

June 30, 2023

District Supervisor
Oil Conservation Division, District 1
1625 North French Drive
Hobbs, New Mexico 88240

Re: Release Characterization and Remediation Report
Maverick Permian, LLC
SEMU Permian Upper Battery Release
Unit Letter K, Section 19, Township 20 South, Range 38 East
Lea County, New Mexico
Incident ID# nAPP2207049431

Dear Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contracted by the previous site owner (ConocoPhillips) to assess a Heritage Concho release and subsequent remedial actions taken at the Southeast Monument Unit (SEMU) Permian Upper Battery. The release footprint is located in Public Land Survey System (PLSS) Unit Letter K, Section 19, Township 20 South, Range 38 East, in Lea County, New Mexico (Site). There were two releases that occurred on the same day, with adjacent footprints. The approximate release point for the Mist occurred at coordinates 32.558347°, -103.190526°, and the approximate release point for the Vent occurred at coordinates 32.558113°, -103.190504°, as shown in **Figures 1** and **2**.

BACKGROUND

According to the State of New Mexico Oil Conservation Division (NMOCD) C-141 Initial Report, the releases were discovered on February 24, 2022. The C-141 documentation reports that the releases occurred due to a mechanical failure of a two-phase horizontal separator. Overpressure at the separator caused the relief valve to pop-off and mist the pad area to the south and west. The separator failure caused a vent release to occur on the gas sales line, concurrent with the two-phase separator release. The vent release point is located south of the SEMU Permian Upper Battery pad. This release vented an area south and east in the pastureland. Approximately 8.14 barrels (bbls) of produced water and 0.7 bbls of crude oil were reported released. Fluid released from the combined two locations affected an area of approximately 7,750 square feet of pad and pastureland. The NMOCD received the initial C-141 on March 11, 2022, and subsequently assigned the release Incident ID nAPP2207049431. The initial C-141 form is included in **Attachment 1**.

Tetra Tech, Inc.

1500 CityWest Boulevard, Suite 1000, Houston, TX 77042 **Tel** +1.832.281.5160 | tetratech.com/oga | tetratech.com

Maverick Permian, LLC June 30, 2023

SITE CHARACTERIZATION

Tetra Tech performed a site characterization was performed which identified no watercourses, sinkholes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, playa lakes, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains within the distances specified in 19.15.09 New Mexico Administrative Code (NMAC). The Site is in an area of low karst potential. According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are no water wells located within an 800-meter (approximately ½ mile) radius of the release location. The NMOSE identifies one (1) water well with water level data approximately 1.7 miles from the Site with a depth to groundwater at 70 feet below ground surface (bgs).

The remediation action levels proposed for the Site are largely dependent upon depth to groundwater. As such, the OCD focuses upon depth to water estimation. Thus, 19.15.11(A)(2) NMAC allows for various means of determining the depth to groundwater. For this release, as the available water level information was from wells further than ½ mile away from the site, ConocoPhillips and Maverick reviewed adjacent release sites with approved Work Plans for the possibility of associated borings which could provide a means for determining depth to groundwater in the vicinity of nAPP2207049431 release area. As such, subsurface data from the SEMU Burger B 108 Release Site (nAPP2228376108) and SEMU BMT Battery Tank Release Site (nOY1727735399) were reviewed.

One boring (L-15414-POD1) was drilled as part of the SEMU Burger B 108 release characterization identified on September 27, 2022, at the SEMU Burger B 108 well pad, identified approximately 0.7-miles east of the Sites release footprint. The boring was drilled to a total depth of 103 feet bgs where a temporary monitoring well was installed which reported a static groundwater level of 110.0 feet bgs. The borehole was plugged. The borehole coordinates are 32.556523°, -103.178215°

One boring (BH-2A/2R) drilled as a portion of the SEMU BMT Battery Tank release characterization was identified as located within a roughly 0.7-mile radius of the SEMU Permian Upper Battery release footprint. A review of the associated boring logs indicates boring BH-2A/2R does not define the depth to groundwater but was dry to a depth of 51 feet bgs. The borehole was plugged with 3/8" bentonite chips on September 23, 2021. The borehole coordinates are 32.553388°, -103.175938°.

Thus, based on the above available data ConocoPhillips proposed to use the 51 feet – 100 feet criteria listed in Table I of 19.15.29.12 NMAC as remediation criteria for the Site which was presented in the Site Characterization and Remediation Work Plan for the Site approved by the NMOCD. The boring logs from the SEMU Burger B 108 Release and SEMU BMT Battery Tank Release investigations are included in **Attachment 2** along with the other site characterization data.

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REGULATORY FRAMEWORK

Based upon the release footprint location and in accordance with Subsection E of 19.15.29.12 NMAC, per 19.15.29.11 NMAC, the site characterization data was used to determine recommended remedial action levels (RRALs) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chlorides in soil.

Based on the site characterization, established depth to groundwater, and in accordance with Table I of 19.15.29.12 NMAC, the remediation RRALs for the Site are as follows:

Remediation RRALs

Constituent	Site RRALs
Chloride	10,000 mg/kg
ТРН	2,500 mg/kg
ВТЕХ	50 mg/kg
Benzene	10 mg/kg

Additionally, in accordance with the NMOCD guidance *Procedures for Implementation of the Spill Rule (19.15.29 NMAC)* (September 6, 2019), the following reclamation requirements for surface soils (0-4 feet bgs) outside of active oil and gas operations are as follows:

Reclamation Requirements

Constituent	Site Reclamation Requirements
Chloride	600 mg/kg
ТРН	100 mg/kg

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INITIAL RESPONSE ACTIVITIES

In accordance with 19.15.29.8.B.(4) NMAC that states "the responsible party may commence remediation immediately after discovery of a release", ConocoPhillips elected to begin remediation of the impacted area footprint in 2022. The release extents consisted of approximately 3,000 square feet of oil and gas lease pad and roughly 1,600 square feet of pastureland.

Initial response remedial actions were performed at the release site between April 7 and 11, 2022. Visually stained areas of the pastureland were scraped to remove impacted materials to approximately 1-foot bgs, resulting in approximately 46 cubic yards of contaminated soil being removed and transported to the R360 Halfway Facility in Hobbs, New Mexico for disposal. The initial response area is indicated in **Figure 3**.

SITE ASSESSMENT SUMMARY

In order to achieve vertical and horizontal delineation of the release extents, Tetra Tech personnel mobilized to the Site and conducted soil sampling on May 4, 2022. A total of nine (9) boreholes were advanced in the vicinity of the release area. Six (6) borings (AH-1 through AH-6) were installed around the perimeters of the release extents to a depth of 1-foot bgs to determine the lateral extent of impacted soil. The remaining three (3) borings (AH-7 through AH-9) were installed within the release footprints to depths ranging from 1 to 3 feet bgs to determine the extent of vertical impacts of the release. Assessment boring locations are presented in **Figure 4**.

A total of eleven (11) samples were collected from the nine (9) borings and submitted to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico to be analyzed for total petroleum hydrocarbons (TPH) Gasoline Range Organics (GRO), Diesel Range Organics (DRO), and Oil Range Organics (ORO) by EPA Methods 8015 and 8015D, benzene, toluene, ethylbenzene, and total xylenes, BTEX by EPA Method 8260B, and chloride by EPA Method 4500.0.

Results from the May 4, 2022, soil sampling event are summarized in **Table 1**. The analytical results associated with boring locations AH-8 and AH-9 exceeded the reclamation requirement and Site RRALs for TPH to the total boring depth of 3 feet. The results associated with the remainder of the analyzed samples were below the Site proposed RRALs and/or reclamation requirements for BTEX, TPH, and chloride. Neither vertical nor horizontal delineation of the "Vent" release was achieved during the May 4 assessment activities. Analytical results associated with the "Mist" release were below Site RRALs and reclamation requirements.

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ADDITIONAL DELINEATION ACTIVITIES AND RESULTS

Tetra Tech personnel returned to the Site on May 20, 2022, to complete vertical and horizontal delineation of the "Vent" release extent. A total of two (2) borings (AH-10 and AH-11) were advanced in the vicinity of the release area. One (1) boring (AH-10) was installed southeast of the perimeter of the release extent to a depth of 1-foot bgs to determine the lateral extent of the impacted soil. One (1) boring (AH-11) was installed within the release extent to a depth of 6 feet bgs to determine the vertical impact of the release. These additional boring locations are presented in **Figure 4**.

A total of three (3) samples were collected from the two (2) borings and submitted to Cardinal for analysis of BTEX, TPH (GRO, DRO, and ORO), and chloride.

Results from the May 20, 2022, soil sampling event are summarized in **Table 1**. The analytical results associated with boring location AH-11 exceeded the reclamation requirement and Site RRALs for TPH in the 3'-4' interval. The results associated with the remainder of the samples analyzed reported concentrations of BTEX, TPH, and chloride as less than the Site RRALs and/or reclamation requirements achieving both horizontal and vertical delineation of the "Vent" release.

REMEDIATION WORK PLAN

The Release Characterization and Remediation Work Plan (Work Plan) was prepared by Tetra Tech on behalf of ConocoPhillips. It was submitted and received by NMOCD on May 29, 2022, with fee application payment with PO Number YOL8A-220529-C-1410. The Work Plan described the results of the release assessment and provided a characterization of the impact at the site. The Work Plan was approved via email by Jennifer Nobui on 6/7/2022.

REMEDIATION AND CONFIRMATION SAMPLING

Based on the soil assessment and delineation results for the release and the approved remediation work plan, excavation activities commenced on May 31, 2023, and concluded on June 22, 2023. Maverick's subcontractor, SDR Enterprises, used heavy equipment to excavate 580 cubic yards of impacted soil from the remediation areas as shown in **Figure 5** to maximum depths of 4 feet below the surrounding ground surface. To avoid any potential contact by heavy equipment with the pressurized lines, heavy equipment was maintained at a distance of at least 2 feet from pressurized lines and hydro excavation was utilized to excavate around active lines in the remediation footprint. Excavated soil was transported offsite and disposed of at Sundance Disposal in Eunice, New Mexico.

Upon reaching the final lateral and vertical excavation extents, twelve (12) confirmation samples were collected, including 4 from the floors and 8 from the side walls of the excavated areas and submitted to Cardinal Laboratory in Hobbs, NM for analysis of chloride (SM4500 CL-B), TPH (8015M), and BTEX (8021B). Laboratory analytical results for submitted confirmation samples reported chloride, TPH, and BTEX concentrations below respective Reclamation Requirements for all samples. On June 22, 2023, subsequent to the receipt of

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confirmation sample results, SDR completed backfilling of the excavated areas with 560 cubic yards of clean topsoil sourced from the Bob McCassland pit.

The remediation was performed in stages beginning with hydro excavation to expose known and potential production lines within the remediation area. Then, working from the north side of the remediation excavation to the south, a porting of the excavation was completed around and beneath exposed production lines before confirmation sampling was conducted, and upon receipt of confirmation sampling results, backfilling with clean material was conducted as excavation moved southward to before moving to the next portion of the excavation. The NMOCD was notified ahead of backfilling via email to OCDOnline@state.nm.us on June 15, 2023.

Confirmation sampling results are summarized in **Table 2** and laboratory analytical data packages including chain of custody documentation are included in **Attachment 3**. Photographic Documentation showing the excavated areas and final grading after backfilling is provided in **Attachment 4**.

CONCLUSIONS

Based on the results of the confirmation sampling, the impacted soil within the release footprint with BTEX, TPH, or chloride at concentrations greater than Reclamation Requirements has been removed and properly disposed of; therefore, Site remediation is complete. The excavated area has been backfilled with clean material and backfilled areas have been graded back to match the surrounding topography. The disturbed areas resulting from remediation will be seeded in the next growing season to aid in vegetation growth and to complete reclamation. The seed mixture to be used is provided in **Attachment 5**. If you have any questions concerning the remediation activities for the Site, please call me at (832) 251-2093 or Steve at (713) 806-8871.

Sincerely,

Charles H. Terhune IV, P.G.

Program Manager

Tetra Tech, Inc.

Stephen Jester

Program Manager

Tetra Tech, Inc.

