

May 25, 2023

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

Re: Remediation and Closure Report
Maverick Permian, LLC
MCA 94 Flowline Leak
Unit Letter P, Section 20, Township 17 South, Range 32 East
Lea County, New Mexico
Incident ID# nAPP2212531906

Dear Sir or Madam,

Tetra Tech, Inc. (Tetra Tech) was contracted by Maverick Permian, LLC (Maverick) to complete the remediation of a release that occurred at the Maljamar Cooperative Agreement (MCA) 94 flowline, located in Unit Letter P, Section 20, Township 17 South, Range 32 East, in Lea County, New Mexico (Site). The release occurred at coordinates 32.81441°, -103.783172°, as shown in **Figure 1** and **Figure 2**.

BACKGROUND

According to the State of New Mexico Oil Conservation Division (NMOCD) C-141 Initial Report, the release was discovered on April 28, 2022. The C-141 reports that the release occurred from a flowline failure as the result of maintenance issues leading to a 125 barrel (bbl) release of produced water off-pad. No fluids were recovered during the initial response due to sandy soil in the release area. The NMOCD received the Initial C-141 on May 5, 2022, and subsequently assigned the release Incident ID nAPP2212531906. The previous operator, ConocoPhillips Company (COP) sold the asset to Maverick who took over operations on June 1, 2022, and COP postponed site assessment and remediation activities until after the sale was finalized. The initial C-141 Release notification form is included in **Attachment 1**.

SITE CHARACTERIZATION

Ensolum, LLC (Ensolum) performed a site characterization furnished to the NMOCD in previous submittals under this incident number. Tetra Tech performed a separate site characterization for the release location to verify the previously submitted information and fill data gaps. Tetra Tech did not identify any watercourses, sinkholes, playas, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains within the distances specified in 19.15.09 New Mexico Administrative Code (NMAC). Based on a review of the NMOCD Mapper The Site is in an area of low karst potential, as shown in **Attachment 2**.

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. According to the 2022 Annual Report for the Maljamar E&P groundwater abatement site (Administrative/Environmental Order AP-115-1), Maljamar E&P groundwater monitoring well MW-14 is located approximately 0.35-miles east of the release site at coordinates 32.814509°, -103.776521°. MW-14 was installed in March of 2002 and most recently measured for depth to water by Tetra Tech on October 4, 2022, where depth to groundwater was reported as 74.14 feet below

ground surface (bgs). The MW-14 boring log with well construction details and the October 2022 measured groundwater level are provided in **Attachment 2**.

According to the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS), the Site is mapped as having Kermit Soils and Dune Land, 0 to 12 Percent Slopes, which has a published soil profile of fine sand from surface to 5 feet bgs, and is classified as a sandy soil. The USDA NCRS Soil Map is provided in **Attachment 2**.

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 chloride in soil.

Based on the site characterization and in accordance with Table I of 19.15.29.12 NMAC, the remediation RRALs for the Site for groundwater between 51 and 100 feet bgs are as follows:

Constituent	Remediation RRAL
Chloride	10,000 mg/kg
TPH (GRO+DRO+ORO)	2,500 mg/kg
BTEX	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	Remediation RRAL
Chloride	600 mg/kg
TPH (GRO+DRO+ORO)	100 mg/kg

INITIAL RESPONSE ACTIVITIES

The release occurred due to a hole in a poly flowline resulting in the release onto an approximately 13,000 square foot area in open pasture where fluids pooled, as shown in **Figure 3**. According to Site records, no fluids were recovered during initial response activities undertaken by the former operator, ConocoPhillips Company (COP). COP sold the Site to Maverick who took over operations in June 2022, and COP postponed remedial activities until the asset sale was finalized. Confirmation samples were not collected during the initial response activities. The approximate release area is shown in **Figure 3**.

ENSOLUM SITE ASSESSMENT SUMMARY AND LABORATORY ANALYTICAL RESULTS

On August 8, 2022, personnel from Ensolum completed a Site visit to evaluate the release extent. Ensolum collected seven preliminary surface soil samples. Preliminary soil samples were field screened for Volatile Organic Compounds (VOCs) with a photoionization detector (PID) and chloride Hach® chloride QuanTab® test strips. Ensolum mapped the release extent and preliminary surface soil sampling locations with a handheld global positioning system (GPS) and photographically documented the release Site.

A total of seven preliminary surface soil samples were collected from the upper 6-inches and submitted to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico for analysis of Total Petroleum Hydrocarbons (GRO, DRO, and EXT DRO) by EPA Method 8015M, benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA Method 300.00. Copies of the laboratory analytical data packages were previously provided in the Ensolum *Revised Remediation Work Plan MCA 94* submitted to the NMOCD on December 22, 2022 (Revised Remediation Workplan).

Ensolum preliminary surface soil samples SS01, SS03, SS05, and SS06 reported chloride concentrations as greater than NMOCD Reclamation Requirements under NMAC 19.15.29.13; therefore, additional delineation of waste-containing soil was warranted at the Site of the release.

ENSOLUM DELINEATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Between October 3 and October 6, 2022, Ensolum personnel conducted delineation activities at the Site to assess the vertical and lateral extent of chloride impacts to soil. Potholes PH01 through PH06 were excavated with a track-mounted backhoe within and around the release extent. The potholes were excavated depths of approximately 12 feet bgs before refusal was encountered. Ensolum collected discrete delineation soil samples were collected from each pothole at depths ranging from 1 to 12 feet bgs. Soil from the potholes was field screened for VOCs and chloride. Field screening results and observations of material excavated from potholes were logged on lithologic/soil sampling logs, which were previously submitted to the NMOCD in the Revised Remediation Workplan on December 22, 2022. The Ensolum delineation soil sample locations are depicted in **Figure 3**.

Laboratory analytical results for the delineation soil samples PH01 through PH06 reported concentrations of COCs as less than NMAC 19.15.29.12 Table I Closure Criteria for Soils Impacted by a Release with the exception of the sample collected from PH04 from 8 feet bgs, which reported chloride at a concentration of 10,300 mg/L. Laboratory analytical results for the delineation soil samples collected from potholes indicated waste-containing soil is also present within the upper 4 feet of soil off-pad at PH01 and PH02. The laboratory analytical results are summarized in **Table 1** and **Table 2**, complete laboratory analytical data packages were previously submitted to the NMOCD in the Revised Remediation Workplan on December 22, 2022.

ENSOLUM REMEDIATION WORK PLAN AND APPROVAL

Ensolum prepared the Revised Remediation Workplan on behalf of Maverick and submitted it to the NMOCD on December 22, 2022, with the required fee application. The workplan describes the results of the release assessment and provided the characterization of impacts at the Site. The Work Plan was approved by Jennifer Mobui on January 20, 2023.

TETRA TECH SCREENING ACTIVITIES AND RESULTS

Subsequent to NMOCD approval of the Ensolum Revised Remediation Workplan, Maverick engaged Tetra Tech to undertake the execution of the Revised Remediation Workplan. To verify the information presented in the Revised Remediation Workplan, Mr. Miguel Flores of Tetra Tech mobilized to the Site on On April 19, 2023, to conduct additional chloride screening of soils within the vicinity of the Ensolum mapped release footprint to verify the lateral

extents of areas requiring remediation at the Site. Tetra Tech advanced 26 hand auger borings around the release Site as shown in **Figure 4.**

Additional chloride screening results indicated remediation would likely not be required in the area within SS02, PH05, AH-19, AH-21, AH-22, AH-24, and AH-25, and the area within SS04, PH03, AH-6, AH-7, AH-12, AH-13, AH-14, AH. Chloride screening results are summarized in **Table 3** and **Table 4**.

REMEDIATION AND CONFIRMATION SAMPLING

Based on the Ensolum soil assessment and delineation results and the Tetra Tech screening of the release and the approved remediation work plan, excavation activities commenced on April 26 and concluded on May 11, 2023. Maverick's subcontractor, McNabb Partners, LLC used heavy equipment to excavate impacted soil from the remediation areas as shown in Figure 5 to maximum depths of 2, 4, and 10 feet below the surrounding ground surface as shown in **Figure 5**. To avoid any potential contact by heavy equipment with pressurized lines within the remediation area, heavy equipment was maintained at a distance of at least 2 feet from pressurized lines where hydro-excavation and hand-digging were employed.

McNabb excavated and transported 1,254 cubic yards of contaminated soil to R360 Halfway and 6 yards of contaminated soil to Sundance Disposal for offsite disposal. McNabb sourced 1,224 cubic yards of topsoil from the Caviness Pit for backfill of the excavated areas.

Upon reaching the final lateral and vertical excavation extents of the excavation, Tetra Tech collected 45 confirmation samples, including 23 floor samples and 22 side wall samples from the excavated areas. confirmation samples were submitted to Cardinal Laboratory in Hobbs, New Mexico for analysis of chloride (SM4500 CL-B). Laboratory analytical results for submitted confirmation samples reported concentrations of chloride as less than respective Reclamation Requirements for samples collected from depths above 4 feet bgs. For all samples obtained at or below a depth of 4 feet bgs, laboratory analytical results reported constituent concentrations as less than RRALs, and clean margins were demonstrated.

