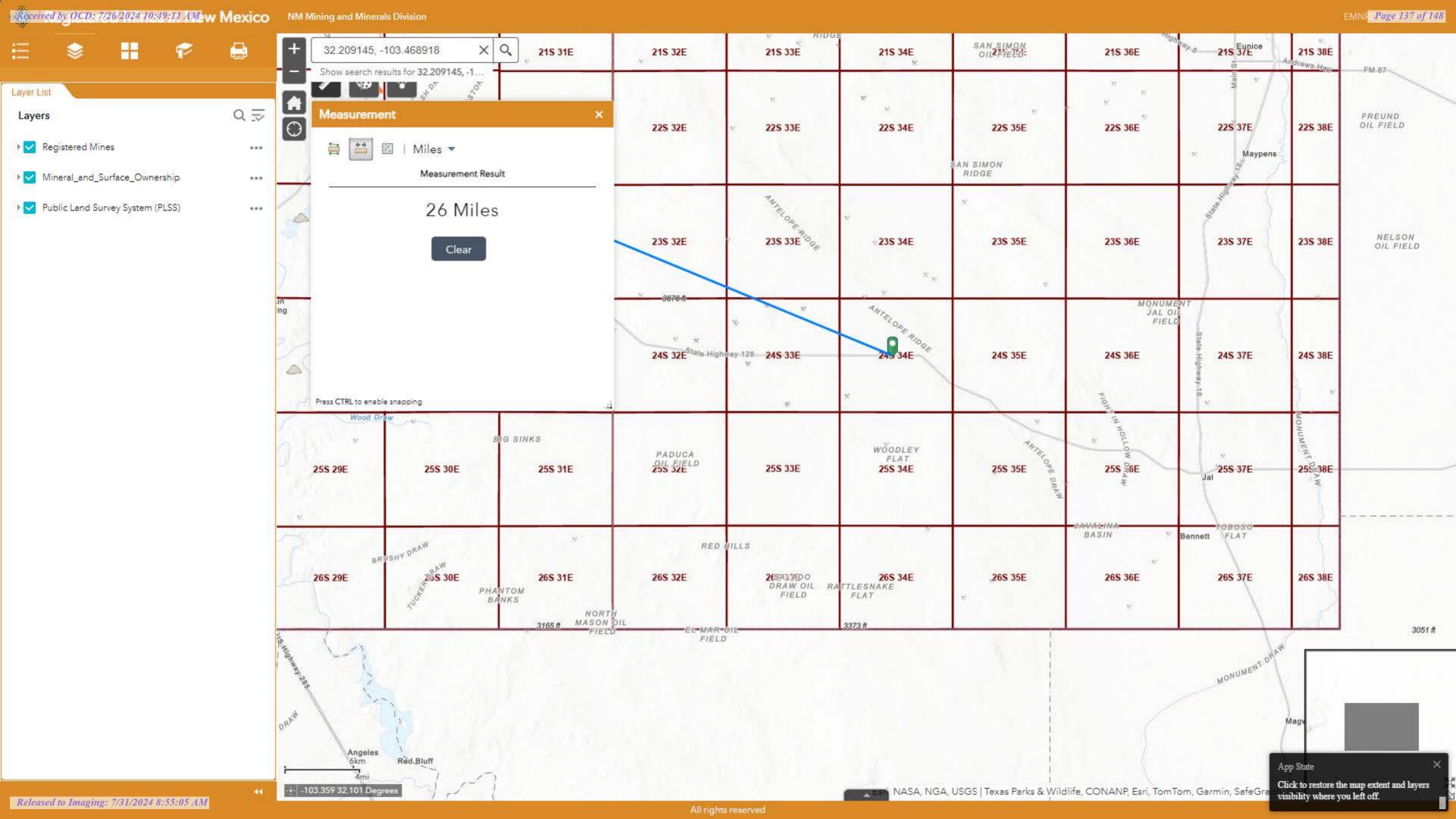
O Image Scale

O Image Year

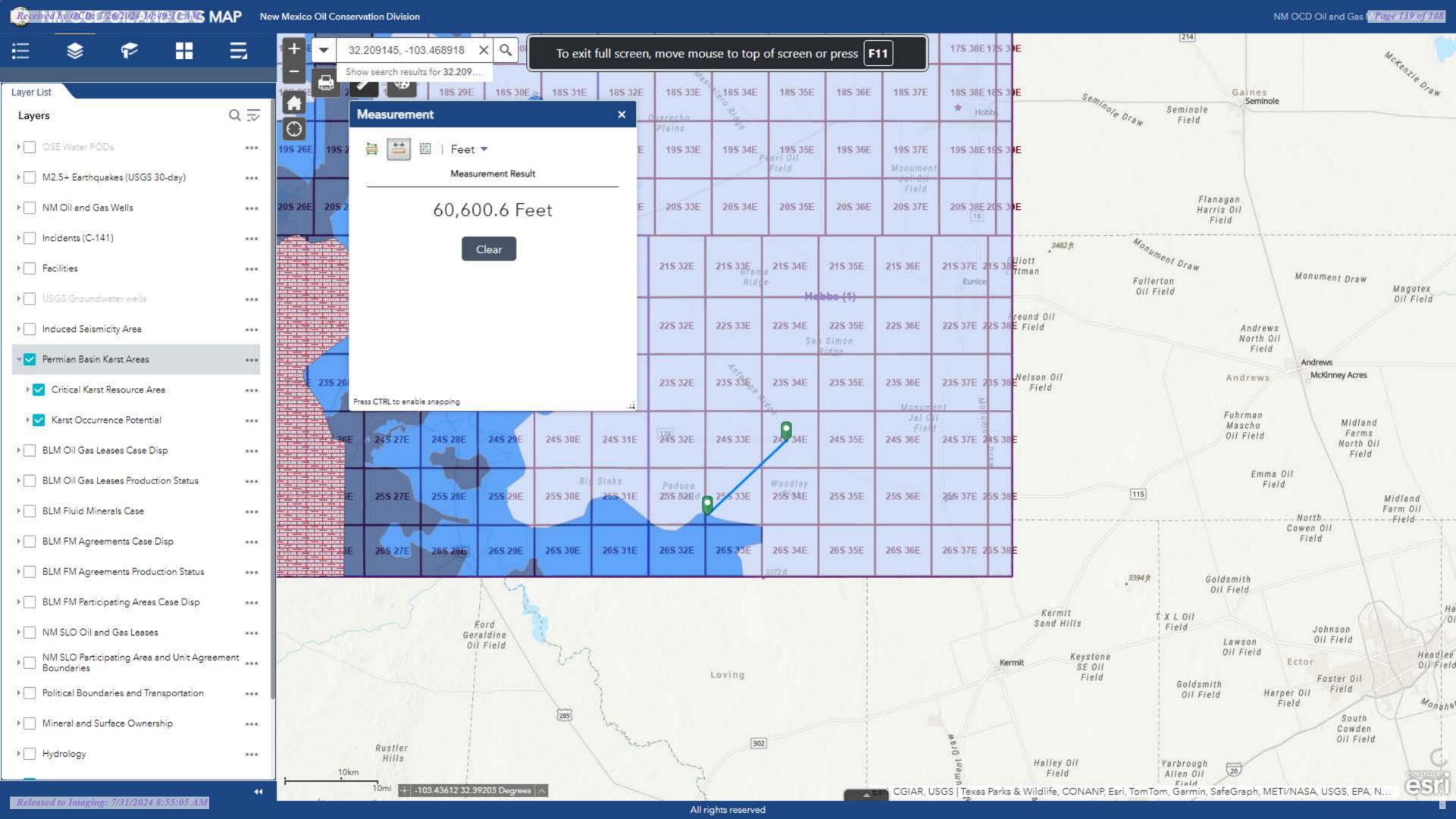
☑ Areas of Interest

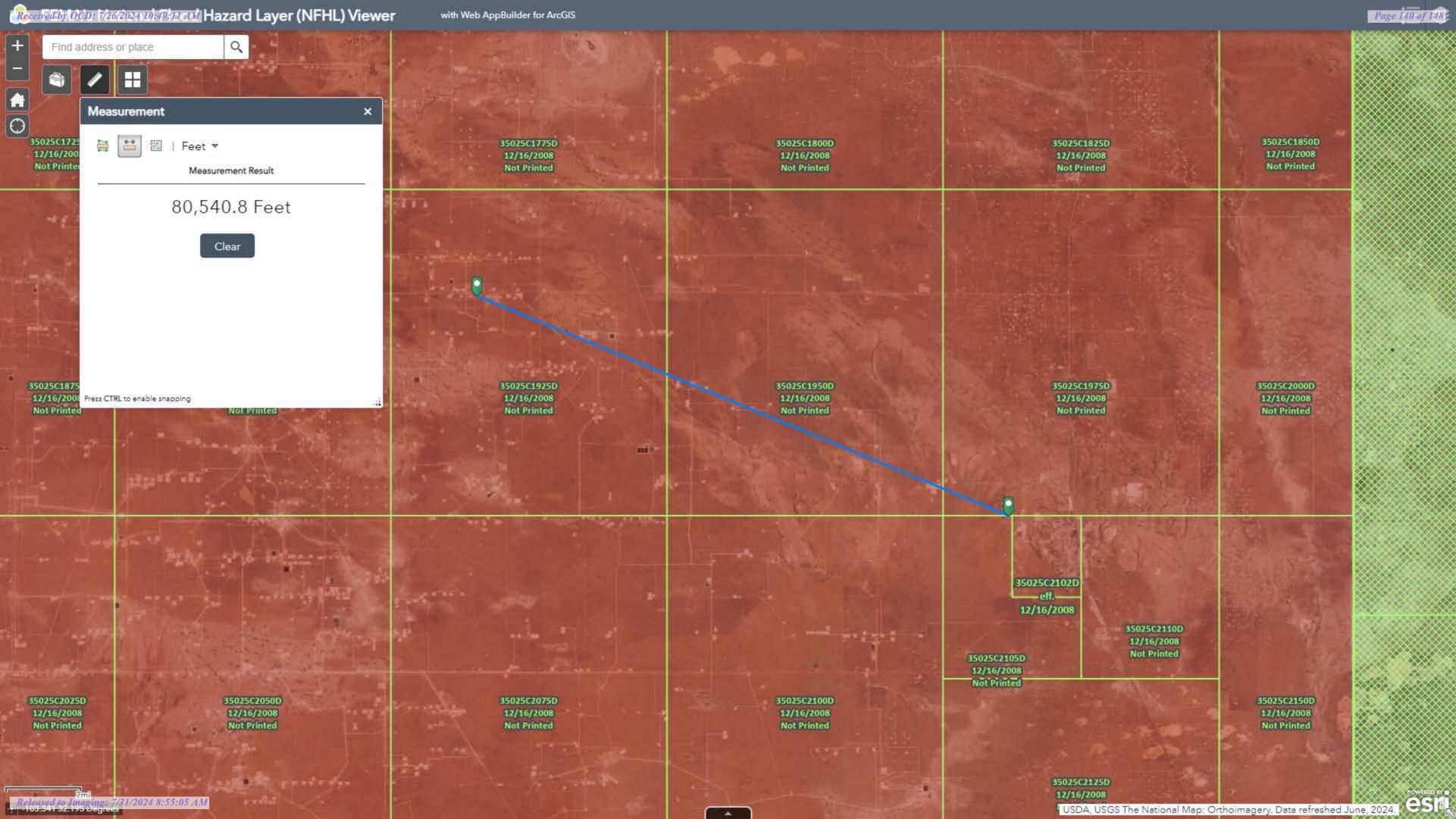
☐ FWS Managed Lands











<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 367589

# **QUESTIONS**

Operator:	OGRID:
Permian Resources Operating, LLC	372165
300 N. Marienfeld St Ste 1000	Action Number:
Midland, TX 79701	367589
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

# QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2329024748
Incident Name	NAPP2329024748 RAIDER FED COM 101H @ 30-025-43408
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-43408] RAIDER FEDERAL COM #101H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	RAIDER FED COM 101H
Date Release Discovered	10/15/2023
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Oil Release
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	Cause: Equipment Failure   Gasket   Crude Oil   Released: 80 BBL   Recovered: 65 BBL   Lost: 15 BBL.
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	Not answered.
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.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III
1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505