Cc:

Mr. Bryce Wagoner – Maverick Natural Resources

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LIST OF ATTACHMENTS

Figures

Figure 1 – Overview Map

Figure 2 - Topographic Map

Figure 3 – Approximate Release Extent and Initial Excavation Map

Figure 4 – Release Assessment Map

Figure 5 - Remediation Extent and Confirmation Sample Locations

Tables

Table 1 – Summary of Analytical Results – Soil Assessment

Table 2 – Summary of Analytical Results – Confirmation Samples

Appendices

Attachment 1 – C-141 Form

Attachment 2 - Site Characterization Data

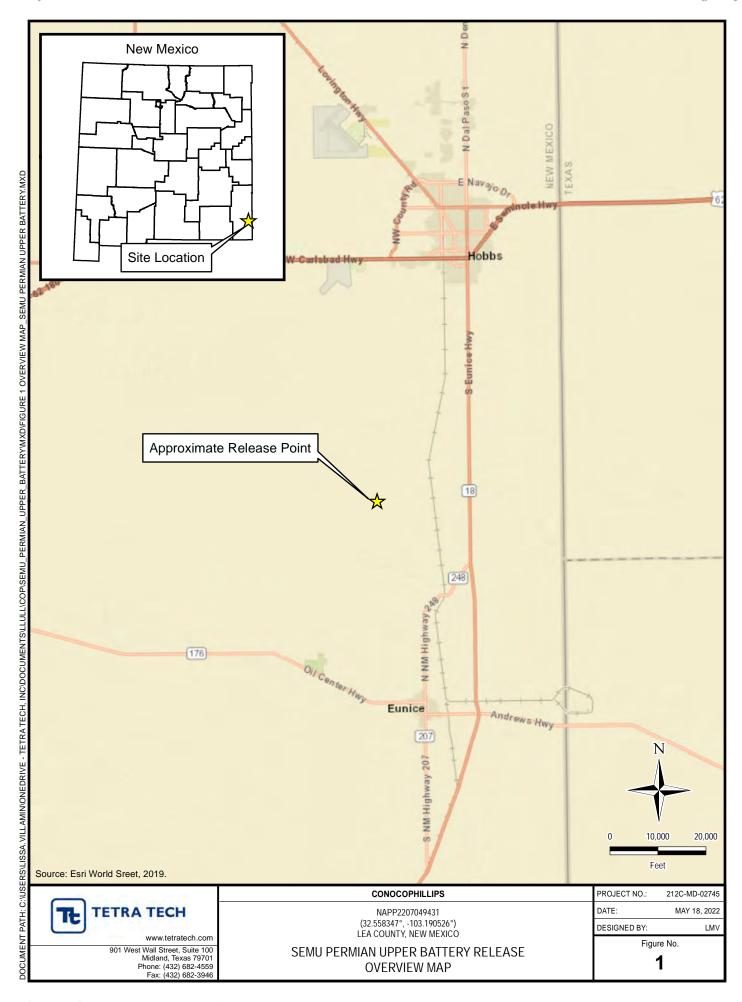
Attachment 3 - Laboratory Analytical Data

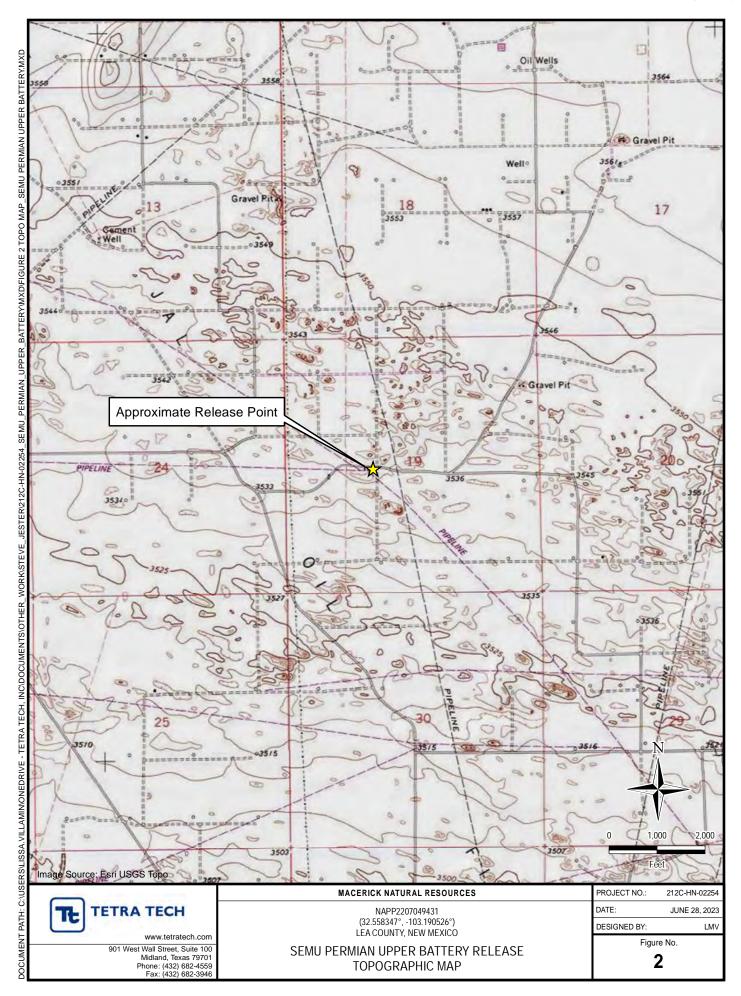
Attachment 4 – Photographic Documentation

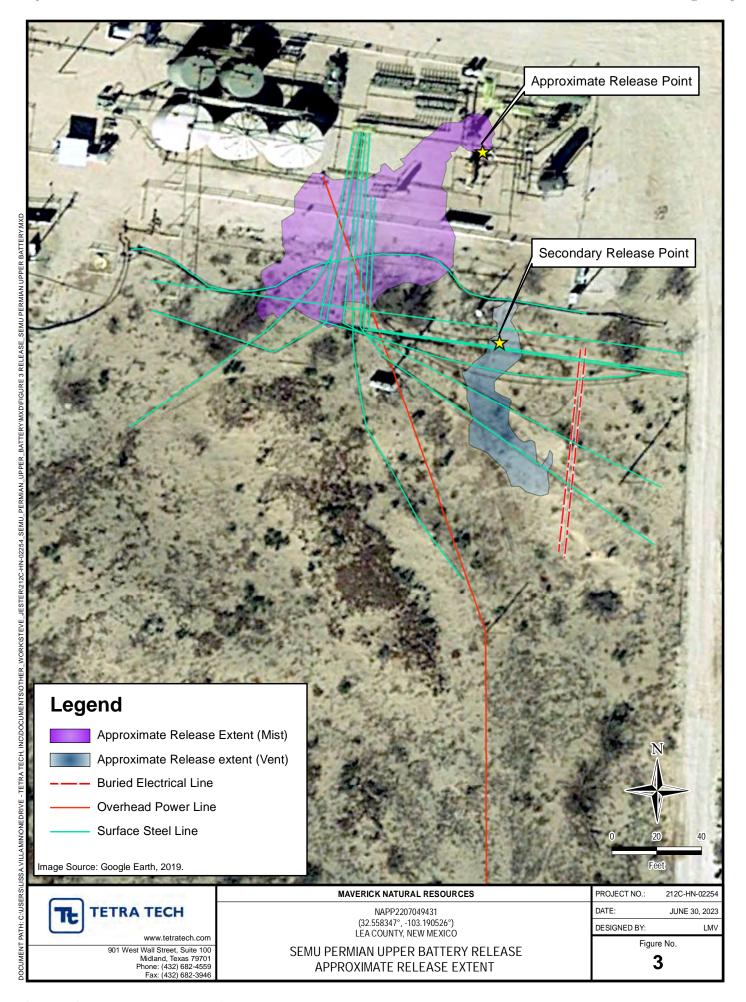
Attachment 5 - NMSLO Seed Mixture Details

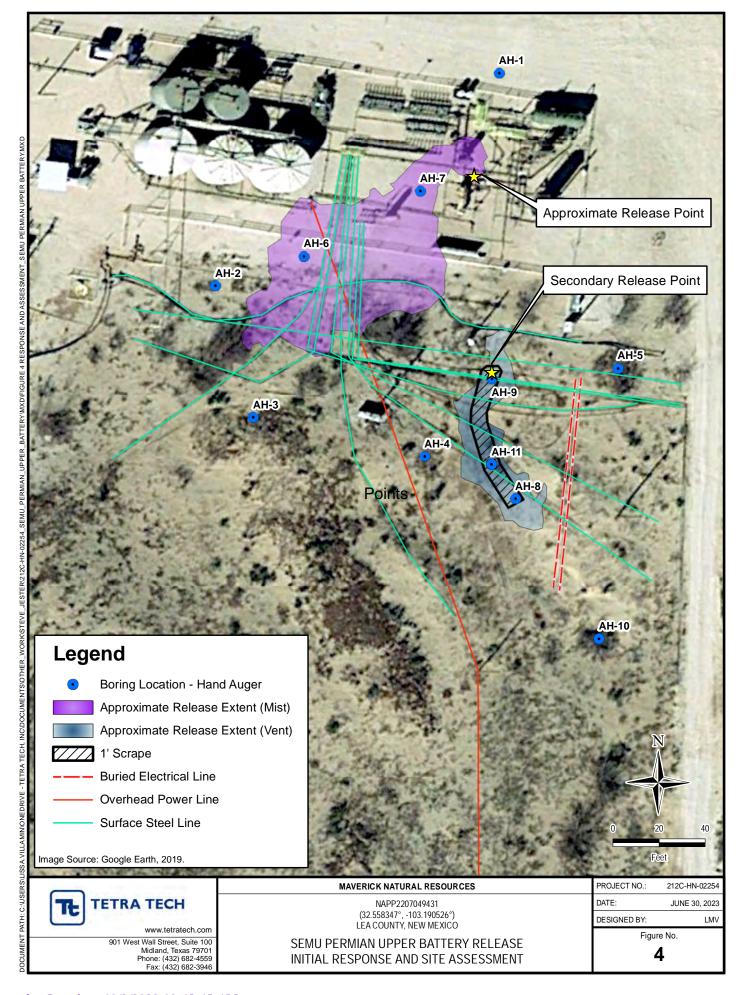
Maverick Permian, LLC June 30, 2023

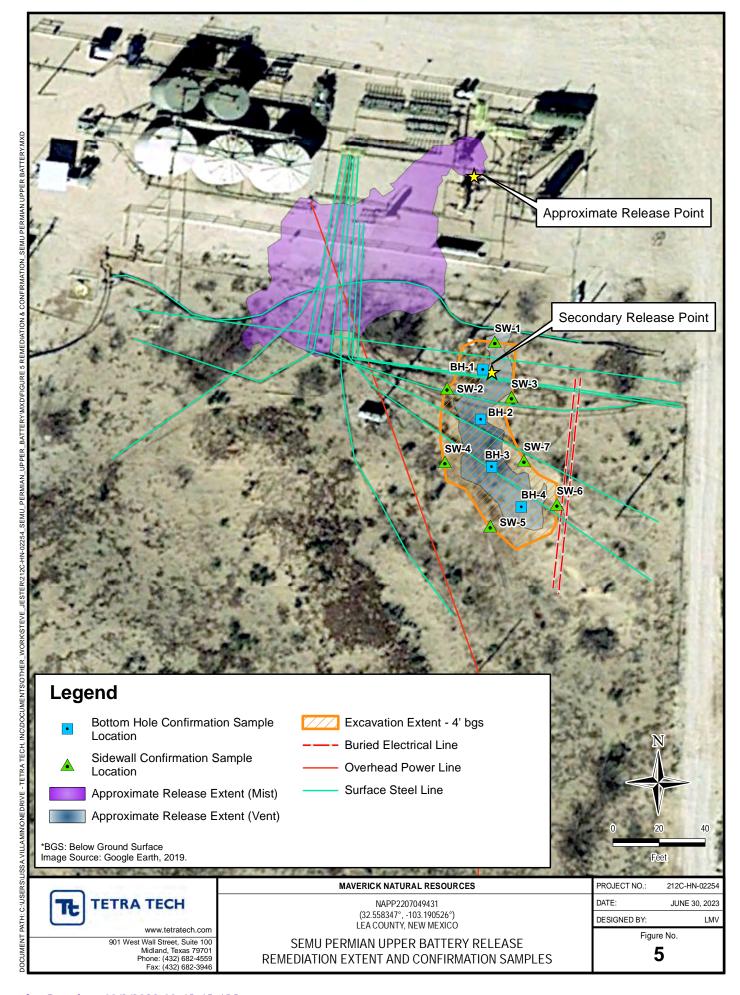
FIGURES











Maverick Permian, LLC June 30, 2023

TABLES

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TABLE 1

SUMMARY OF SOIL ANALYTICAL RESULTS SOIL ASSESSMENT SAMPLING - INCIDENT ID NAPP2207049431 MAVERICK PERMIAN, LLC SEMU PERMIA UPPER BATTERY RELEASE