On May 10, 2023, subsequent to the receipt of confirmation sample results, McNabb completed backfilling of the excavated areas with clean soil. Confirmation sampling laboratory analytical results screened against Reclamation Requirements and RRALs are summarized in **Table 5** and **Table 6** 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**.

The backfilled areas have been graded and seeded with New Mexico State Land Office (NMSLO) Sandy (S) Sites Seed Mixture in accordance with the Site soil profile detailed above in the Site Characterization Section, to aid in vegetation growth to complete reclamation. The seed mixture applied to the remediation Site is provided in **Attachment 5.**

CONCLUSION

Based on the results of the confirmation sampling, the impacted soil within the release footprint with chloride concentrations greater than Reclamation Requirements and/or RRALs has been removed and properly disposed of offsite and the excavated area has been backfilled with clean material, graded, and seeded with BLM approved seed mixture; therefore, Site remediation is complete. If you have any questions concerning the remediation activities for the Site, please call me at (832) 252-2093.

Sincerely,

Charles H. Terhune IV, P.G.

Program Manager

Tetra Tech, Inc.

Steve Jester

Program Manager

Tetra Tech, Inc.

CC:

Bryce Wagoner, Maverick Permian, LLC

Bureau of Land Management

LIST OF ATTACHMENTS

Figures

- Figure 1 Overview Map
- Figure 2 Topographic Map
- Figure 3 Approximate Release Extent and Site Features
- Figure 4 Ensolum Site Assessment Map
- Figure 5 Tetra Tech Site Screening Map
- Figure 6 Remediation Extent and Confirmation Sample Locations

Tables

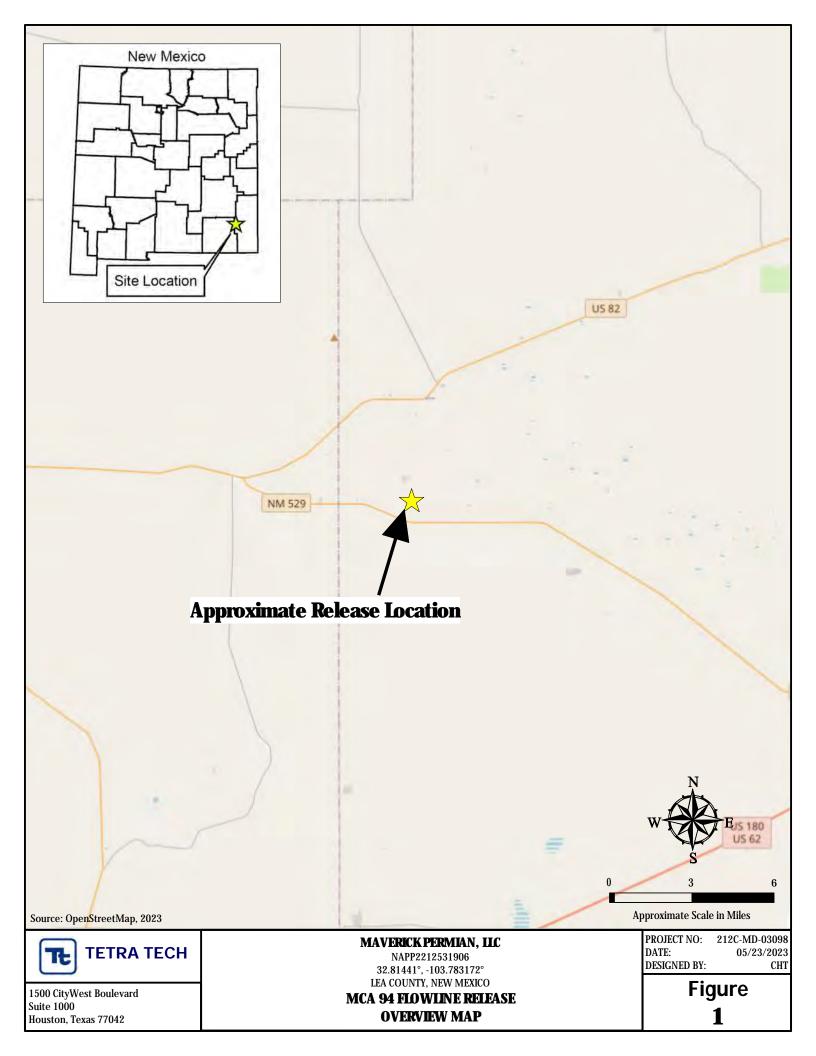
- Table 1 Summary of Shallow Soil Analytical Results Ensolum Assessment Sampling
- Table 2 Summary of Deep Soil Analytical Results Ensolum Assessment Sampling
- Table 3 Summary of Shallow Soil Screening Results Tetra Tech Soil Screening
- Table 4 Summary of Deep Soil Screening Results Tetra Tech Soil Screening
- Table 5 Summary of Shallow Soil Analytical Results Confirmation Sampling
- Table 6 Summary of Deep Soil Analytical Results Confirmation Sampling

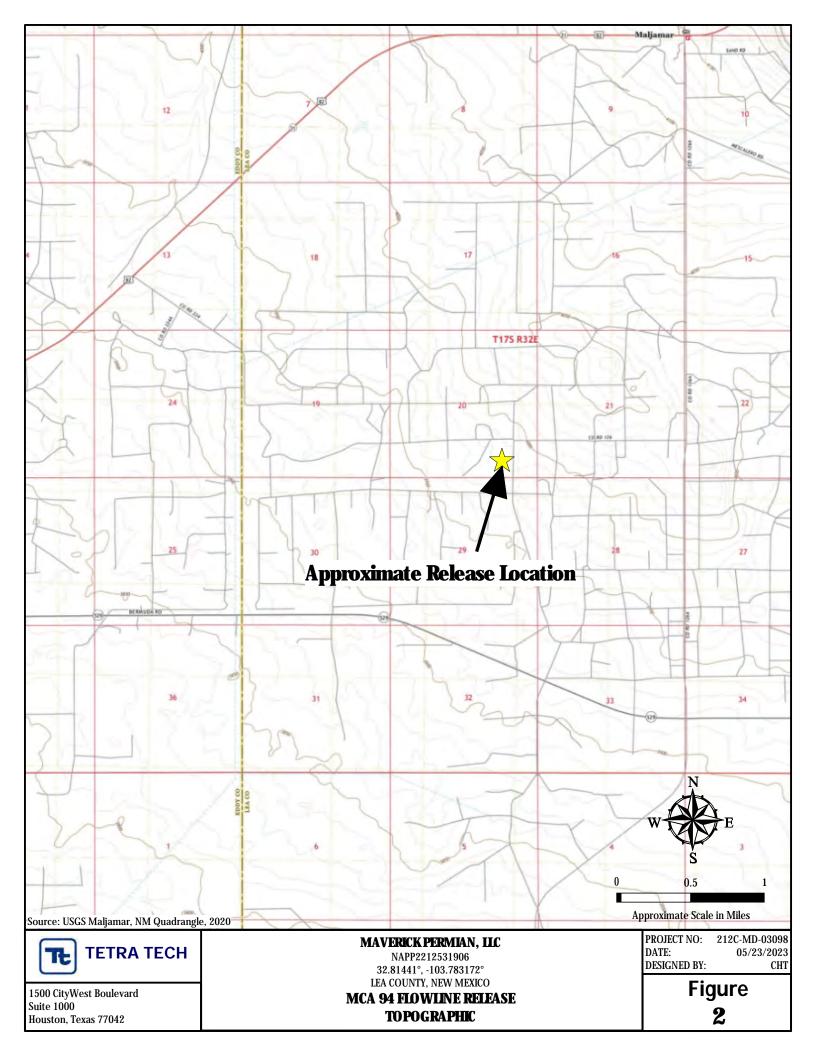
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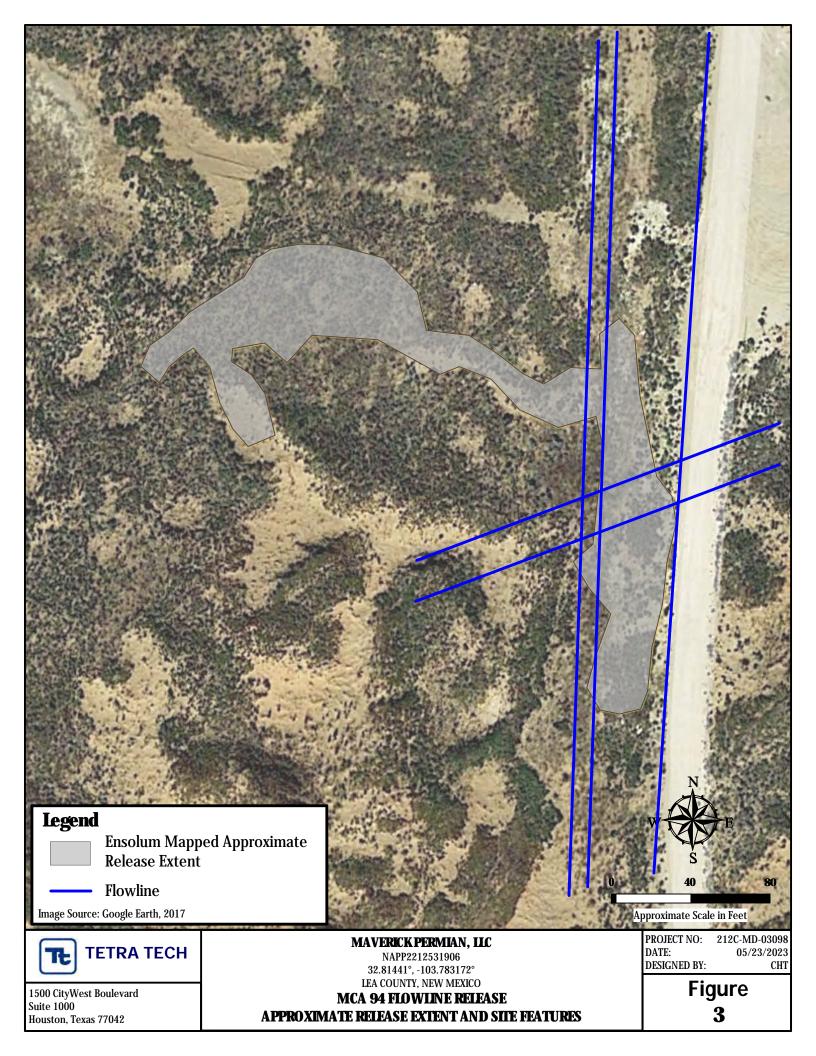
- Attachment 1 C-141 Forms
- Attachment 2 Site Characterization Data
- Attachment 3 Laboratory Analytical Data
- Attachment 4 Photographic Documentation
- Attachment 5 NMSLO Seed Mixture Details