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

QUESTIONS, Page 2

Action 367589

Phone: (505) 476-3470 Fax: (505) 476-3462		
QUESTIONS (continued)		
Operator:	OGRID:	
Permian Resources Operating, LLC	372165	
300 N. Marienfeld St Ste 1000 Midland, TX 79701	Action Number: 367589	
Middle, 177701	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	
QUESTIONS		
Nature and Volume of Release (continued)		
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.	
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes	
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.	
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.	
Initial Response		
The responsible party must undertake the following actions immediately unless they could create a s	safety hazard that would result in injury.	
The source of the release has been stopped	True	
The impacted area has been secured to protect human health and the environment	True	
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True	
All free liquids and recoverable materials have been removed and managed appropriately	True	
If all the actions described above have not been undertaken, explain why	Not answered.	
	iation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.	
to report and/or file certain release notifications and perform corrective actions for release the OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or	
I hereby agree and sign off to the above statement	Name: Matthew Taylor Title: Environmental Coordinator Email: matthew.taylor@permianres.com	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 3

Action 367589

# **QUESTIONS** (continued)

Operator:	OGRID:
Permian Resources Operating, LLC	372165
300 N. Marienfeld St Ste 1000	Action Number:
Midland, TX 79701	367589
	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
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 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	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (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	None
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 of	delineated Yes	
Was this release entirely contained within a lined containment a	area No	
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)		
Chloride (EPA 300.0 or SM4500 Cl B)	48	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	4710	
GRO+DRO (EPA SW-846 Method 8015M)	3800	
BTEX (EPA SW-846 Method 8021B or	r 8260B) 2.8	
Benzene (EPA SW-846 Method 8021B o	or 8260B) 0.1	
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	06/13/2024	
On what date will (or did) the final sampling or liner inspection or	ccur 06/21/2024	
On what date will (or was) the remediation complete(d)	06/27/2024	
What is the estimated surface area (in square feet) that will be re	reclaimed 3300	
What is the estimated volume (in cubic yards) that will be reclain	med 360	
What is the estimated surface area (in square feet) that will be re	emediated 13360	
What is the estimated volume (in cubic yards) that will be remed	liated 900	
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.

District I

1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 **District II** 

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 **District III** 

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170 District IV

<u>District IV</u> 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 4

Action 367589

**QUESTIONS** (continued)

Operator:	OGRID:
Permian Resources Operating, LLC	372165
300 N. Marienfeld St Ste 1000	Action Number:
Midland, TX 79701	367589
	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 off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	OWL LANDFILL JAL [fJEG1635837366]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site 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 on-site 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: Matthew Taylor Title: Environmental Coordinator Email: matthew.taylor@permianres.com

Date: 07/26/2024

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.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 5

Action 367589

**QUESTIONS** (continued)

Operator:	OGRID:
Permian Resources Operating, LLC	372165
300 N. Marienfeld St Ste 1000	Action Number:
Midland, TX 79701	367589
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

# QUESTIONS

Deferral Requests Only	
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

District I

1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 **District II** 

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 **District III** 

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462 State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 6

Action 367589

# **QUESTIONS** (continued)

Operator:	OGRID:
Permian Resources Operating, LLC	372165
300 N. Marienfeld St Ste 1000	Action Number:
Midland, TX 79701	367589
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

# QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	352561
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/21/2024
What was the (estimated) number of samples that were to be gathered	100
What was the sampling surface area in square feet	14000

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	13360	
What was the total volume (cubic yards) remediated	900	
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	10000	
What was the total volume (in cubic yards) reclaimed	900	
Summarize any additional remediation activities not included by answers (above)	Remediation has been completed at the site.	

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.

Name: Matthew Taylor
Title: Environmental Coordinator
Email: matthew.taylor@permianres.com
Date: 07/26/2024

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 7

Action 367589

# **QUESTIONS** (continued)

Operator:	OGRID:
Permian Resources Operating, LLC	372165
300 N. Marienfeld St Ste 1000	Action Number:
Midland, TX 79701	367589
	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	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 367589

# **CONDITIONS**

Operator:	OGRID:
Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	372165
	Action Number:
	367589
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

# CONDITIONS

Created By	Condition	Condition Date
bhall	Remediation closure approved. A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	7/31/2024
bhall	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	7/31/2024
bhall	Operator failed to provide proper Sampling Notification pursuant to 19.15.29.12.D.(1).(a) NMAC. Failure to provide proper sampling notice is a compliance issue and OCD may pursue compliance actions pursuant to 19.15.5 NMAC. Operator shall ensure future compliance with 19.15.29.12.D.(1).(a) NMAC. Confirmation samples collected on 6/13/2024, 6/18/2024, and 6/24/2024 do not have corresponding sampling notifications.	7/31/2024