LEA COUNTY, NEW MEXICO

									ВТЕХ	2									TPH ³		
Committe ID	Sample Date	Sample Depth	Chloride ¹		Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO C ₆ - C ₁₀		DRO > C ₁₀ - C ₂₈		EXT DRO > C ₂₈ - C ₃₆		Total TPH (GRO+DRO+EXT DRO)
Sample ID	Sample Date																				
		feet bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
Reclamation Require	ements (19.15.29 NM	AC)	600		10								50								100
AH-1	5/4/2022	0 - 1	208		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 30
AH-2	5/4/2022	0 - 1	48		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 30
AH-3	5/4/2022	0 - 1	32		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 30
AH-4	5/4/2022	0 - 1	16		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 30
AH-5	5/4/2022	0 - 1	< 16		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 30
AH-6	5/4/2022	0 - 1	160		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 30
AH-7	5/4/2022	0 - 1	64		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 30
AH-8	5/4/2022	1 - 2	32		< 0.050		< 0.050		< 0.050	GC-NC	< 0.150		< 0.300		< 100		4,960		1,440		6,400
Ап-о	5/4/2022	2 - 3	< 16		< 0.050		< 0.050	GC-NC	< 0.050	GC-NC	< 0.150	GC-NC	< 0.300		430		15,700		3,930		20,060
AH-9	5/4/2022	1 - 2	16		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		1,530		677		2,207
АП-9	5/4/2022	2 - 3	32		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		10.7		2,510		1,080		3,601
AH-10	5/20/2022	0 - 1	32		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 30
AH-11	5/20/2022	3 - 4	16		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		32.4		4,280		1,160		5,472
AII-II	5/20/2022	5 - 6	32		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		10.3		14.7		25

NOTES:

bgs: Below ground surface mg/kg: Milligrams per kilogram

TPH: Total Petroleum Hydrocarbons

GRO: Gasoline Range Organics 1: Method SM4500Cl-B DRO: Diesel Range Organics 2: Method 8021B ORO: Oil Range Organics 3: Method 8015M

Bold and highlighted values indicate exceedance of Reclamation Requirements (19.15.29 NMAC).

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TABLE 2

SUMMARY OF ANALYTICAL RESULTS SOIL CONFIRMATION SAMPLING - INCIDENT ID NAPP2207049431 MAVERICK PERMIAN, LLC SEMU PERMIA UPPER BATTERY RELEASE

LEA COUNTY, NEW MEXICO

					BTEX ²												TPH ³				
Comple ID	Sample Date	Sample Depth	Chloride	Chloride ¹			Toluon		Ethydhous		Tatal Volence		Total BTEX		GRO		DRO		EXT DRO)	Total TPH
Sample ID	Sample Date				Benzene	Benzene		Toluene		Ethylbenzene		Total Xylenes		Х .	C ₆ - C ₁₀		> C ₁₀ - C ₂₈		> C ₂₈ - C ₃₆		(GRO+DRO+EXT DRO)
		feet bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
Reclamation Require	ments (19.15.29 NM	AC)	600		10								50								100
SW-1	6/9/2023	0.5 - 3.5	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 30
SW-2	6/9/2023	0.5 - 3.5	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 30
SW-3	6/9/2023	0.5 - 3.5	<16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 30
SW - 4	6/21/2023	0.5 - 3.5	<16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 30
SW - 5	6/21/2023	0.5 - 3.5	32		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 30
SW - 6	6/21/2023	0.5 - 3.5	<16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 30
SW - 7	6/21/2023	0.5 - 3.5	16		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 30
SW - 8	6/21/2023	0.5 - 3.5	<16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 30
BH - 1 (4')	6/9/2023	4.0 - 4.5	<16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 30
BH - 2 (4')	6/13/2023	4.0 - 4.5	<16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 30
BH - 3 (4')	6/21/2023	4.0 - 4.5	16		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 30
BH - 4 (4')	6/21/2023	4.0 - 4.5	<16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 30

NOTES:

bgs: Below ground surface

mg/kg: Milligrams per kilogram

TPH: Total Petroleum Hydrocarbons

GRO: Gasoline Range Organics 1: Method SM4500Cl-B
DRO: Diesel Range Organics 2: Method 8021B
ORO: Oil Range Organics 3: Method 8015M

Bold and highlighted values indicate exceedance of Reclamation Requirements (19.15.29 NMAC).

Maverick Permian, LLC June 30, 2023

ATTACHMENT 1: C-141 FORM

Received by OCD: 3/11/2022 1:46:32 PM

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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

MA 24:24:01 E202/2/01 :gnignml of bestelotte

Incident ID	NAPP2207049431
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	ConocoPhillips	OGRID	217817
Contact Name	Rahul Kaushik	Contact Telephone	(432) 238-3781
Contact email	Rahul.Kaushik@ConocoPhillips.com	Incident # (assigned by OCD)	NAPP2207049431
Contact mailing address	600 West Illinois Avenue, Midlar	nd, Texas 79701	

			Location of	of R	elease Sourc	e	
Latitude	32.558	326	(NAD 83 in deci		Longitude	103.19058	
Site Name		SEMU Pern	nian Battery	nai aes	Site Type	Tank Battery	
Date Release	Discovered	February 24	1, 2022		API# (if applicable))	
Unit Letter	Section	Township	Range		County		
K	19	20S	38E		Lea		
Surface Owne	er: State	■ Federal □ Tr	ibal Private (Na)

Nature and Volume of Release

Materia	l(s) Released (Select all that apply and attach calculations or specific	justification for the volumes provided below)
Crude Oil	Volume Released (bbls) 0.7	Volume Recovered (bbls) 0
Produced Water	Volume Released (bbls) 8.14	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	■ Yes □ No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		
Mechanical failure	of 2 phase horizontal separator caused flu	id release on and off pad.
	·	·

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MA 24:24:01 E20	Skeleased to Sing: 10/2/2
Incident ID	NAPP2207049431
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the response	onsible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?		
Yes No		
163 🖪 110		
If YES, was immediate no	otice given to the OCD? By whom? To v	whom? When and by what means (phone, email, etc)?
	Initial F	Response
The responsible p	party must undertake the following actions immediat	ely unless they could create a safety hazard that would result in injury
■ The source of the rele	ease has been stopped.	
■ The impacted area ha	s been secured to protect human health an	d the environment.
Released materials ha	ave been contained via the use of berms or	dikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed a	nd managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explair	why:
has begun, please attach	a narrative of actions to date. If remedia	remediation immediately after discovery of a release. If remediation l efforts have been successfully completed or if the release occurred please attach all information needed for closure evaluation.
regulations all operators are public health or the environment failed to adequately investigated addition, OCD acceptance of	required to report and/or file certain release no ment. The acceptance of a C-141 report by the ate and remediate contamination that pose a th	e best of my knowledge and understand that pursuant to OCD rules and tifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have reat to groundwater, surface water, human health or the environment. In of responsibility for compliance with any other federal, state, or local laws
and/or regulations. Printed Name Brittar	ıy N. Esparza	Title: Environmental Technician
Printed Name	za@ConocoPhillips.com	
Signature:		Date: 3/11/2022 Telephone: (432) 221-0398
email: Brittany.Espara	za@ConocoPnillips.com	Telephone: (432) 221-0398
OCD Only		
-	n Harimon	Date: 03/14/2022
Received by.		Duc

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 89703

CONDITIONS

Operator:	OGRID:
CONOCOPHILLIPS COMPANY	217817
	Action Number:
Midland, TX 79701	89703
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created	By Condition	Condition Date
jharim	on None	3/15/2022

Received by OCD: 7/10/2023 12:07:14 PM Form C-141 State of New Mexico Page 3 Oil Conservation Division

	1 1180 21 0
Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)						
Did this release impact groundwater or surface water?	☐ Yes ☐ No						
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ 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 ☐ No						
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☐ 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 ☐ No						
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☐ No						
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No						
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☐ No						
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☐ No						
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☐ No						
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☐ No						
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☐ No						
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.							
Characterization Report Checklist: Each of the following items must be included in the report.							
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps Laboratory data including chain of custody	ls.						

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

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Incident ID	
District RP	
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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.									
Printed Name:	Title:								
Signature: Charles R. Beauvais 99	Date:								
email:	Telephone:								
OCD Only									
Received by: Shelly Wells	Date: <u>7/10/2023</u>								

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Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must b	e included in the plan.							
 □ Detailed description of proposed remediation technique □ Scaled sitemap with GPS coordinates showing delineation poin □ Estimated volume of material to be remediated □ Closure criteria is to Table 1 specifications subject to 19.15.29. □ Proposed schedule for remediation (note if remediation plan times) 	12(C)(4) NMAC							
Deferral Requests Only: Each of the following items must be con-	afirmed as part of any request for deferral of remediation.							
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.								
Extents of contamination must be fully delineated.								
Contamination does not cause an imminent risk to human health	n, the environment, or groundwater.							
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.								
Printed Name:	Title:							
Signature: Charles R. Beauvais 99	Date:							
email:	Telephone:							
OCD Only								
Received by: Shelly Wells	Date: _7/10/2023							
Approved	Approval							
Signature:	<u>Date:</u>							

Received by OCD: 7/10/2023 12:07:14 PM Form C-141 State of New Mexico Page 6 Oil Conservation Division

	Page 24 of 77
Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attac	hment Checklist: Each of the following	items must be inclu	ded in the closure report.
☐ A scaled site and sa	ampling diagram as described in 19.15.29.	11 NMAC	
	remediated site prior to backfill or photos prior to liner inspection)	s of the liner integri	ty if applicable (Note: appropriate OCD District office
☐ Laboratory analyse	es of final sampling (Note: appropriate OD	C District office mu	ast be notified 2 days prior to final sampling)
Description of rem	ediation activities		
rules and regulations all which may endanger pub- liability should their ope- water, human health or ti compliance with any oth restore, reclaim, and re-v	operators are required to report and/or file blic health or the environment. The accept rations have failed to adequately investigate the environment. In addition, OCD acceptater federal, state, or local laws and/or regular yegetate the impacted surface area to the constant of the cons	c certain release noticance of a C-141 repute and remediate contance of a C-141 reputations. The responsion of the responsion of the reclamate	<u> </u>
OCD Only			
Received by: Shelly We	ells	Date: _7/1	0/2023
remediate contamination		water, human healt	their operations have failed to adequately investigate and h, or the environment nor does not relieve the responsible
Closure Approved by: _	Nelson Velez	Date:	10/02/2023
Closure Approved by: Printed Name:	Nelson Velez	Title: _	Environmental Specialist - Adv

Maverick Permian, LLC June 30, 2023

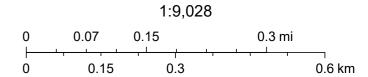
ATTACHMENT 2: SITE CHARACTERIZATION DATA

OCD Waterbodies

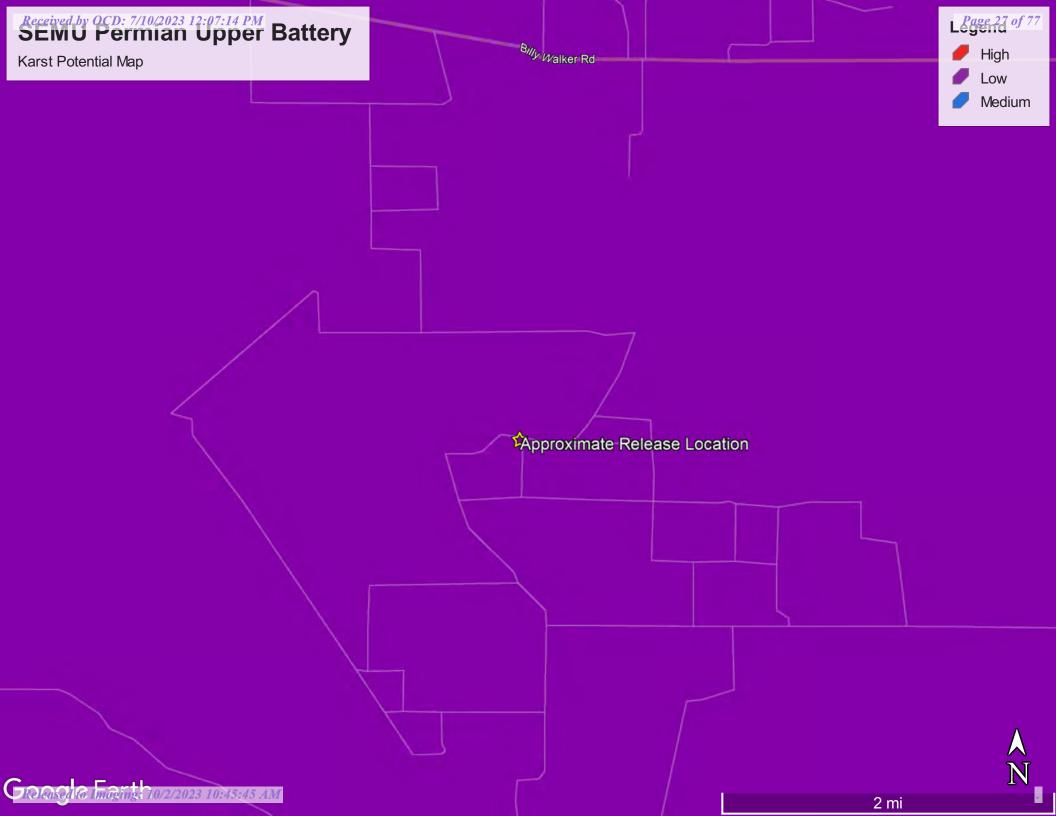


5/19/2022, 12:02:21 PM

OSW Water Bodys



Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community, Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, NM OSE