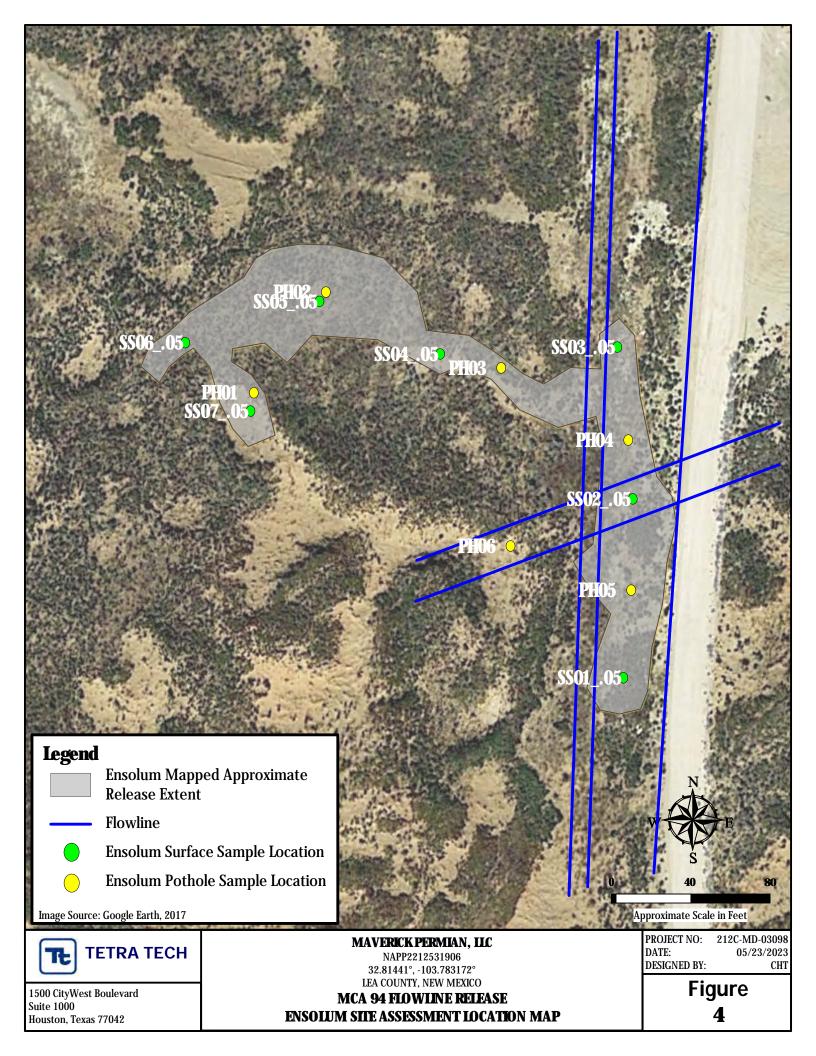
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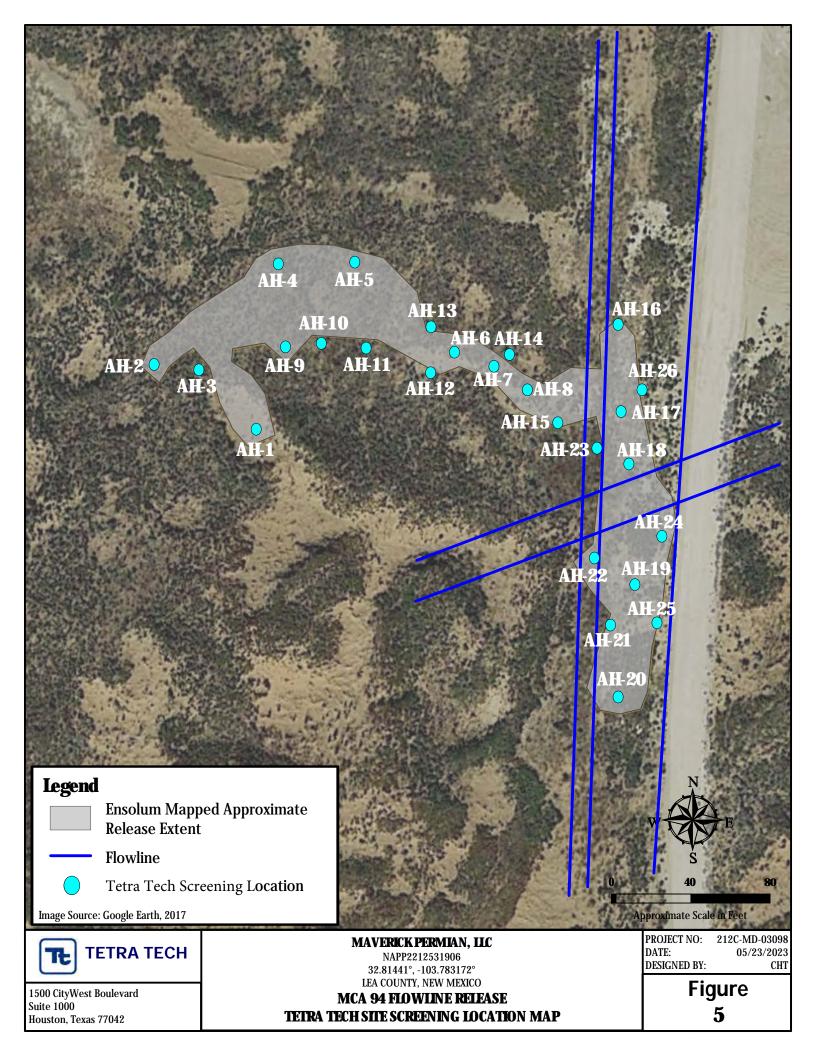
FIGURES

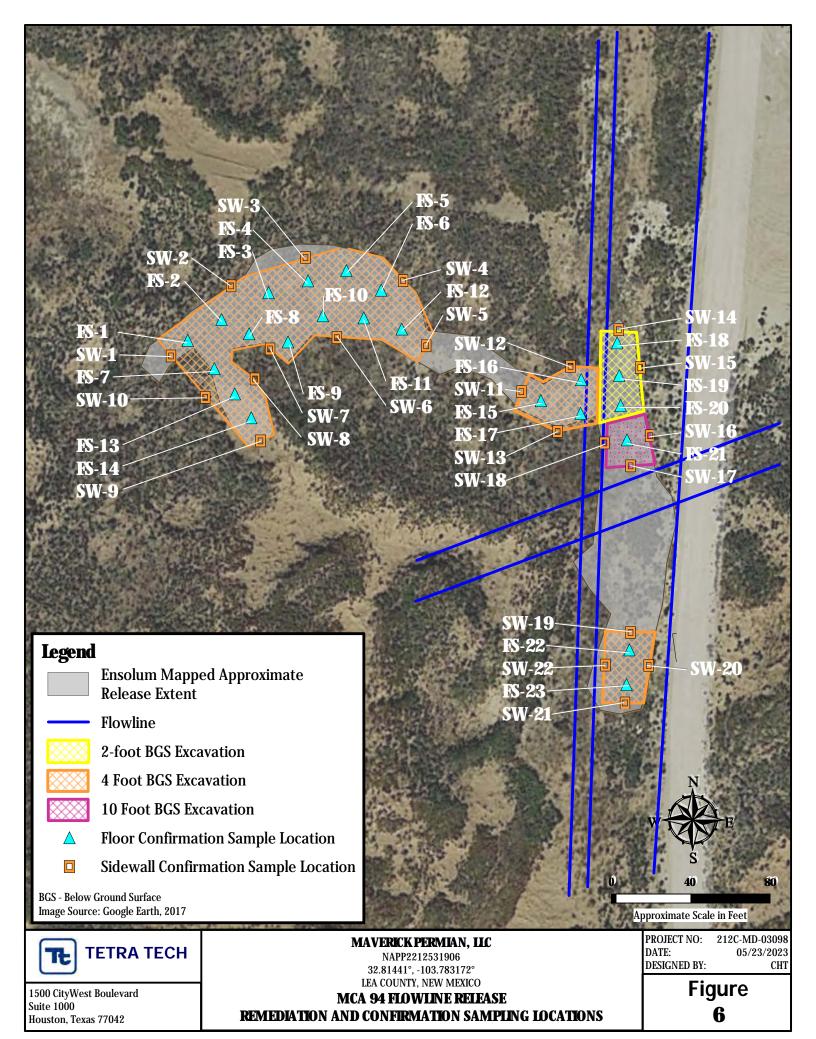












May 25, 2023

TABLES

SUMMARY OF SHALLOW SOIL ANALYTICAL RESULTS ENSOLUM ASSESSMENT SAMPLING - INCIDENT ID NAPP2212531906 MAVERICK PERMIAN, LLC MCA 94 FLOWLINE RELEASE

LEA COUNTY, NEW MEXICO

					BTEX ²									TPH ³								
Comple ID Comple Date	Sample Date	Sample Depth	Chloride	Chloride ¹		Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX			DRO		EXT DRO		Total TPH	
Sample ID	Sample Date				Delizelle		Toluelle		Luiyibeliz	ene	TOTAL AYIE	iles	TOTAL	^	C ₆ - C ₁₀		> C ₁₀ - C ₂	8	> 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 Requires	ments (19.15.29 NMA	4 <i>C)</i>	600		10								50								100	
SS01	8/8/2022	0.5	5,960		<0.00201		<0.00201		<0.00201		<0.00402		<0.00402		<50.0		<50.0		<50.0		<50.0	
SS02	8/8/2022	0.5	545		<0.00200		<0.00200		<0.00200		<0.00400		<0.00400		<50.0		<50.0		<50.0		<50.0	
SS03	8/8/2022	0.5	2,520		<0.00199		<0.00199		<0.00199		<0.00398		<0.00398		<50.0		<50.0		<50.0		<50.0	
SS04	8/8/2022	0.5	429		<0.00201		<0.00201		<0.00201		<0.00402		<0.00402		<50.0		<50.0		<50.0		<50.0	
SS05	8/8/2022	0.5	4,870		<0.00199		<0.00199		<0.00199		<0.00398		<0.00398		<49.9		55.6		<49.9		56	
SS06	8/8/2022	0.5	3,460		<0.00200		<0.00200		<0.00200		<0.00399		<0.00399		<49.9		<49.9		<49.9		<49.9	
SS07	8/8/2022	0.5	5.76		<0.00201		<0.00201		<0.00201		<0.00402		<0.00402		<49.9		<49.9		<49.9		<49.9	
PH01	10/3/2022	2	9,380		<0.00201		<0.00201		<0.00201		<0.00402		<0.00402		<50.0		<50.0		<50.0		<50.0	
PH02	10/4/2022	3	7,810		<0.00200		<0.00200		<0.00200		<0.00399		<0.00399		<50.0		<50.0		<50.0		<50.0	
PH05	10/6/2022	3	164		<0.00201		<0.00201		<0.00201		<0.00402		<0.00402		<50.0		<50.0		<50.0		<50.0	
PH06	10/6/2022	1	38		<0.00201		<0.00201		<0.00201		<0.00402		<0.00402		<49.8		<49.8		<49.8		<49.8	

NOTES:

bgs: Below ground surface mg/kg: Milligrams per kilogram TPH: Total Petroleum Hydrocarbons GRO: Gasoline Range Organics

DRO: Diesel Range Organics
ORO: Oil Range Organics

1: Method SM4500Cl-B 2: Method 8021B

3: Method 8015M

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

SUMMARY OF DEEP SOIL ANALYTICAL RESULTS ENSOLUM ASSESSMENT SAMPLING - INCIDENT ID NAPP2212531906 MAVERICK PERMIAN, LLC

MCA 94 FLOWLINE RELEASE LEA COUNTY, NEW MEXICO

					BTEX ²									TPH ³								
Convole ID Convole Date	Sample Date	Sample Depth	Chloride ¹		Ponzona	D		Taluana		200	Total Vulor	Total Xylenes		Total BTEX			DRO		EXT DRO)	Total TPH	
Sample ID	Sample Date				Benzene	đ	Toluene	:	Ethylbenze	ene	Total Ayler	ies	IOLAIDIE	^	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	
RRALs (Table I 19.15.2	29.12 NMAC)		10,000		10								50								2,500	
PH01	10/3/2022	10	1,170		<0.00198		<0.00199		<0.00199		<0.00398		<0.00396		<50.0		<50.0		<50.0		<50.0	
PH01	10/4/2022	12	6,400		<0.00201		<0.00201		<0.00201		<0.00402		<0.00402		<50.0		<50.0		<50.0		<50.0	
PH02	10/4/2022	12	7,510		<0.00199		<0.00199		<0.00199		<0.00398		<0.00398		<50.0		<50.0		<50.0		<50.0	
PH03	10/4/2022	10	9,320		<0.00201		<0.00201		<0.00201		<0.00402		<0.00402		<49.8		<49.8		<49.8		<49.8	
PH03	10/4/2022	12	8,940		<0.00200		<0.00200		<0.00200		<0.00401		<0.00401		<49.8		<49.8		<49.8		<49.8	
PH04	10/4/2022	8	10,300		<0.00200		<0.00200		<0.00200		<0.00399		<0.00399		<49.8		<49.8		<49.8		<49.8	
PH04	10/4/2022	12	7,190		<0.00199		<0.00199		<0.00199		<0.00398		<0.00398		<49.9		<49.9		<49.9		<49.9	
PH05	10/6/2022	10	6,350		<0.00200		<0.00200		<0.00200		<0.00399		<0.00399		<49.8		<49.8		<49.8		<49.8	
PH05	10/6/2022	12	7,310		<0.00199		<0.00199		<0.00199		<0.00398		<0.00398		<50.0		<50.0		<50.0		<50.0	
PH06	10/6/2022	5	142		<0.00200		<0.00200		<0.00200		<0.00401		<0.00401		<49.8		<49.8		<49.8		<49.8	
PH06	10/6/2022	9	50.9		<0.00199		<0.00199		<0.00199		<0.00398		<0.00398		<49.9		<49.9		<49.9		<49.9	
PH06	10/6/2022	12	33.2		<0.00199		<0.00199		<0.00199		<0.00398		<0.00398		<49.9		<49.9		<49.9		<49.9	

NOTES:

bgs: Below ground surface

mg/kg: Milligrams per kilogram

TPH: Total Petroleum Hydrocarbons

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

1: Method SM4500Cl-B

2: Method 8021B 3: Method 8015M Bold and highlighted values indicate exceedance of Table I 19.15.29.12 NMAC.

SUMMARY OF SHALLOW SOIL SCREENING RESULTS SOIL SCREENING - INCIDENT ID NAPP2212531906 MAVERICK PERMIAN, LLC MCA 94 FLOWLINE RELEASE LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride ¹	
Sample ID	Sample Date	feet bgs	mg/kg	Q
Reclamation Requireme	nts (19.15.29.13 NMAC)		600	
AH-1	4/19/2023	1.5 - 2.5	1,870	
AH-2	4/19/2023	1.5 - 2.5	458	
AH-3	4/19/2023	1.5 - 2.5	712	
AH-4	4/19/2023	1.5 - 2.5	445	
AH-5	4/19/2023	1.5 - 2.5	4,620	
AH-6	4/19/2023	1.5 - 2.5		
AH-7	4/19/2023	1.5 - 2.5	140	
AH-8	4/19/2023	1.5 - 2.5	1,100	
AH-9	4/19/2023	1.5 - 2.5	1,470	
AH-10	4/19/2023	1.5 - 2.5	320	
AH-11	4/19/2023	1.5 - 2.5	1,440	
AH-12	4/19/2023	1.5 - 2.5	532	
AH-13	4/19/2023	1.5 - 2.5	434	
AH-14	4/19/2023	1.5 - 2.5	120	
AH-15	4/19/2023	1.5 - 2.5	2,600	
AH-16	4/19/2023	1.5 - 2.5	50	
AH-19	4/19/2023	1.5 - 2.5	296	
AH-20	4/19/2023	1.5 - 2.5	446	
AH-21	4/19/2023	1.5 - 2.5	275	
AH-22	4/19/2023	1.5 - 2.5	477	
AH-23	4/19/2023	1.5 - 2.5	122	
AH-24	4/19/2023	1.5 - 2.5	168	
AH-25	4/19/2023	1.5 - 2.5	234	
AH-26	4/19/2023	1.5 - 2.5	88	