New Mexico Office of the State Engineer Water Column/Average Depth to Water

(NAD83 UTM in meters)

(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)

(In feet)

	POD Sub-		Q	Q	Q							Depth	Depth	Water
POD Number	Code basin	County	64	16	4 5	Sec	Tws	Rng	Х	Y	Distance	Well	Water	Column
L 04412 S	L	LE	4	4	2	13	20S	37E	669189	3605491*	1854	155	84	71
L 02109	L	LE	2	4	2	18	20S	38E	670803	3605719* 🌕	2154	124	50	74
L 04412	L	LE	4	2	2	13	20S	37E	669181	3605894*	2236	140	85	55
L 05351	L	LE		2	2	13	208	37E	669082	3605995* 🌍	2363	115		
<u>L 10117</u>	L	LE	1	1	2	13	208	37E	668580	3606086*	2656	130	70	60
L 01675 POD1	L	LE		3	3	07	208	38E	669476	3606405*	2665	130	80	50

Average Depth to Water: 73 feet

> Minimum Depth: 50 feet

Maximum Depth: 85 feet

Record Count: 6

UTMNAD83 Radius Search (in meters):

Easting (X): 669882.64 Radius: 2700 Northing (Y): 3603770.92

*UTM location was derived from PLSS - see Help

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

212C-MD-02101 TETRA TECH						LOG OF BORING BH-2R/2A			Page 1 of 2								
Proje	ct N	lam	e: SEM	//U BM	Т Ва	ittery	Tar	k Re	eleas	е							•
Borel	nole	Lo	cation:	32.55338	8°, -1	03.175	5938°						Surface Eleva	ation:	3544 ft		
Borel	nole	Nu	mber: [3H-2R/	2A					E	Bore Diam	ho net	er (in.): 6		Date Started: 8/6/2020 Date	Finished	d: 9/23/2020
			:LD ppm)	(mdc	ERY (%)	ENT (%)	الر)		IDEX				While Drillinզ Remarks։		VATER LEVEL OBSERVATIONS Z Dry ft Upon Completion of Drilling	Ā	Dry_ft
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	UOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	F LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	SO I DIHOVAS	GRAPHIC LOG	M	ATE	ERIAL DESCRIPTION	DEPTH (ft)	REMARKS
													-SM- SILT	ΓY S	AND; Light brown to reddish brown, very fine-grained, with abundant		BH-2R (0'-1')
_													hydrocarb	on s	taining, heavy hydrocarbon odor.		BH-2R (2'-3')
5_																-	BH-2R (4'-5')
- -																_	BH-2R (6'-7')
10_																	BH-2R (9'-10')
-																- -	
																- -	BH-2R (14'-15')
																 19	
20_		H											medium to	fine	SILT; Light tan to white, dense, e-grained, with caliche and calcrete	_	DLL 0D (00L04I)
													hydrocarb	on s	out. Trace hydrocarbon odor, no taining.		BH-2R (20'-21') BH-2R (21'-22')
-													Cemen Modera		19'-19.5' cemented 19.5'-22'		BH-2R (22'-23')
_ 25																	BH-2R (23'-24')
	$\rangle \rangle$	M											Well cer	men	ted with caliche layers 22'-39'		
	$\langle \rangle$	\square											Upper 2	25' o	of boring 2R completed with DPT rig by		
	$\langle \langle$	M											25' at BH-	2A a	carborough drilling reamed out upper and installed 8" PVC Surface casing to		
30	$\langle \langle$	$\left(\cdot \right)$		1240									preserve to rotary met	ore hod:	hole integrity. 25'-65' drilled with air s.		BH-2A (29'-30')
	$\langle \langle$	X															
	$\langle \langle$	\prod														-	
35	$\langle \langle$	M		993					<u></u>		Щ						BH-2A (34'-35')
Samp Type:	oler s:	8	Split Spoon Shelby Bulk Sample Grab Sample				r 1	pera ypes	Mud Rota Con	ary itinuou ht Aug sh	as er		Hand Auger Air Rotary Direct Push Core Barrel		es: alytical samples are shown in the rema face elevations are estimated from Go		
 							+										

212C-MD-02101 TETRA TECH			LOG OF BORING BH-2R/2A		Page 2 of 2				
Project Name:	SEMU BMT	Battery	Tank R	leleas	e				l
Borehole Locati	on: 32.553388	3°, -103.1759	938°				Surface Elevation: 3544 ft		
Borehole Numb	er: BH-2R/2	2A			E	Boreho	ole eter (in.): 6 Date Started: 8/6/2020 Date F	inishe	d: 9/23/2020
	(mdt	ENT (%)	٩	DEX			WATER LEVEL OBSERVATIONS While Drilling	Ā	Dry_ft
1 m l 🗠 l 若 📙	SCREENING (ppm) VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%) MOISTURE CONTENT (%)	DRY DENSITY (pcf)		MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DЕРТН (ft)	REMARKS
40	462 321						-SP- SILTY SAND; Tan, loose to medium-dense, with high hydrocarbon odor, with no hydrocarbon staining well-cemented and lithified in layers.	39	BH-2A (39'-40') BH-2A (44'-45')
50	230							- - - - -	BH-2A (49'-50')
55	153						-SM- SILTY SAND; Dark tan, loose to medium-dense, with trace hydrocarbon odor, with no hydrocarbon staining.	54 	BH-2A (54'-55')
60	121						-SM- SILTY SAND; Dark tan, loose to medium-dense, with no hydrocarbon odor, with no hydrocarbon staining.	59 	BH-2A (59'-60')
65	11.2							 65	BH-2A (64'-65')
Bottom of borehole at 65.0 feet.									
	Shelby Vo	cetate Liner ane Shear alifornia est Pit	Type	ration es: Muc Rota Con Fligh Was Rota	ary tinuou: nt Auge sh	s er	Hand Auger Air Rotary Direct Push Core Barrel Notes: Analytical samples are shown in the remark Surface elevations are estimated from God	ks col	umn above. arth data.
Logger: Joe Tyle	r		Drillin	g Egui	pmen	t: Direc	ct Push/Air Rotary Driller: HCI Drilling & Scarborough Drilling		

	Sample Name: L-15414-POD1	Date: 11/10/2022			
ENSOLUM	Site Name: SEMU Burger B 108				
ENSOLOM	Incident Number: nAPP2228376108				
	Job Number: 03D2057013				
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: CS / PV	Method: Air Rotary			
Coordinates: 32.556516, -103.178207	Hole Diameter: 6"	Total Depth: 103'			

Comments: Soil boring was advanced to a total depth of 103' bgs. No water was observed within the soil boring after at least 72 hours. On 11/14/2022 the soil boring was plugged and abandoned using hydrated bentonite chips.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
] -	0	SP-SM	(0-30'), SAND, dry, tan to brown, medium to fine grain, poorly graded with silt, no stain, no odor.
Dry	-	-	N	-		10		
Dry	-	-	N	-	- - -	20		@20' color change to tan.
Dry	-	-	N	-		30 	SP-SC	(30-50'), SAND, dry, tan, medium to fine grain, poorly graded with clay, non-plastic, noncohesive, some subround small
Dry	-	-	N	-		40		gravel, no stain, no odor.
Dry	-	-	N	-	- - -	50 -	SP-SM	(50-103'), SAND, dry, reddish brown, medium to fine grain, poorly graded with silt, no stain, no odor.
Dry	-	-	N	-	- - -	60 		@60' color change to light green to brown, some reddish brown quartzite clasts.
Dry	-	-	N	-	· -	- _ 70 -		@70' color change to reddish brown, few caliche nodules,
Dry	-	-	N	-	 -	80		@80' no caliche nodules.
Dry	-	-	N	-	 	90		
Dry	-	-	N	-	- - -	100		NOTE: refused @ 102' using air retany drill rig due to
Dry		-	N	-			h @ 103	NOTE: refusal @ 103' using air rotary drill rig due to abundant sand.

Total Depth @ 103 feet bgs



WELL PLUGGING PLAN OF OPERATIONS



NOTE: A Well Plugging Plan of Operations shall be filed with and accepted by the Office of the State Engineer prior to plugging. This form may be used to plug a single well, or if you are plugging multiple monitoring wells on the same site using the same plugging methodology.

Alert! Your well may be eligible to participate in the Aquifer Mapping Program (AMP)-NM Bureau of Geology geoinfo.nmt.edu/resources/water/cgmn/ if within an area of interest and meets the minimum construction requirements, such as there is still water in your well, and the well construction reflected in a well record and log is not compromised, contact AMP at 575-835-5038 or -6951, or by email nmbg-waterlevels@nmt.edu, prior to completing this prior form. Showing proof to the OSE that your well was accepted in this program, may delay the plugging of your well until a later date.

Mailing address: 1410 NW Cou	unty Road	s, LLC County:		
City: Hobbs	State:	New Mexico	Zip code88240	
Phone number: 928-241-1862		mail: bryce.wagoner@mavreso		
III. WELL DRILLER INFORM		auto en con		
	e plugging services: West Texas			
New Mexico Well Driller License	e No.: WD# 1184	Expiration Date:	10/31/2023	
GPS Well Location:	Latitude: 32 deg, Longitude: 103 deg.	10 min, 41.55	sec NAD 83	
	Latitude: 32 deg, Longitude: 103 deg, well(s):	10 min, 41.55	_sec _sec, NAD 83	
		10 min, 41.55	_sec _sec, NAD 83	
2) Reason(s) for plugging v Soil boring Was well used for any ty what hydrogeologic par		o If yes, please use section well was used to monitor continuous	n VII of this form to deta	
Soil boring Was well used for any ty what hydrogeologic par water, authorization from	vpe of monitoring program? Normatters were monitored. If the	o If yes, please use section well was used to monitor concepartment may be required prior	n VII of this form to deta ontaminated or poor qualit or to plugging.	
2) Reason(s) for plugging v Soil boring 3) Was well used for any ty what hydrogeologic par water, authorization from Does the well tap bracki	ype of monitoring program? Nameters were monitored. If the n the New Mexico Environment D	o If yes, please use section well was used to monitor concepartment may be required priority water? N/A If ye	n VII of this form to deta ontaminated or poor qualit or to plugging.	
2) Reason(s) for plugging v Soil boring 3) Was well used for any ty what hydrogeologic par water, authorization from 4) Does the well tap bracki including analytical resu	well(s): //pe of monitoring program?N rameters were monitored. If the n the New Mexico Environment D ish, saline, or otherwise poor quali	If yes, please use section well was used to monitor component may be required priority water? N/A If ye	n VII of this form to deta entaminated or poor qualit or to plugging. es, provide additional detai	