NOTES:

1: Chloride measured as salinity with an ExTech ExStik II

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

Bold values indicate exceedance of Reclamation Requirements (19.15.29.13 NMAC)

SUMMARY OF DEEP SOIL SCREENING RESULTS SOIL SCREENING - INCIDENT ID NAPP2212531906 MAVERICK PERMIAN, LLC MCA 94 FLOWLINE RELEASE LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride ¹	
Sample 1D	Sample Date	feet bgs	mg/kg	Q
RRALs (Table I 19.15.29.	12 NMAC)		10,000	
AH-6	4/19/2023	4.0 - 4.5	11	
AH-7	4/19/2023	4.0 - 4.5	2,400	
AH-8	4/19/2023	4.0 - 4.5	3,530	
AH-17	4/19/2023	4.0 - 4.5	8,010	
AH-18	4/19/2023	4.0 - 4.5	6,080	
AH-19	4/19/2023	4.0 - 4.5	287	
AH-23	4/19/2023	4.0 - 4.5	967	

NOTES:

1: Chloride as salinity measured with an ExTech Exstick II

bgs: Below ground surface

mg/kg: Milligrams per kilogram

Bold and highlighted values indicate exceedance of Table I 19.15.29.12 NMAC.

SUMMARY OF SHALLOW SOIL ANALYTICAL RESULTS CONFIRMATION SAMPLING - INCIDENT ID NAPP2212531906 MAVERICK PERMIAN, LLC MCA 94 FLOWLINE RELEASE LEA COUNTY, NEW MEXICO

Comple ID	Commis Data	Sample Depth	Chloride ¹	
Sample ID	Sample Date	feet bgs	mg/kg	Q
Reclamation Requireme	nts (19.15.29.13 NMAC)		600	
FS-18	5/8/2023	2.0 - 2.5	224	
FS-19	5/8/2023	2.0 - 2.5	224	
FS-20	5/8/2023	2.0 - 2.5	208	
SW-1	5/1/2023	0.5 - 3.5	80	
SW-2	5/1/2023	0.5 - 3.5	128	
SW-3	5/8/2023	0.5 - 3.5	128	
SW-4	5/8/2023	0.5 - 3.5	144	
SW-5	5/8/2023	0.5 - 3.5	128	
SW-6	5/8/2023	0.5 - 3.5	144	
SW-7	5/8/2023	0.5 - 3.5	144	
SW-8	5/1/2023	0.5 - 3.5	64	
SW-9	5/1/2023	0.5 - 3.5	48	
SW-10	5/1/2023	0.5 - 3.5	80	
SW-11	5/8/2023	0.5 - 3.5	112	
SW-12	5/8/2023	0.5 - 3.5	160	
SW-13	5/8/2023	0.5 - 3.5	112	
SW-14	5/8/2023	0.5 - 1.5	144	
SW-15	5/8/2023	0.5 - 1.5	112	
SW-16	5/8/2023	0.5 - 9.0	112	
SW-17	5/8/2023	0.5 - 9.0	112	
SW-18	5/8/2023	0.5 - 9.0	128	
SW-19	5/8/2023	0.5 - 3.5	144	
SW-20	5/8/2023	0.5 - 3.5	144	
SW-21	5/8/2023	0.5 - 3.5	144	
SW-22	5/8/2023	0.5 - 3.5	128	

NOTES:

1: Chloride by Method SM4500Cl-B

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

Bold and highlighted values indicate exceedance of Reclamation Requirements (19.15.29.13 NMAC).

SUMMARY OF DEEP SOIL ANALYTICAL RESULTS CONFIRMATION SAMPLING - INCIDENT ID NAPP2212531906 MAVERICK PERMIAN, LLC MCA 94 FLOWLINE RELEASE LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride ¹	
Sample 1D	Sample Date	feet bgs	mg/kg	Q
RRALs (Table I 19.15.29.:	12 NMAC)		10,000	
FS-1	5/1/2023	4.0 - 4.5	64	
FS-2	5/1/2023	4.0 - 4.5	32	
FS-3	5/1/2023	4.0 - 4.5	48	
FS-4	5/8/2023	4.0 - 4.5	48	
FS-5	5/8/2023	4.0 - 4.5	128	
FS-6	5/8/2023	4.0 - 4.5	240	
FS-7	5/1/2023	4.0 - 4.5	224	
FS-8	5/1/2023	4.0 - 4.5	128	
FS-9	5/8/2023	4.0 - 4.5	176	
FS-10	5/8/2023	4.0 - 4.5	240	
FS-11	5/8/2023	4.0 - 4.5	208	
FS-12	5/8/2023	4.0 - 4.5	240	
FS-13	5/1/2023	4.0 - 4.5	80	
FS-14	5/1/2023	4.0 - 4.5	32	
FS-15	5/8/2023	4.0 - 4.5	1,390	
FS-16	5/8/2023	4.0 - 4.5	1,390	
FS-17	5/8/2023	4.0 - 4.5	1,420	
FS-21	5/8/2023	9.5 - 10.0	336	
FS-22	5/8/2023	4.0 - 4.5	1,330	
FS-23	5/8/2023	4.0 - 4.5	1,340	

NOTES:

1: Chloride by Method SM4500Cl-B

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

Bold and highlighted values indicate exceedance of Table I 19.15.29.12 NMAC.

May 25, 2023

ATTACHMENT 1 – C-141 FORMS

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

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible	Party			OGRID	OGRID						
Contact Nam	e			Contact T	elephone						
Contact emai	1			Incident #	Incident # (assigned by OCD)						
Contact mail	ing address										
			Location	of Release S	ource						
Latitude			(NAD 83 in dec	Longitude imal degrees to 5 decir	mal places)						
Site Name				Site Type							
Date Release	Discovered			API# (if app	plicable)						
Unit Letter	Section	Township	Range	Cour	nty						
Crude Oil	Material	Federal Tr	Nature and	Volume of	justification for t	he volumes provided below) covered (bbls)					
Produced		Volume Release				covered (bbls)					
Troduced	Water		ion of dissolved cl	nloride in the		No					
Condensa	te	Volume Released	d (bbls)		Volume Rec	covered (bbls)					
☐ Natural G	as	Volume Released	d (Mcf)		Volume Rec	covered (Mcf)					
Other (des	scribe)	Volume/Weight	Released (provide	units)	Volume/We	ight Recovered (provide units)					
Cause of Rela	ease										

Received by OCD: 12/22/2022 12:24:30/PM State of New Mexico Page 2 Oil Conservation Division

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Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the	responsible party consider this a major release?
19.15.29.7(A) NMAC?		
☐ Yes ☐ No		
If VEC was immediate n	otice given to the OCD? By whom?	To whom? When and by what means (phone, email, etc)?
II 1123, was illillediate lie	once given to the OCD: By whom:	To whom: When and by what means (phone, eman, etc):
	Initia	al Response
The responsible p	party must undertake the following actions imm	ediately unless they could create a safety hazard that would result in injury
☐ The source of the rele	ase has been stopped.	
☐ The impacted area ha	s been secured to protect human healt	h and the environment.
Released materials ha	ve been contained via the use of berm	s or dikes, absorbent pads, or other containment devices.
	ecoverable materials have been remov	
If all the actions described	l above have <u>not</u> been undertaken, exp	plain why:
D 1017.00 0 D (1) 1114	101	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.		
regulations all operators are public health or the environment failed to adequately investigation	required to report and/or file certain releasement. The acceptance of a C-141 report by ate and remediate contamination that pose	to the best of my knowledge and understand that pursuant to OCD rules and se notifications and perform corrective actions for releases which may endanger to the OCD does not relieve the operator of liability should their operations have a threat to groundwater, surface water, human health or the environment. In tor of responsibility for compliance with any other federal, state, or local laws
Printed Name		Title:
Signature:	tanisparge	Date:
email:		Telephone:
OCD Only		
Received by:Jocelyn	Harimon	Date: _05/05/2022

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 104337

CONDITIONS

Operator:	OGRID:
CONOCOPHILLIPS COMPANY	217817
600 W. Illinois Avenue	Action Number:
Midland, TX 79701	104337
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	5/5/2022

te of New Mexico

Incident ID	NAPP2212531906
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>50-100 (fe</u> et 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 X 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?	X 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 wells. Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps 			
☐ Laboratory data including chain of custody			

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

Received by OCD: 12/22/2022 12:24:30 PM Form C-141 State of New Mexico Oil Conservation Division Page 4