WD-08 Well Plugging Plan Version: July 31, 2019 Page 1 of 5

7)	Inside diameter of innermost casing:inches.						
8)	Casing material: Temporary PVC SCH 40						
9)	The well was constructed with: an open-hole production interval, state the open interval: a well screen or perforated pipe, state the screened interval(s): N/A						
10)	What annular interval surrounding the artesian casing of this well is cement-grouted? N/A						
11)	Was the well built with surface casing?NoIf yes, is the annulus surrounding the surface casing grouted or otherwise sealed?If yes, please describe:						
12) V D	Has all pumping equipment and associated piping been removed from the well? N/A If not, describe remaining equipment and intentions to remove prior to plugging in Section VII of this form. DESCRIPTION OF PLANNED WELL PLUGGING: form must be completed for each method.						
diagra as geo	If this plan proposes to plug an artesian well in a way other than with cement grout, placed bottom to top with a tremie pipe, a detailed am of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such physical logs, that are necessary to adequately describe the proposal. Attach a copy of any signed OSE variance to this plugging plan.						
1)	Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology proposed for the well:						
	The temporary 2" well material will be removed. If no water is encountered, drill cuttings will be used to ten feet below ground surface (bgs) and plugged using hydrated bentonite. If groundwater is encountered the boring will be plugged, tremie from bottom to a slurry of Portland Type I/II cement in lifts.						
2)	Will well head be cut-off below land surface after plugging? N/A						
Note:	PLUGGING AND SEALING MATERIALS: The plugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant. Attach a copy of the batch mix rethe cement company and/or product description for specialty cement mixes or any sealant that deviates from the list of OSE approved sealants.						
	For plugging intervals that employ cement grout, complete and attach Table A.						
2)	For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B.						
3)	Theoretical volume of grout required to plug the well to land surface: 287						
4)	Type of Cement proposed: Type I/II						
5)	Proposed cement grout mix: <6.0 gallons of water per 94 pound sack of Portland cement.						
6)	Will the grout be:batch-mixed and delivered to the siteXmixed on site						
	QSE DIT NOU 8 2022 PNG: 32						

WD-08 Well Plugging Plan Version July 31, 2019 Page 2 of 5

	Grout additives requested, and percent	t by dry weight relative to cement:	
	N/A		
	Additional notes and calculations:		
	N/A		
_	DDITIONAL INFORMATION: List	additional information below, or on separate sheet	(s):
1			
_			
I. S	SIGNATURE:		
	i Jennings		
		, say that I have carefully read the foregoing	
		art hereof; that I am familiar with the rules and regu	liations of the State
		d will comply with them, and that each and all of the	II. W. atatamanta in the Wall
ggin	ig Plan of Operations and attachments al	as two a to the bast of any long and adapt and ballof	ne statements in the Well
		re true to the best of my knowledge and belief.	ne statements in the Well
	_	re true to the best of my knowledge and belief.	10/27/2022
	_		
	_	Signature of Applicant	10/27/2022
Δ	CTION OF THE STATE ENGINEER	Signature of Applicant	10/27/2022
	'ell Plugging Plan of Operations is:	Signature of Applicant	10/27/2022
	Tell Plugging Plan of Operations is: Approved subject to the attack.	Signature of Applicant Ched conditions. Sprovided on the attached letter.	10/27/2022 Date E DTT NOU 8 2022 PM3:32
	Tell Plugging Plan of Operations is: Approved subject to the attain Not approved for the reasons	Signature of Applicant Ched conditions. Sprovided on the attached letter.	10/27/2022 Date E DTT NOU 8 2022 PMS: 32
	Tell Plugging Plan of Operations is: Approved subject to the attack.	Signature of Applicant Ched conditions. Sprovided on the attached letter.	10/27/2022 Date E DTT NOU 8 2022 PMS: 32
	Tell Plugging Plan of Operations is: Approved subject to the attace	Signature of Applicant Signature of Applicant Signature of Applicant Ched conditions. Sprovided on the attached letter. Aday of November Mike A - Mannar John R. Detaitonie N. P.E., New M.	10/27/2022 Date E DIT NOU 8 2022 PM3:32
	Tell Plugging Plan of Operations is: Approved subject to the attace	Signature of Applicant Signature of Applicant Signature of Applicant Ched conditions. Sprovided on the attached letter. Aday of November Mike A - Mannar John R. Detaitonie N. P.E., New M.	10/27/2022 Date E DIT NOU 8 2022 PM3:32
	Tell Plugging Plan of Operations is: Approved subject to the attace	Signature of Applicant Ched conditions. Sprovided on the attached letter. A day of November Mike A - Mammar John R. Distance h. P.E., New M. By: K. Parekh KASN-1AP Pf	10/27/2022 Date EDIT NOU 8 2022 PM3:32
	Tell Plugging Plan of Operations is: Approved subject to the attace	Signature of Applicant Signature of Applicant Signature of Applicant Ched conditions. Sprovided on the attached letter. Aday of November Mike A - Mannar John R. Detaitonie N. P.E., New M.	10/27/2022 Date EDIT NOU 8 2022 PM3:32
	Tell Plugging Plan of Operations is: Approved subject to the attace	Signature of Applicant Ched conditions. Sprovided on the attached letter. A day of November Mike A - Mammar John R. Distance h. P.E., New M. By: K. Parekh KASN-1AP Pf	10/27/2022 Date EDIT NOU 8 2022 PM3:32

TABLE A - For plugging intervals that employ cement grout. Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of grout placement (ft bgl)	N/A	N/A	0
Bottom of proposed interval of grout placement (ft bgl)	N/A	N/A	100
Theoretical volume of grout required per interval (gallons)	N/A	N/A	287
Proposed cement grout mix gallons of water per 94-lb. sack of Portland cement	N/A	N/A	<6.0
Mixed on-site or batch- mixed and delivered?	N/A	N/A	onsite
Grout additive 1 requested	N/A	N/A	N/A
Additive 1 percent by dry weight relative to cement	N/A	N/A	N/A
Grout additive 2 requested	N/A	N/A	N/A
Additive 2 percent by dry weight relative to cement	N/A	N/A	N/A OSE 017 NOU 8 2022 №313

WD-08 Well Plugging Plan Version: July 31, 2019 Page 4 of 5

TABLE B - For plugging intervals that will employ approved non-cement based sealant(s). Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of sealant placement (ft bgl)	N/A	N/A	0
Bottom of proposed sealant of grout placement (ft bgl)	N/A	N/A	10
Theoretical volume of sealant required per interval (gallons)	N/A	N/A	26
Proposed abandonment sealant (manufacturer and trade name)	N/A	N/A	Baroid Hold Plug

OSE DTT NOU 8 2022 PMG:32



United States Department of the Interior

BUREAU OF LAND MANAGEMENT Carlsbad Field Office 620 E. Greene St. Carlsbad, NM 88220-6292

In Reply Refer To: 3162.4 (NM-080) NMLC031670B

November 2, 2022

NM Office of the State Engineer 1900 W. Second St. Roswell, NM 88201

Re: SEMU Burger B 108

30-025-26269

Section 20, T20S-R38E 32.556715,-103.178192 Lea County, New Mexico

To Whom It May Concern:

The above well location and the immediate area mentioned above requires advanced soil boring to take place at approximately 110 feet below ground surface via an air rotary rig with hallow stem auger equipment. The boring will be secured and left open for 72 hours at which time Maverick Permian LLC will assess for the presence or absence of groundwater. An oil-water interface probe will be utilized to confirm depth to groundwater in the soil boring. The Bureau of Land Management (landowner) authorizes the access of the area to accomplish depth to groundwater determination of this site.

If you have any questions contact Crisha Morgan, at 575-234-5987.

Sincerely,

Crisha Morgan Crisha A. Morgan

Certified Environmental Protection Specialist

OSE DIT NOU 8 2022 PM3:32



Mike A. Hamman, P.E.

State Engineer

DISTRICT II

1900 West Second St. Roswell, New Mexico 88201 Phone: (575) 622-6521 Fax: (575) 623-8559

November 9, 2022

Maverick Natural Resources LLC 1410 NW County Road Hobbs, NM 88240

RE: Well Plugging Plan of Operations for well no. L-15414-POD1

Greetings:

Enclosed is your copy of the Well Plugging Plan of Operations for the above referenced well subject to the attached Conditions of Approval. The proposed method of operation is found to be acceptable and in accordance with the Rules and Regulations Governing Well Driller Licensing; Construction, Repair and Plugging of Wells 19.27.4 NMAC adopted June 30, 2017 by the State Engineer, subject to the attached Conditions of Approval.

Well Plugging Plan of Operations form (WD-08) has been updated. Current form can be found on the OSE website at the following link https://www.ose.state.nm.us/Statewide/wdForms.php.

Within 30 days after the well is plugged, the well driller is required to file a complete plugging record with the OSE and the permit holder.

Sincerely,

Kashyap Parekh

Water Resources Manager I



STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER ROSWELL

1900 West Second St. Roswell, New Mexico 88201 Phone: (575) 622-6521 Fax: (575) 623-8559

Applicant has identified wells, listed below, to be plugged. West Texas Drilling Services (WD-1184) will perform the plugging.

Permittee: Maverick Natural Resources, LLC NMOSE Permit Number: L-15414-POD1

NMOSE File	Casing diameter (inches)	Well depth (feet bgl)	Approximate static water level (feet bgl)	Latitude	Longitude
L-15414- POD1	2.0	110.0	100	32° 33' 23.46"	103° 10' 41.55''

Specific Plugging Conditions of Approval for well located in Lea County.

- Water well drilling and well drilling activities, including well plugging, are regulated under 19.27.4 NMAC, which requires any person engaged in the business of well drilling within New Mexico to obtain a Well Driller License issued by the New Mexico Office of the State Engineer (NMOSE). Therefore, the firm of a New Mexico licensed Well Driller shall perform the well plugging.
- The total Theoretical volume of sealant required for abandonment of 2.0 inch diameter (I.D.)
 casing is approximately 287 gallons. Total minimum volume of necessary sealant shall be
 calculated upon sounding the actual pluggable depth of well, which is estimated at 110 feet.
- Ground Water encountered: Type I/II Portland cement mixed with 5.2 to 6.0 gallons of fresh water per 94-lb sack of cement is approved for the plugging the well.
- <u>Dry Hole:</u> (a) Drill cuttings up to ten feet of land surface. (b) 10 feet to 0 feet Hydrated bentonite. The bentonite shall be hydrated separately with its required increments of water prior to being mixed into the cement slurry.
 - 5. Sealant shall be placed by pumping through a tremie pipe extended to near well bottom and kept below top of the slurry column as the well is plugged from bottom-upwards in a manner that displaces the standing water column upwards from below. Tremie pipe may be pulled as necessary to retain minimal submergence in the advancing column of sealant.

- 6. Should cement "shrinks-back" occur in the well, use of a tremie for topping off is required for cement placement deeper than 20 feet below land surface or if water is present in the casing. The approved sealant for topping off is identified in condition 3. of these Specific Conditions of Approval.
- 7. Any open annulus encountered surrounding the casing shall also be sealed by the placement of the approved sealant. When plugging shallow wells with no construction or environmental concerns, and if the well record on a well to be plugged shows a proper 20-foot annular seal, a plugging plan can propose the use of clean fill material to a nominal 30 feet bgs, then placing an OSE approved sealant to surface. Lacking that information, we would require an excavation of at least 2-feet which shall then be filled in its entirety with sealant to surface.
- 8. Should the NMED, or another regulatory agency sharing jurisdiction of the project authorize, or by regulation require a more stringent well plugging procedure than herein acknowledged, the more-stringent procedure should be followed. This, in part, includes provisions regarding pre-authorization to proceed, contaminant remediation, inspection, pulling/perforating of casing, or prohibition of free discharge of any fluid from the borehole during or related to the plugging process.
- 9. NMOSE witnessing of the plugging of the shallow well will not be required.
- Any deviation from this plan must obtain an approved variance from this office prior to implementation.
- 11. A Well Plugging Record itemizing actual abandonment process and materials used shall be filed with the State Engineer within 30 days after completion of well plugging. For the plugging record, please resurvey coordinate location for well and note coordinate system for GPS unit. Please attach a copy of these plugging conditions.

The NMOSE Well Plugging Plan of Operations is hereby approved with the aforesaid conditions applied.

Witness my hand and seal this 9th day of November 2022

Mike A. Hamman, P.E. State Engineer

By: K. Parele

Kashyap Parekh Water Resources Manager I



Site Remediation Closure Report SEMU Permian Upper Battery nAPP2207049431 Maverick Permian, LLC June 30, 2023

ATTACHMENT 3: LABORATORY ANALYTICAL DATA

Released to Imaging: 10/2/2023 10:45:45 AM



June 14, 2023

CHUCK TERHUNE
TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND, TX 79701

RE: SEMU UPPER BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/13/23 15:42.

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

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:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 06/13/2023 Sampling Date: 06/09/2023 Reported: 06/14/2023 Sampling Type: Soil

Project Name: SEMU UPPER BATTERY Sampling Condition: Cool & Intact Project Number: 212C - HN - 02254 Sample Received By: Shalyn Rodriguez

Project Location: MAVERICK - LEA CO NM

Sample ID: BH - 1 (4') (H233036-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2023	ND	2.13	106	2.00	3.30	
Toluene*	<0.050	0.050	06/14/2023	ND	2.20	110	2.00	3.06	
Ethylbenzene*	<0.050	0.050	06/14/2023	ND	2.09	105	2.00	3.25	
Total Xylenes*	<0.150	0.150	06/14/2023	ND	6.52	109	6.00	2.52	
Total BTEX	<0.300	0.300	06/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/14/2023	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	06/14/2023	ND	189	94.7	200	5.35	
DRO >C10-C28*	<10.0	10.0	06/14/2023	ND	208	104	200	5.45	
EXT DRO >C28-C36	<10.0	10.0	06/14/2023	ND					
Surrogate: 1-Chlorooctane	87.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 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:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 06/13/2023 Sampling Date: 06/13/2023

Reported: 06/14/2023 Sampling Type: Soil

Project Name: SEMU UPPER BATTERY Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02254 Sample Received By: Shalyn Rodriguez

Analyzed By: MS

Project Location: MAVERICK - LEA CO NM

Sample ID: BH - 2 (4') (H233036-02)

BTEX 8021B

DIEX 6021B	ilig	, kg	Allalyze	u by. M3					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2023	ND	2.13	106	2.00	3.30	
Toluene*	<0.050	0.050	06/14/2023	ND	2.20	110	2.00	3.06	
Ethylbenzene*	<0.050	0.050	06/14/2023	ND	2.09	105	2.00	3.25	
Total Xylenes*	<0.150	0.150	06/14/2023	ND	6.52	109	6.00	2.52	
Total BTEX	<0.300	0.300	06/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	06/14/2023	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	06/14/2023	ND	189	94.7	200	5.35	
DRO >C10-C28*	<10.0	10.0	06/14/2023	ND	208	104	200	5.45	
EXT DRO >C28-C36	<10.0	10.0	06/14/2023	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	129	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 06/13/2023 Sampling Date: 06/09/2023

Reported: 06/14/2023 Sampling Type: Soil

Project Name: SEMU UPPER BATTERY Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02254 Sample Received By: Shalyn Rodriguez

Analyzed By: MC

Project Location: MAVERICK - LEA CO NM

ma/ka

Sample ID: SW - 1 (H233036-03)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2023	ND	2.13	106	2.00	3.30	
Toluene*	<0.050	0.050	06/14/2023	ND	2.20	110	2.00	3.06	
Ethylbenzene*	<0.050	0.050	06/14/2023	ND	2.09	105	2.00	3.25	
Total Xylenes*	<0.150	0.150	06/14/2023	ND	6.52	109	6.00	2.52	
Total BTEX	<0.300	0.300	06/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 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	06/14/2023	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	06/14/2023	ND	189	94.7	200	5.35	
DRO >C10-C28*	<10.0	10.0	06/14/2023	ND	208	104	200	5.45	
EXT DRO >C28-C36	<10.0	10.0	06/14/2023	ND					
Surrogate: 1-Chlorooctane	110	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	136	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 06/13/2023 Sampling Date: 06/09/2023

Reported: 06/14/2023 Sampling Type: Soil

Project Name: SEMU UPPER BATTERY Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02254 Sample Received By: Shalyn Rodriguez

Analyzed By: MC

Project Location: MAVERICK - LEA CO NM

ma/ka

Sample ID: SW - 2 (H233036-04)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2023	ND	2.13	106	2.00	3.30	
Toluene*	<0.050	0.050	06/14/2023	ND	2.20	110	2.00	3.06	
Ethylbenzene*	<0.050	0.050	06/14/2023	ND	2.09	105	2.00	3.25	
Total Xylenes*	<0.150	0.150	06/14/2023	ND	6.52	109	6.00	2.52	
Total BTEX	<0.300	0.300	06/14/2023	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	<16.0	16.0	06/14/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/14/2023	ND	189	94.7	200	5.35	
DRO >C10-C28*	<10.0	10.0	06/14/2023	ND	208	104	200	5.45	
EXT DRO >C28-C36	<10.0	10.0	06/14/2023	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	131	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Kreine



Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701

(432) 682-3946

ma/ka

Received: 06/13/2023 Sampling Date: 06/09/2023 Reported: Sampling Type: Soil 06/14/2023

Fax To:

Project Name: SEMU UPPER BATTERY Sampling Condition: Cool & Intact Sample Received By: Project Number: 212C - HN - 02254 Shalyn Rodriguez

Analyzed By: MC

Project Location: MAVERICK - LEA CO NM

Sample ID: SW - 3 (H233036-05)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2023	ND	2.13	106	2.00	3.30	
Toluene*	<0.050	0.050	06/14/2023	ND	2.20	110	2.00	3.06	
Ethylbenzene*	<0.050	0.050	06/14/2023	ND	2.09	105	2.00	3.25	
Total Xylenes*	<0.150	0.150	06/14/2023	ND	6.52	109	6.00	2.52	
Total BTEX	<0.300	0.300	06/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 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	06/14/2023	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	06/14/2023	ND	189	94.7	200	5.35	
DRO >C10-C28*	<10.0	10.0	06/14/2023	ND	208	104	200	5.45	
EXT DRO >C28-C36	<10.0	10.0	06/14/2023	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	127	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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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

Released to Imaging: 10/2/2023 10:45:45 AM



June 22, 2023

CHUCK TERHUNE
TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND, TX 79701

RE: SEMU UPPER BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/21/23 15:40.

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

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:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 06/21/2023 Sampling Date: 06/21/2023 Reported: 06/22/2023 Sampling Type: Soil

Project Name: SEMU UPPER BATTERY Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02254 Sample Received By: Tamara Oldaker

Project Location: MAVERICK - LEA CO NM

Sample ID: BH - 3 (4') (H233225-01)

BTEX 8021B	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2023	ND	2.15	108	2.00	2.30	
Toluene*	<0.050	0.050	06/21/2023	ND	2.11	106	2.00	2.16	
Ethylbenzene*	<0.050	0.050	06/21/2023	ND	2.10	105	2.00	2.44	
Total Xylenes*	<0.150	0.150	06/21/2023	ND	6.40	107	6.00	3.21	
Total BTEX	<0.300	0.300	06/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/22/2023	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	06/22/2023	ND	180	89.9	200	1.60	
DRO >C10-C28*	<10.0	10.0	06/22/2023	ND	165	82.6	200	0.186	
EXT DRO >C28-C36	<10.0	10.0	06/22/2023	ND					
Surrogate: 1-Chlorooctane	129	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	123	% 49.1-14	8						

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Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 06/21/2023 Sampling Date: 06/21/2023

Reported: 06/22/2023 Sampling Type: Soil

Project Name: SEMU UPPER BATTERY Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02254 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: MAVERICK - LEA CO NM

mg/kg

Sample ID: BH - 4 (4') (H233225-02)

BTEX 8021B

DILX GOZID	ilig/	, kg	Andryzo	u by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2023	ND	2.15	108	2.00	2.30	
Toluene*	<0.050	0.050	06/21/2023	ND	2.11	106	2.00	2.16	
Ethylbenzene*	<0.050	0.050	06/21/2023	ND	2.10	105	2.00	2.44	
Total Xylenes*	<0.150	0.150	06/21/2023	ND	6.40	107	6.00	3.21	
Total BTEX	<0.300	0.300	06/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 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	06/22/2023	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	06/22/2023	ND	180	89.9	200	1.60	
DRO >C10-C28*	<10.0	10.0	06/22/2023	ND	165	82.6	200	0.186	
EXT DRO >C28-C36	<10.0	10.0	06/22/2023	ND					
Surrogate: 1-Chlorooctane	119	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115	% 49.1-14	8						

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Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 06/21/2023 Sampling Date: 06/21/2023

Reported: Sampling Type: Soil 06/22/2023

Project Name: SEMU UPPER BATTERY Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 212C - HN - 02254

Project Location: MAVERICK - LEA CO NM

Sample ID: SW - 4 (H233225-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2023	ND	2.15	108	2.00	2.30	
Toluene*	<0.050	0.050	06/21/2023	ND	2.11	106	2.00	2.16	
Ethylbenzene*	<0.050	0.050	06/21/2023	ND	2.10	105	2.00	2.44	
Total Xylenes*	<0.150	0.150	06/21/2023	ND	6.40	107	6.00	3.21	
Total BTEX	<0.300	0.300	06/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/22/2023	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	06/22/2023	ND	180	89.9	200	1.60	
DRO >C10-C28*	<10.0	10.0	06/22/2023	ND	165	82.6	200	0.186	
EXT DRO >C28-C36	<10.0	10.0	06/22/2023	ND					
Surrogate: 1-Chlorooctane	120 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117 9	6 49.1-14	8						

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Celeg D. Freene



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

Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 06/21/2023 Sampling Date: 06/21/2023

Reported: Sampling Type: Soil 06/22/2023 Project Name: SEMU UPPER BATTERY Sampling Condition: Cool & Intact

Sample Received By: Tamara Oldaker Project Number: 212C - HN - 02254 Project Location: MAVERICK - LEA CO NM

Sample ID: SW - 5 (H233225-04)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2023	ND	2.15	108	2.00	2.30	
Toluene*	<0.050	0.050	06/21/2023	ND	2.11	106	2.00	2.16	
Ethylbenzene*	<0.050	0.050	06/21/2023	ND	2.10	105	2.00	2.44	
Total Xylenes*	<0.150	0.150	06/21/2023	ND	6.40	107	6.00	3.21	
Total BTEX	<0.300	0.300	06/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 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	32.0	16.0	06/22/2023	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	06/22/2023	ND	180	89.9	200	1.60	
DRO >C10-C28*	<10.0	10.0	06/22/2023	ND	165	82.6	200	0.186	
EXT DRO >C28-C36	<10.0	10.0	06/22/2023	ND					
Surrogate: 1-Chlorooctane	125 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120 9	% 49.1-14	8						

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Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 06/21/2023 Sampling Date: 06/21/2023

Reported: 06/22/2023 Sampling Type: Soil

Project Name: SEMU UPPER BATTERY Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02254 Sample Received By: Tamara Oldaker

Project Location: MAVERICK - LEA CO NM

Sample ID: SW - 6 (H233225-05)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2023	ND	2.15	108	2.00	2.30	
Toluene*	<0.050	0.050	06/21/2023	ND	2.11	106	2.00	2.16	
Ethylbenzene*	< 0.050	0.050	06/21/2023	ND	2.10	105	2.00	2.44	
Total Xylenes*	<0.150	0.150	06/21/2023	ND	6.40	107	6.00	3.21	
Total BTEX	<0.300	0.300	06/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/22/2023	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	06/22/2023	ND	180	89.9	200	1.60	
DRO >C10-C28*	<10.0	10.0	06/22/2023	ND	165	82.6	200	0.186	
EXT DRO >C28-C36	<10.0	10.0	06/22/2023	ND					
Surrogate: 1-Chlorooctane	118	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114	% 49.1-14	8						

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Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

(432) 682-3946

Received: 06/21/2023 Sampling Date: 06/21/2023

Reported: 06/22/2023 Sampling Type: Soil

Fax To:

Project Name: SEMU UPPER BATTERY Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02254 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: MAVERICK - LEA CO NM

mg/kg

Sample ID: SW - 7 (H233225-06)

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	06/21/2023	ND	2.15	108	2.00	2.30	
Toluene*	<0.050	0.050	06/21/2023	ND	2.11	106	2.00	2.16	
Ethylbenzene*	<0.050	0.050	06/21/2023	ND	2.10	105	2.00	2.44	
Total Xylenes*	<0.150	0.150	06/21/2023	ND	6.40	107	6.00	3.21	
Total BTEX	<0.300	0.300	06/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	06/22/2023	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	06/22/2023	ND	180	89.9	200	1.60	
DRO >C10-C28*	<10.0	10.0	06/22/2023	ND	165	82.6	200	0.186	
EXT DRO >C28-C36	<10.0	10.0	06/22/2023	ND					
Surrogate: 1-Chlorooctane	112 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

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Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100MIDLAND TX, 79701

(432) 682-3946

Received: 06/21/2023 Sampling Date: 06/21/2023

Reported: Sampling Type: Soil 06/22/2023

Fax To:

Project Name: SEMU UPPER BATTERY Sampling Condition: Cool & Intact Project Number: 212C - HN - 02254 Sample Received By: Tamara Oldaker

Project Location: MAVERICK - LEA CO NM

Sample ID: SW - 8 (H233225-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2023	ND	2.15	108	2.00	2.30	
Toluene*	<0.050	0.050	06/21/2023	ND	2.11	106	2.00	2.16	
Ethylbenzene*	<0.050 0.050		06/21/2023	ND	2.10	105	2.00	2.44	
Total Xylenes*	<0.150 0.150 06/21/20		06/21/2023	ND	6.40	107	6.00	3.21	
Total BTEX	<0.300	0.300	06/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 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	06/22/2023	ND	400	100	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*) C6-C10* <10.0		06/22/2023	ND	180 89.9		200	1.60	
DRO >C10-C28*	<10.0 10.0 06/22/202		06/22/2023	ND	ND 165		200	0.186	
EXT DRO >C28-C36	DRO >C28-C36 <10.0 10.		06/22/2023	ND					
Surrogate: 1-Chlorooctane	116 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	8						