HSE Specialist

	Page 211 of 2	<i>13</i>
Incident ID	NAPP2212531906	
District RP		
Facility ID		
Application ID		

public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a the	he best of my knowledge and understand that pursuant to OCD rules and otifications and perform corrective actions for releases which may endanger e OCD does not relieve the operator of liability should their operations have hreat to groundwater, surface water, human health or the environment. In of responsibility for compliance with any other federal, state, or local laws
Printed Name:Bryce Wagoner	Title: Permian HSE Specialist II
Signature:	Date:
email:Bryce.Wagoner@mavresources.com	Telephone:928-241-1862
OCD Only	
Received by:	Date:12/22/2022

	Page 212 of 2	13
Incident ID	NAPP2212531906	
District RP		
Facility ID		
Application ID		

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.		
 Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 		
Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.		
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.		
Extents of contamination must be fully delineated.		
Contamination does not cause an imminent risk to human health, the environment, or groundwater.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: _Bryce Wagoner Title: _Permian HSE Specialist II Date: 12/22/2022 email: _Bryce.Wagoner@mavresources.com Telephone:928-241-1862		
OCD Only		
Received by: Jocelyn Harimon Date:12/22/2022		
☐ Approved		
Signature: Daniser Nobili Date: 01/20/2023		

District I
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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 169617

CONDITIONS

Operator:	OGRID:
Maverick Permian LLC	331199
1111 Bagby Street Suite 1600	Action Number:
Houston, TX 77002	169617
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Remediation Plan Approved with Conditions. Variance approved for chloride analyses only. Composite confirmation soil samples will be collected from the bottom of the excavation from areas representing no more than four hundred (400) square feet. Composite confirmation samples will be collected from the sidewalls of the excavation from areas representing no more than two hundred (200) square feet.	1/20/2023

Form C-141 Page 6

State of New Mexico Oil Conservation Division

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

Incident ID	NAPP2212531906
District RP	
Facility ID	
Application ID	

Closure

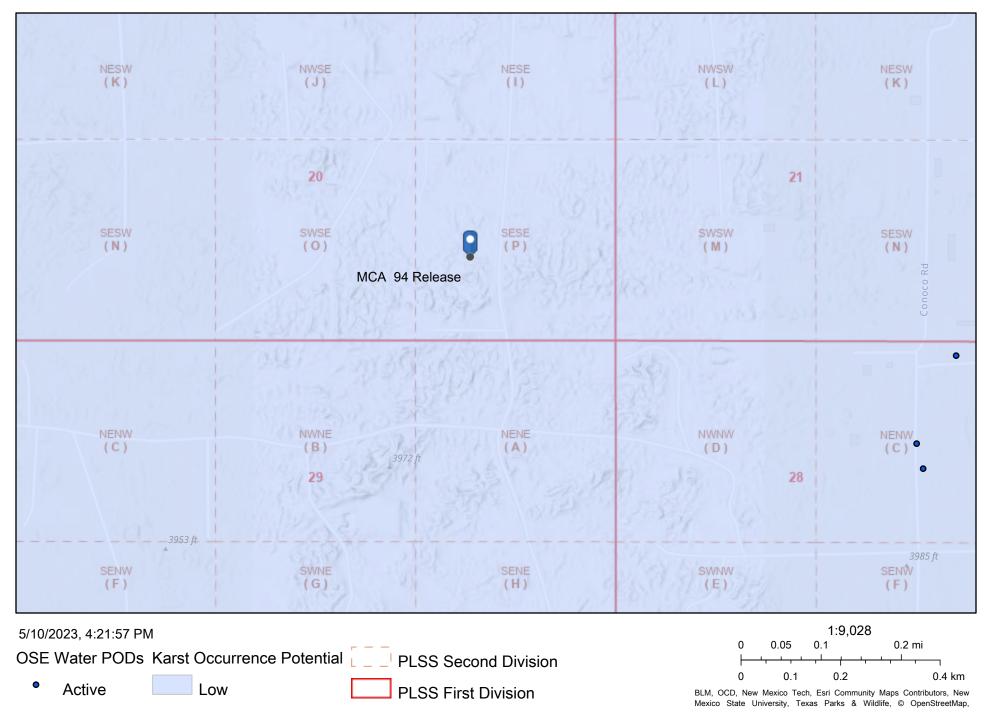
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled 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.

✓ A scaled site and sampling diagram as described in 19.15.29.	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	s of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODe	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rehuman health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regularestore, reclaim, and re-vegetate the impacted surface area to the coaccordance with 19.15.29.13 NMAC including notification to the Correct Name: Bryce Wagoner	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete.
Signature: Rywyr II	Date: 06/05/2023
email: Bryce.Wagoner@mavresources.com	Telephone: 928-241-1862
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.
Closure Approved by: Nelson Velez	Date: <u>08/28/2023</u>
Printed Name: Nelson Velez	Title: Environmental Specialist - Adv
_	

May 25, 2023

ATTACHMENT 2 – SITE CHARACTERIZATION DATA

MCA 94 Site Characterization





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

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INO	reco	ras	เมเ	MO.

UTMNAD83 Radius Search (in meters):

Easting (X): 613958 **Northing (Y):** 3631363 **Radius:** 800

Page 1 of 3

COCATION WAP	Maljamar, Texas		ELEVATION:	GROUND SUF			4003.98	 8							
ATION MAP	1/1/11-1		1		RFACE	(m <u>s!)∵</u>	4003.98	8	FIELD LOGGED BY: Anne Stewart ELEVATION: GROUND SURFACE (msl): 4003.98 (ft)						
ATION MAP	1 1/11/1		· — · · · · · · · · · · · · · · · · · ·												
ATION M	1	1111-17			GROUNDWATER ELEVATION (msl): 3998.9							(ft)			
АТЮ			DRILL TYPE:	ruck Mounted	Air Rote	ary	-								
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				msl=mean se	a level										
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	1 M W-1			SWL-Static V	/ater Le	vel									
•••	 .	WELL COMPLET	ION INFORMATIO					_ 							
Measuring P	oint Description (msl):	op of Casing		Casing: PVC											
Measuring P	oint Elevation (msl): 4	096.98		Diameter: 2											
	Level (feet below Top of Ca	esina): 3931.98		ze: 0.010 in											
		Intil Visibly Free of Sediment		40. <u>0.010 iii</u>				_							
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Well Cap.	LOOKING CEP														
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ELEVATION (msl) - ft SAMPLE INTERVAL/ID 1			nscs:	BLOW COUNT	Ž	-	% %	<u> </u>	'						
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2690015

NAXUM

EXPLORATORY BORING LOG | MW-14

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-	· · ·			GROUND SUR					(ft)	
AAP	1 MW-19				TER ELEVATION			<u>3998.9</u>	8 -	(ft)
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	<b>.</b>	WELL COMP	LETION INFO							
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Static Water	r Level (feet below Top of Cas	sing): 3931.98			ze: 0.010 in					
Well Develo	ppment: Water Extraction Ur	ntil Visibly Free of Sediment								
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2690015 EXPLORATORY BORING LOG MW-14

Page 3 of 3

1	AME <u>: Conoco Maljamar Ga:</u> Maljamar, Texas	s Plant	MONITORING FIELD LOGGE	D BY:	nne Ste				
		ELEVATION: 0						(ft)	
d <u>₹</u>	, MW-19	GROUNDWAT					8	(ft)	
LOCATION MAP			DRILL TYPE:T	ruck Mounted	Air Rota	ary			
[ <del>]</del>	j WW-12 M	W-13 - WW-15	BORE HOLE D	IAMETER:	6.25				(in
ò	: un'i un'èi	7 MW 4 1	DRILLED BY:	_					
1 -	MW.	9	DATE/TIME: H				/02		
	White Miles	7 14 16	DATE/TIME: C				)/02		
	71 11 22 /11/2 1	17 MW -5 W -9		bgs=Below G					
		1 MW 1-		ND=Not Dete					
}	, MW .20			msl=mean se	a level				
		A		FOG-First oc			oundwa	ter	
	HW-18			SWL-Static V	Vater Le	vel			
	<del>_</del>	WELL COMPLETION	ON INFORMATION					<u> </u>	
Measuring Po	int Description (msl):	p of Casing		Casing: PV					
Measuring Po	int Elevation (msl):40	06.98		Diameter: 2					
Static Water L	evel (feet below Top of Cas	sing); 3931.98	Slot Siz						
		til Visibly Free of Sediment							
Well Cap: L									
*			7	⊨	١.		) >-	RESULT (ppm)	
ELEVATION (msl) - ft SAMPLE TERVAL/ID #	COMPLETION	CLARGIFICATION	USCS SYMBOL	3LOW COUNT	₹		RECOVERY	<u>e</u>	
LEVATIC (msl) - ft (AMPLE	COMPLETION DIAGRAM	CLASSIFICATION	<del>∑</del>	ၓ	۱Ē	ш	Š	3	DEPTH
EN WEN	DIAGRAM	AND DESCRIPTION	ı S	Š	ANALYTICAL	HME.	)   jj	12	씸
ELEVATION (msl) - ft SAMPLE INTERVAL/ID#			ns	В	₹		%	<u></u>	
0.0	SAND PACK	Red to gray fine silty sarve moist.  Purplish-red sandy clay (shale); red bed.	sc sm					0.0	
35.0-									- '  -  -  -  -

NAMM

TABLE 1 Page 1 of 1

# WELL CONSTRUCTION DETAILS CONOCOPHILLIPS MALJAMAR GAS PLANT MALJAMAR, LEA COUNTY, NEW MEXICO

Monitoring	Location Coordinates**		Top of Casing	Depth			Screen	Screen	Casing	Well	
Well	Northing	Easting	Elevation	Total	Casing	Water	Condensate	Interval	Slot Size***		Installation
Number			(famsl)	(fbgs)	(fbgs)	(fbgs)	(fbgs)	(fbgs)	(inches)	(inches)	Date
EW-1	32.8165	-103.77452	4022.04	125	0-95	92.58		95-125	0.020	6	05/15/2007
Off-Site Wo	Off-Site Wells										
MW-11	32.81442	-103.77314	4015.54	120	0-98	83.46		98-118	0.010	2	12/04/2001
MW-12*	32.81646	-103.77455	4022.53	120	0-99	94.39		99-119	0.010	2	12/04/2001
MW-13	32.81547	-103.77128	4031.96	127	0-105	106.68		105-125	0.010	2	12/03/2001
MW-14	32.81436	-103.77603	4006.98	120	0-80	75.00		80-100	0.010	4	03/20/2002
MW-19	32.81796	-103.77289	4037.34	120	0-98	117.23		98-118	0.010	2	09/17/2002

Notes:

famsl = feet above mean sea level

fbgs = feet below ground surface

Blank Fields Indicate No Data

^{*} Wells re-surveyed for location and elevation of top of casing on 12/21/07

^{**} Section 21, T-17-S, R-32-E, New Mexico Principal Meridian

^{***} Schedule 40 PVC



## Table 1 Groundwater Elevation Summary Maljamar E&P Lea County, New Mexico

Well ID	Gauging Date	Well Total Depth (feet)	Depth to Water (feet BTOC)	Top of Casing Elevation (feet AMSL)	Groundwater Elevation (feet)
EW-1	10/4/2022	125	98.03	4,022.04	3,924.01
EW-2	10/4/2022	140	134.85	4,022.76	3,887.91
MW-11	10/4/2022	120	85.93	4,015.54	3,929.61
MW-12	10/4/2022	123	97.35	4,022.53	3,925.18
MW-13	10/4/2022	125	108.41	4,031.96	3,923.55
MW-14	10/4/2022	120	74.14	4,006.98	3,932.84
MW-19	10/4/2022	121	115.77	4,037.34	3,921.57

Notes:

BTOC: Below Top of Casing AMSL: Above Mean Sea Level

NG: Not gauged



### MAP LEGEND

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Water Features

Transportation

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Background

Spoil Area

Stony Spot

Wet Spot

Other

Rails

**US Routes** 

Major Roads

Local Roads

Very Stony Spot

Special Line Features

Streams and Canals

Interstate Highways

Aerial Photography

### Area of Interest (AOI)

Area of Interest (AOI)

### Soils

Soil Map Unit Polygons



Soil Map Unit Points

### Special Point Features

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill

Lava Flow

▲ Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

## MAP INFORMATION

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

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

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

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

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

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

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

Soil Survey Area: Lea County, New Mexico Survey Area Data: Version 19, Sep 8, 2022

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

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

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

# **Map Unit Legend**

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
КМ	Kermit soils and Dune land, 0 to 12 percent slopes	6.2	100.0%
Totals for Area of Interest		6.2	100.0%

### Lea County, New Mexico

### KM—Kermit soils and Dune land, 0 to 12 percent slopes

### **Map Unit Setting**

National map unit symbol: dmpx Elevation: 3,000 to 4,400 feet

Mean annual precipitation: 10 to 15 inches Mean annual air temperature: 60 to 62 degrees F

Frost-free period: 190 to 205 days

Farmland classification: Not prime farmland

### **Map Unit Composition**

Kermit and similar soils: 46 percent

Dune land: 44 percent

Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

### **Description of Kermit**

### Setting

Landform: Dunes

Landform position (two-dimensional): Shoulder, backslope,

footslope

Landform position (three-dimensional): Side slope Down-slope shape: Convex, linear, concave

Across-slope shape: Convex

Parent material: Calcareous sandy eolian deposits derived from

sedimentary rock

### **Typical profile**

A - 0 to 8 inches: fine sand C - 8 to 60 inches: fine sand

### **Properties and qualities**

Slope: 5 to 12 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Excessively drained

Runoff class: Very low

Capacity of the most limiting layer to transmit water (Ksat): Very

high (20.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 3 percent

Gypsum, maximum content: 1 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Low (about 3.1 inches)

### Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: A

Ecological site: R070BC022NM - Sandhills

Hydric soil rating: No

### **Description of Dune Land**

### Setting

Landform: Dunes

Landform position (two-dimensional): Shoulder, backslope,

footslope

Landform position (three-dimensional): Side slope

Down-slope shape: Convex, linear, concave

Across-slope shape: Convex

Parent material: Sandy eolian deposits derived from sedimentary

rock

### Typical profile

A - 0 to 6 inches: fine sand C - 6 to 60 inches: fine sand

### Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8

Hydrologic Soil Group: A Hydric soil rating: No

### **Minor Components**

### **Palomas**

Percent of map unit: 3 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

### **Pyote**

Percent of map unit: 3 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

### Wink

Percent of map unit: 2 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

### Maljamar

Percent of map unit: 2 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

## **Data Source Information**

Soil Survey Area: Lea County, New Mexico Survey Area Data: Version 19, Sep 8, 2022 Remediation and Closure Report Maverick Permian, LLC MCA 94 Flowline Release Incident ID: nAPP2212531906 May 25, 2023

# **ATTACHMENT 3 – LABORATORY ANALYTICAL DATA**



May 09, 2023

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

RE: MCA 94

Enclosed are the results of analyses for samples received by the laboratory on 05/08/23 16:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at <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. Keene

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



TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 05/08/2023 Sampling Date: 05/01/2023

Reported: 05/09/2023 Sampling Type: Soil

Project Name: MCA 94 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03098 Sample Received By: Tamara Oldaker

Project Location: MAVERICK - LEA CO NM

Sample ID: FS - 1 (H232273-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/09/2023	ND	416	104	400	3.92	

### Sample ID: FS - 2 (H232273-02)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/09/2023	ND	416	104	400	3.92	

### Sample ID: FS - 3 (H232273-03)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/09/2023	ND	416	104	400	3.92	

### Sample ID: FS - 4 (H232273-04)

Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/09/2023	ND	416	104	400	3.92	

Cardinal Laboratories *=Accredited Analyte

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TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET , STE  $100\,$ 

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 05/08/2023 Sampling Date: 05/08/2023

Reported: 05/09/2023 Sampling Type: Soil

Project Name: MCA 94 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03098 Sample Received By: Tamara Oldaker

Project Location: MAVERICK - LEA CO NM

### Sample ID: FS - 5 (H232273-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/09/2023	ND	416	104	400	3.92	
Sample ID: FS - 6 (H2322	273-06)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	05/09/2023	ND	416	104	400	3.92	
Sample ID: FS - 7 (H2322	273-07)								
Chloride, SM4500CI-B	mg	mg/kg Analyzed By: GM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	05/09/2023	ND	416	104	400	3.92	
Sample ID: FS - 8 (H2322	273-08)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/09/2023	ND	416	104	400	3.92	
Sample ID: FS - 9 (H2322	273-09)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/09/2023	ND	416	104	400	3.92	

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**TETRA TECH CHUCK TERHUNE** 

901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 05/08/2023 Sampling Date: 05/08/2023

Reported: 05/09/2023 Sampling Type: Soil

Project Name: MCA 94 Sampling Condition: Cool & Intact Project Number: Sample Received By: 212C - MD - 03098 Tamara Oldaker

Project Location: MAVERICK - LEA CO NM

Chloride, SM4500CI-B	mg/kg		Analyze	Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	05/09/2023	ND	416	104	400	3.92	
Sample ID: FS - 11 (H23	2273-11)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	05/09/2023	ND	416	104	400	0.00	
Sample ID: FS - 12 (H23	2273-12)								

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	05/09/2023	ND	416	104	400	0.00	

### Sample ID: FS - 13 (H232273-13)

Chloride, SM4500Cl-B mg/kg			Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/09/2023	ND	416	104	400	0.00	

### Sample ID: FS - 14 (H232273-14)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/09/2023	ND	416	104	400	0.00	

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TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 05/08/2023 Sampling Date: 05/08/2023

Reported: 05/09/2023 Sampling Type: Soil

Project Name: MCA 94 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03098 Sample Received By: Tamara Oldaker

Project Location: MAVERICK - LEA CO NM

### Sample ID: FS - 15 (H232273-15)

Chloride, SM4500Cl-B	mg	mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1390	16.0	05/09/2023	ND	416	104	400	0.00	
Sample ID: FS - 16 (H232	•	/ka	<b>Ab</b>	od Byr GM					