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

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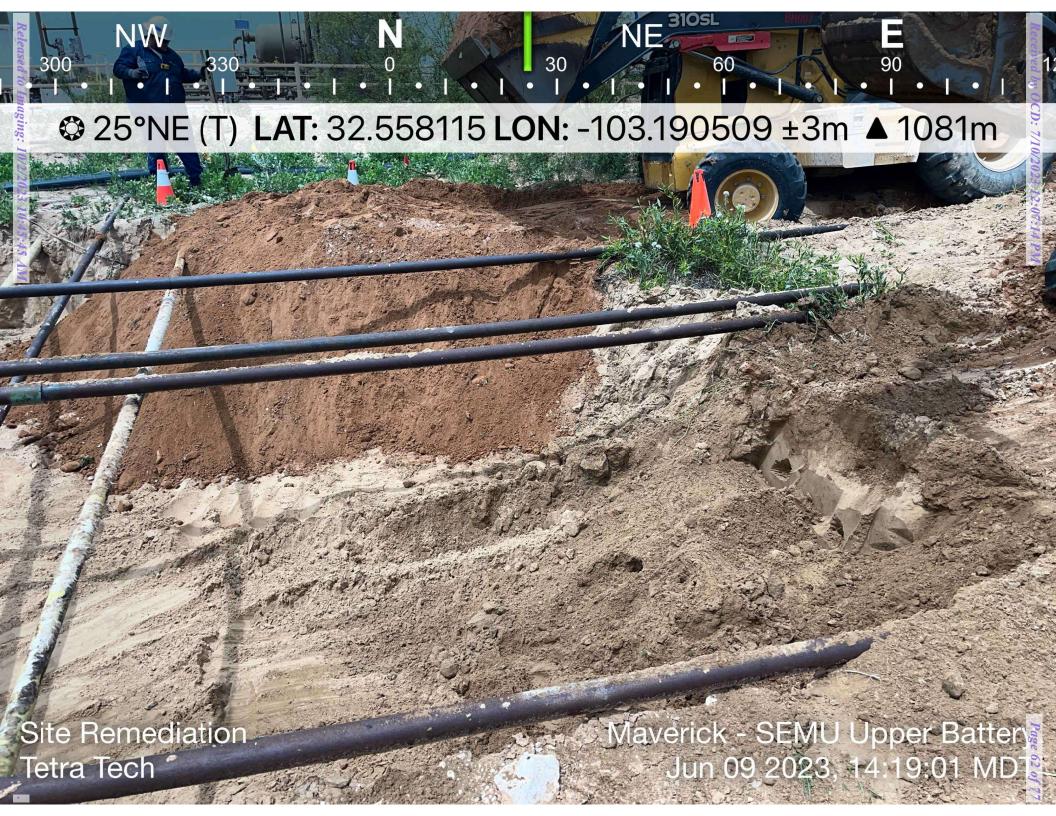
Celeg D. Freene

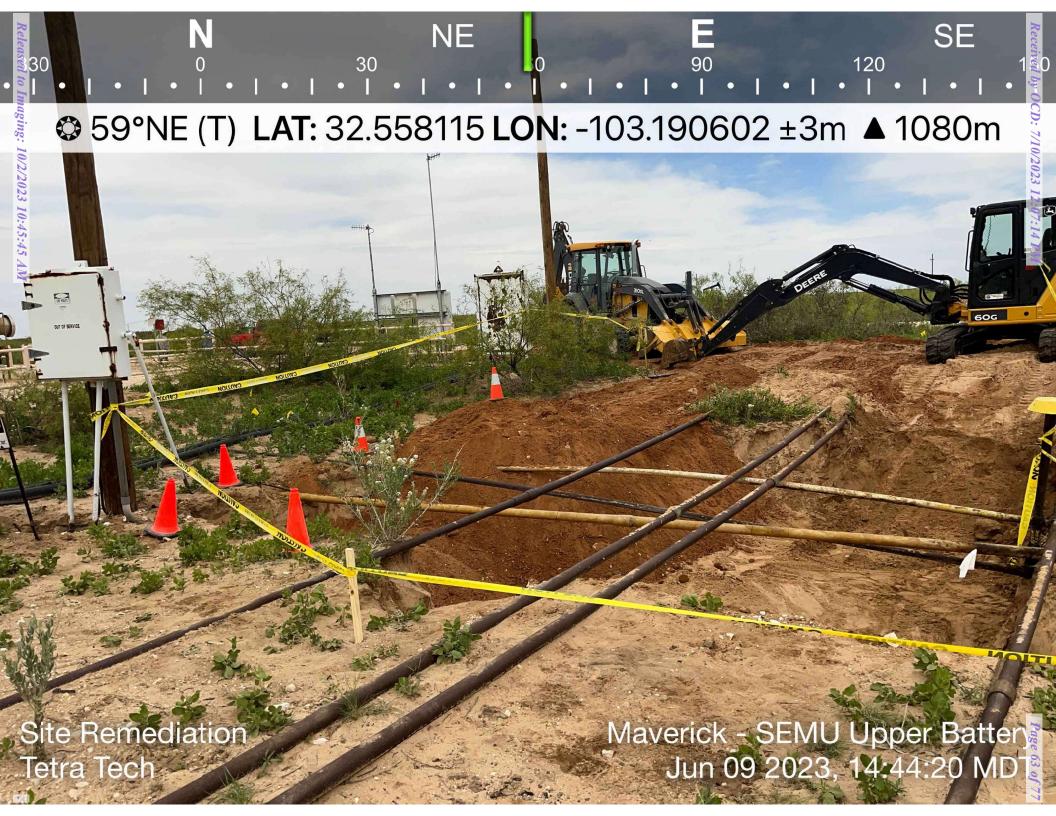
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BH-3 (4') 6/21/2023 X X X X X X X X X	voice to:	chuck.terhune@tetratech.com									11		e Ha	ge Hg			П				attache		
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\$ SW-6 \$ SW-7 \$ 6/21/2023	4	SW-5	6/21/2023	0/2//2023					+		H	H	+	Н	+	+	+	×	+	+	\vdash		
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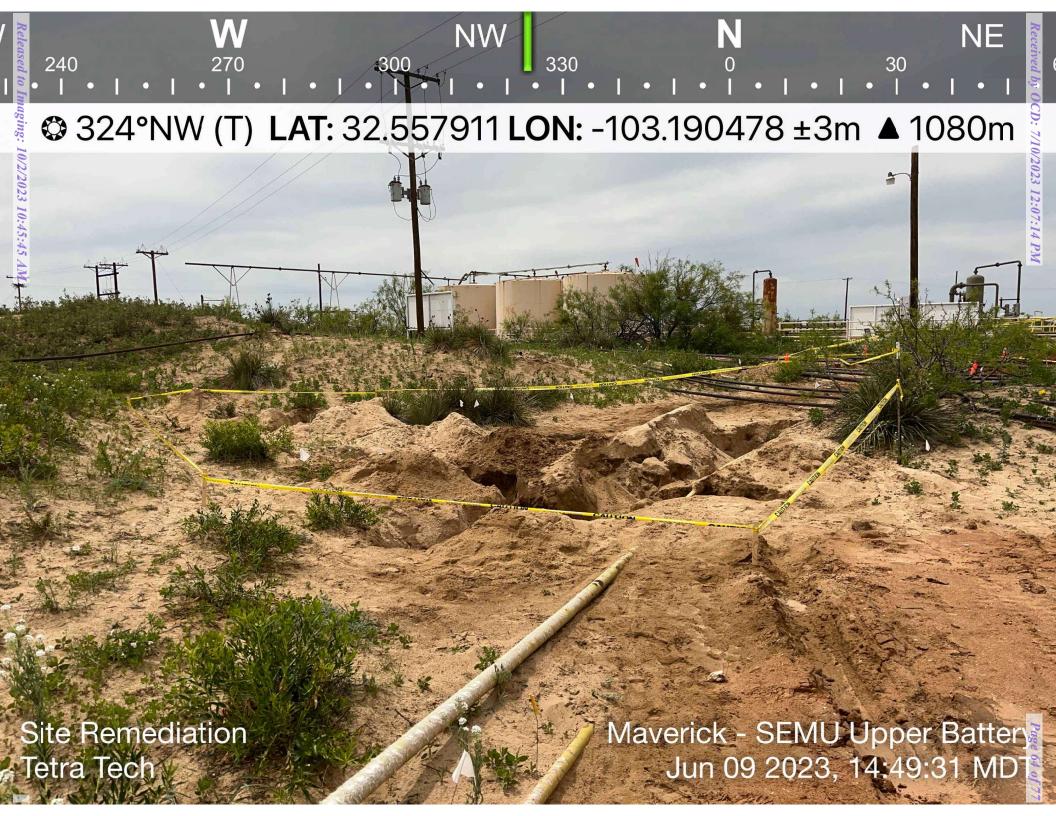
Site Remediation Closure Report SEMU Permian Upper Battery nAPP2207049431 Maverick Permian, LLC June 30, 2023

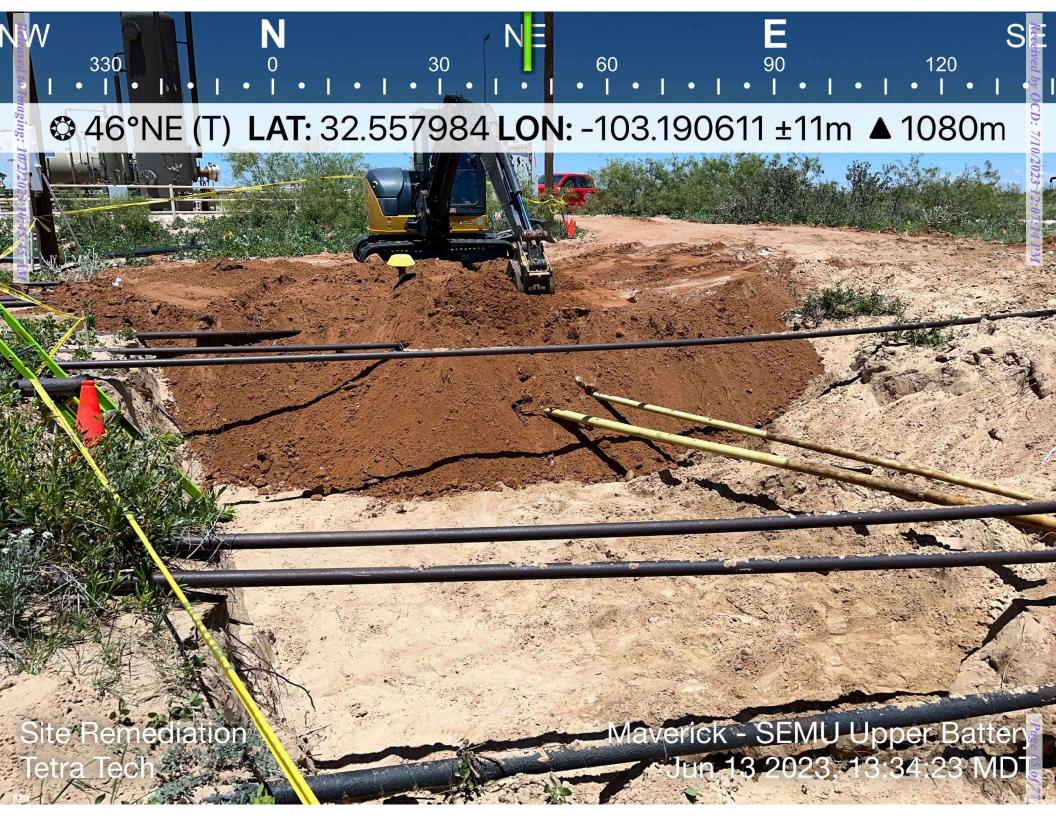
ATTACHMENT 4: PHOTOGRAPHIC DOCUMENTATION











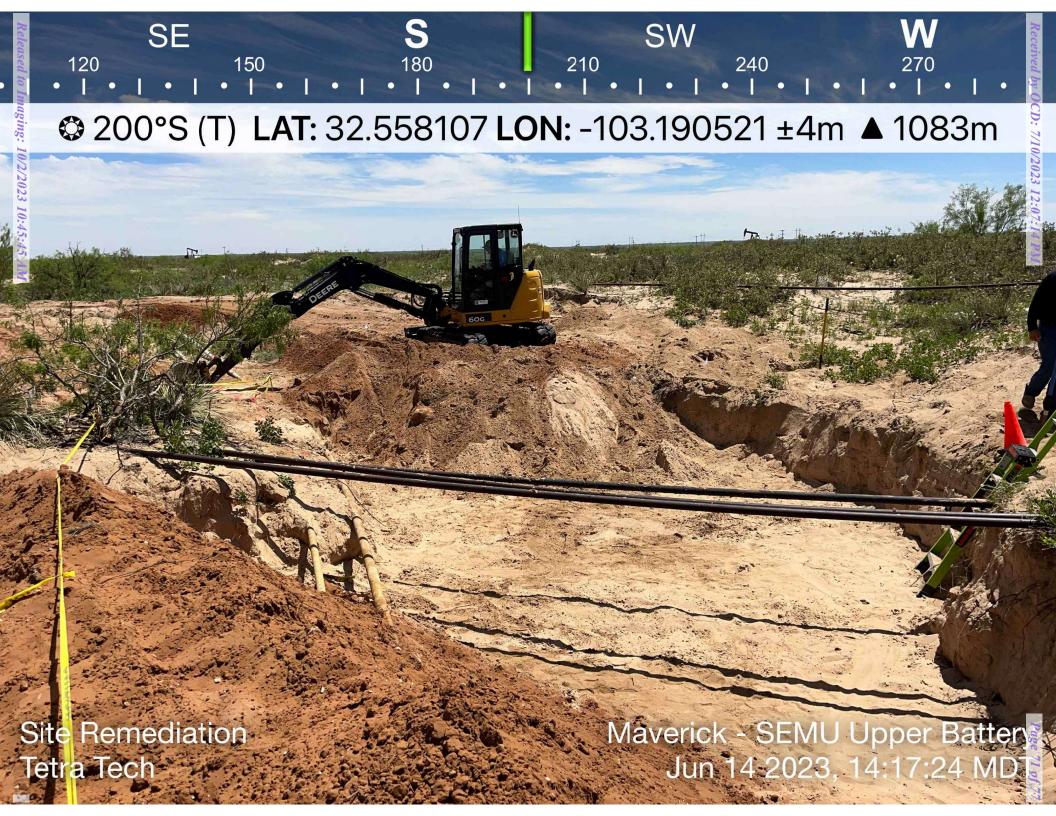


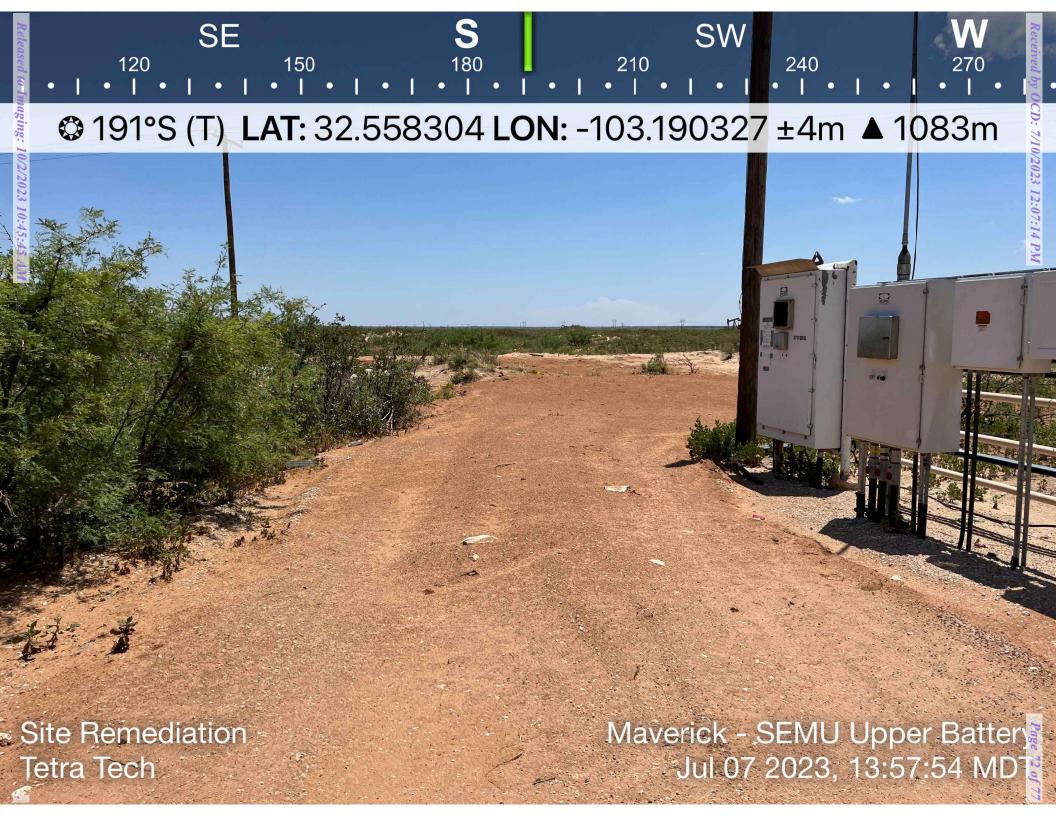


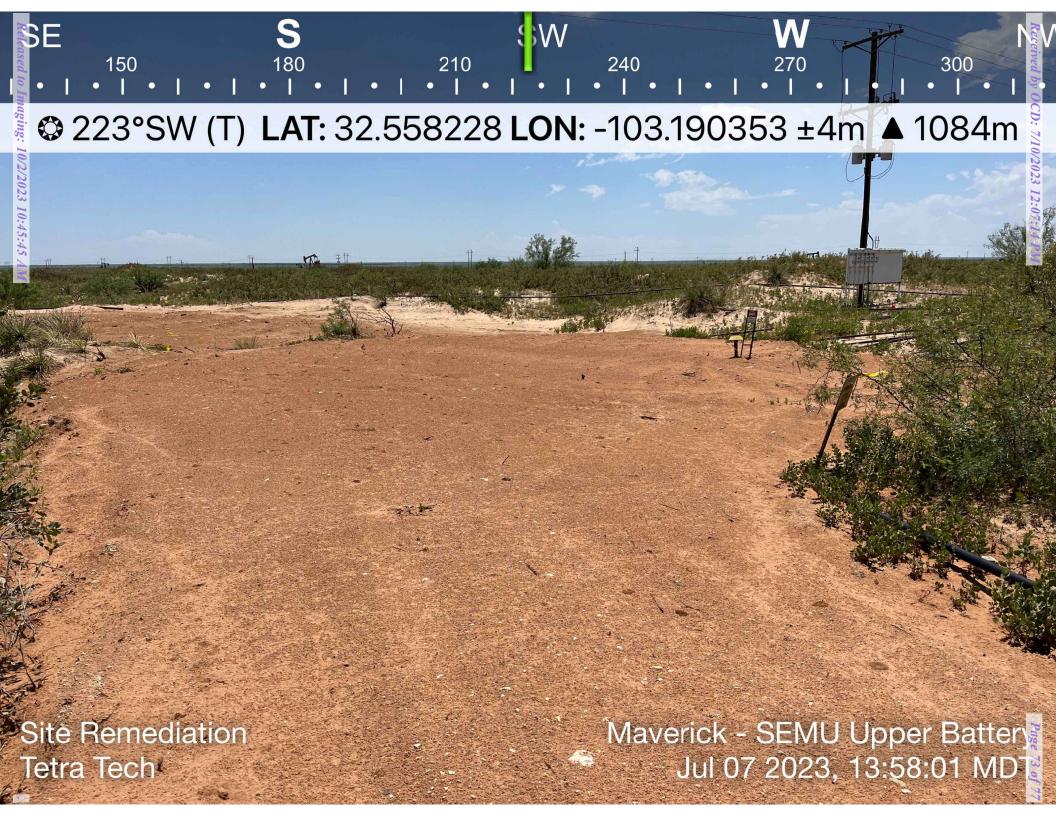


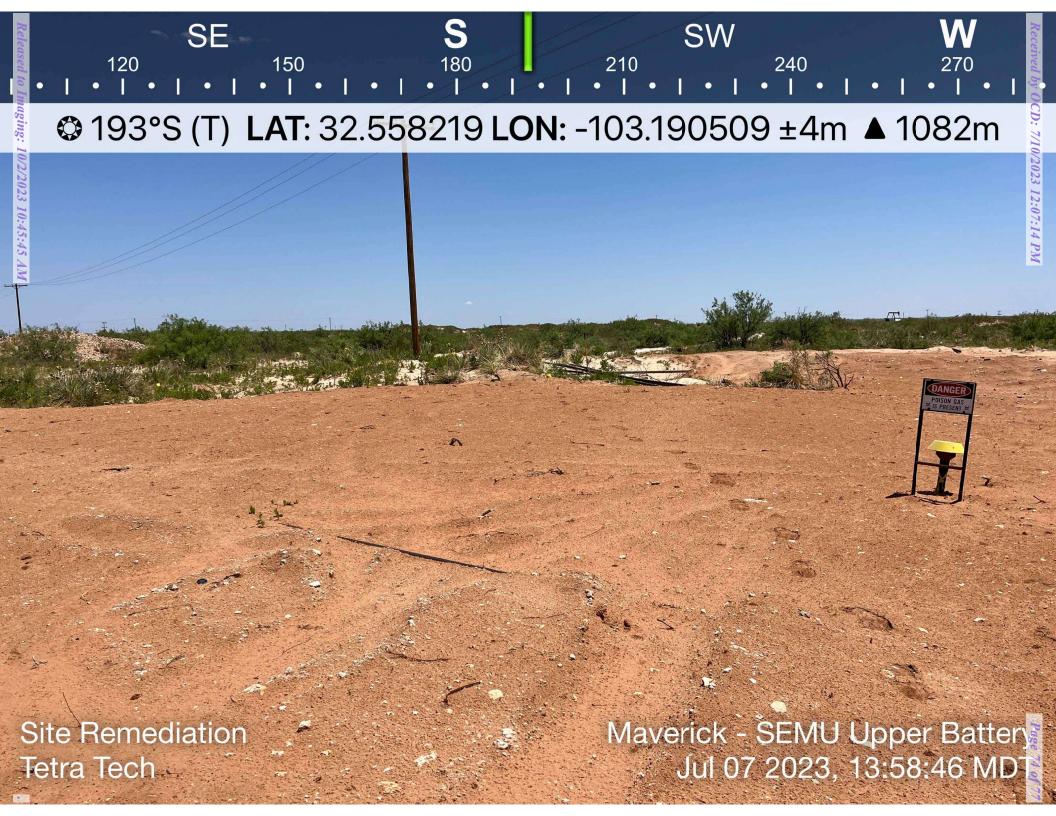












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ATTACHMENT 5: NMSLO SEED MIXTURE DETAILS

Released to Imaging: 10/2/2023 10:45:45 AM

NMSLO Seed Mix

Sandy (S)

SANDY (S) SITES SEED MIXTURE:

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
Grasses:			
Sand bluestem	Elida, VNS, So.	2.0	\mathbf{F}
Little bluestem	Cimarron, Pastura	3.0	${f F}$
Black grama	VNS, Southern	7777-1.0	D
Sand dropseed	VNS, Southern	4.0	\mathbf{S}
Plains bristlegrass	VNS, Southern	2.0	\mathbf{D}
		1 1/3	
Forbs:	200000	0000	2
Firewheel (Gaillardia)	VNS, Southern	1.0	D
Annual Sunflower	VNS, Southern	1.0	D
		9	B
Shrubs:		0	B
Fourwing Saltbush	VNS, Southern	1.0	F
N. Carlot			Om B
	Total PLS/ac	re 16.0	8 B
N			ST B

 $S = Small\ seed\ drill\ box,\ D = Standard\ seed\ drill\ box,\ F = Fluffy\ seed\ drill\ box\ VNS = Variety\ Not\ Stated,\ PLS = Pure\ Live\ Seed$

- Seed mixes should be provided in bags separating seed types into the three categories: small (S), standard (D) and fluffy (F).
- VNS, Southern Seed should be from a southern latitude collection of this species.
- Double seed application rate for broadcast or hydroseeding.
- If one species is not available, contact the SLO for an approved substitute; alternatively the SLO may require other species proportionately increased.
- Additional information on these seed species can be found on the USDA Plants Database website at http://plants.usda.gov.



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 237953

CONDITIONS

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	237953
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
nvelez	None	10/2/2023