Chloride, SM4500Cl-B	mg/	кд	Analyze	а ву: СМ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1390	16.0	05/09/2023	ND	416	104	400	0.00	

### Sample ID: FS - 17 (H232273-17)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1420	16.0	05/09/2023	ND	416	104	400	0.00	

### Sample ID: FS - 18 (H232273-18)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	05/09/2023	ND	416	104	400	0.00	

### Sample ID: FS - 19 (H232273-19)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	05/09/2023	ND	416	104	400	0.00	

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**TETRA TECH CHUCK TERHUNE** 

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 05/08/2023 Sampling Date: 05/08/2023

Reported: 05/09/2023 Sampling Type: Soil

Project Name: MCA 94 Sampling Condition: Cool & Intact Sample Received By: Project Number: 212C - MD - 03098 Tamara Oldaker

Project Location: MAVERICK - LEA CO NM

### Sample ID: FS - 20 (H232273-20)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	05/09/2023	ND	416	104	400	0.00	
Sample ID: FS - 21 (H232	273-21)								

Cilioride, SPI4500CI-B	ilig/	ky	Allalyzeu by. GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	05/09/2023	ND	416	104	400	0.00	

### Sample ID: FS - 22 (H232273-22)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1330	16.0	05/09/2023	ND	416	104	400	0.00	

### Sample ID: FS - 23 (H232273-23)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1340	16.0	05/09/2023	ND	416	104	400	0.00	

### Sample ID: SW - 1 (H232273-24)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/09/2023	ND	416	104	400	0.00	

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Celeg D. Keene



TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET , STE  $100\,$ 

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 05/08/2023 Sampling Date: 05/01/2023

Reported: 05/09/2023 Sampling Type: Soil

Project Name: MCA 94 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03098 Sample Received By: Tamara Oldaker

Project Location: MAVERICK - LEA CO NM

### Sample ID: SW - 2 (H232273-25)

mg	/kg	Analyze	d By: GM					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
128	16.0	05/09/2023	ND	416	104	400	0.00	
<b>/3-26)</b>								
mg	/kg	Analyze	d By: GM					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
128	16.0	05/09/2023	ND	416	104	400	0.00	
/3-27 <b>)</b>								
-	/kg	Analyze	d By: GM					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
144	16.0	05/09/2023	ND	416	104	400	0.00	
<b>'3-28</b> )								
mg	/kg	Analyze	d By: GM					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
128	16.0	05/09/2023	ND	416	104	400	0.00	
<b>'3-29</b> )								
mg	/kg	Analyze	d By: GM					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	Result 128 23-26) mg Result 128 23-27) mg Result 144 23-28) mg Result 128 23-29) mg	mg/kg         Result Reporting Limit         128       16.0         Result Reporting Limit         128       16.0         Gazen         Result Reporting Limit         144       16.0         Gazen         Result Reporting Limit         128       16.0         Gazen         Gazen         mg/kg	mg/kg         Analyze           Result         Reporting Limit         Analyze           73-26)         mg/kg         Analyze           Result         Reporting Limit         Analyze           73-27)         Analyze         Analyze           Result         Reporting Limit         Analyze           144         16.0         05/09/2023           73-28)         Mg/kg         Analyze           Result         Reporting Limit         Analyze           Result         Reporting Limit         Analyze           128         16.0         05/09/2023           73-29)         Mg/kg         Analyze	Result         Reporting Limit         Analyzed         Method Blank           128         16.0         05/09/2023         ND           3-26)         mg/kg         Analyzed By: GM           Result         Reporting Limit         Analyzed By: GM           3-27)         mg/kg         Analyzed By: GM           Result         Reporting Limit         Analyzed By: GM           3-28)         mg/kg         Analyzed By: GM           Result         Reporting Limit         Analyzed By: GM           Result         Reporting Limit         Analyzed By: GM           3-29)         mg/kg         Analyzed By: GM	mg/kg       Analyzed By: GM         Result       Reporting Limit       Analyzed       Method Blank       BS         128       16.0       05/09/2023       ND       416         Result       Reporting Limit       Analyzed By: GM         Result       Reporting Limit       Analyzed By: GM         Result       Reporting Limit       Analyzed By: GM         (3-28)       Mg/kg       Analyzed By: GM         (3-28)       Mg/kg       Analyzed By: GM         (3-29)       Mg/kg       Analyzed By: GM	Result   Reporting Limit   Analyzed   Method Blank   BS   % Recovery	Result   Reporting Limit   Analyzed   Method Blank   BS   % Recovery   True Value QC	Result   Reporting Limit   Analyzed   Method Blank   BS   % Recovery   True Value QC   RPD

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TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET , STE  $100\,$ 

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 05/08/2023 Sampling Date: 05/08/2023

Reported: 05/09/2023 Sampling Type: Soil

Project Name: MCA 94 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03098 Sample Received By: Tamara Oldaker

Project Location: MAVERICK - LEA CO NM

### Sample ID: SW - 7 (H232273-30)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/09/2023	ND	416	104	400	0.00	
Sample ID: SW - 8 (H232	273-31)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/09/2023	ND	416	104	400	0.00	
Sample ID: SW - 9 (H232	273-32)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/09/2023	ND	416	104	400	0.00	
Sample ID: SW - 10 (H23	2273-33)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/09/2023	ND	416	104	400	0.00	
Sample ID: SW - 11 (H23	2273-34)								
Chloride, SM4500Cl-B	-	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/09/2023	ND	416	104	400	0.00	

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MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 05/08/2023 Sampling Date: 05/08/2023

Reported: 05/09/2023 Sampling Type: Soil

Project Name: MCA 94 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03098 Sample Received By: Tamara Oldaker

Project Location: MAVERICK - LEA CO NM

### Sample ID: SW - 12 (H232273-35)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/09/2023	ND	416	104	400	0.00	
Sample ID: SW - 13 (H232273	3-36)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/09/2023	ND	416	104	400	0.00	
Sample ID: SW - 14 (H23227)	3-37)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/09/2023	ND	416	104	400	0.00	
Sample ID: SW - 15 (H23227)	3-38)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/09/2023	ND	416	104	400	0.00	
Sample ID: SW - 16 (H23227)	3-39)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/09/2023	ND	416	104	400	0.00	

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MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 05/08/2023 Sampling Date: 05/08/2023

Reported: 05/09/2023 Sampling Type: Soil

Project Name: MCA 94 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03098 Sample Received By: Tamara Oldaker

Project Location: MAVERICK - LEA CO NM

### Sample ID: SW - 17 (H232273-40)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/09/2023	ND	416	104	400	0.00	
Sample ID: SW - 18 (H23	2273-41)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/09/2023	ND	416	104	400	0.00	
Sample ID: SW - 19 (H23	2273-42)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/09/2023	ND	416	104	400	0.00	
Sample ID: SW - 20 (H23	2273-43)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/09/2023	ND	416	104	400	0.00	
Sample ID: SW - 21 (H23	2273-44)								
Chloride, SM4500Cl-B	-	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/09/2023	ND	416	104	400	0.00	

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901 WEST WALL STREET , STE  $100\,$ 

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 05/08/2023 Sampling Date: 05/08/2023

Reported: 05/09/2023 Sampling Type: Soil

Project Name: MCA 94 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03098 Sample Received By: Tamara Oldaker

Project Location: MAVERICK - LEA CO NM

### Sample ID: SW - 22 (H232273-45)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/09/2023	ND	416	104	400	0.00	

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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



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

# Chuck. Terhone@ tetratech.com

				-					
Company Name.	letra	lech		BILL TO	•		ANALYSIS RE	REQUEST	
Project Manager:	" Chuck	Terhone		P.O. #:			- 1		1
Address: 1500	City	West Blud St	Stc. 100	Company: Tetro	Tech				`
City: Houston	ОИ	State: T	X Zip: 770421	Attn: Chuck Te	Terhone				
Phone #: 281	Phone #: 281-755-8965	65 Fax #:		1 1		_			
Project #: 212C-MD	C-MD-030	-03098 Project Owner:	ner: Mayerick	City:		_			_
Project Name: MCA				State: Zip:		3			
Project Location:	Lea	County, New	Mexico	#		116			
Sampler Name:				Fax #:		02			
FOR LAB USE ONLY			MATRIX	SERV		3			
			RS TER R		80	ride			
Lab I.D. #232273	Samp	Sample I.D.	(G)RAB OR (C # CONTAINER GROUNDWAT WASTEWATE SOIL DIL	SLUDGE OTHER: ACID/BASE: CE / COOL COTHER:	TPH	Chlor			
_	FS-1		- ×	×	200	X		-	1
ع	FS-2		-	- 1	1020				1
C	F5-3			4	1025				
1	FS-4			518123					
0	1000				11/0				
16	900			<	1115				
Q.	77-0			511123	1030				
00	F5-0			5/1/23	1035				
6	10-1			5/8/23	1120				
PLEASE NOTE: Liability and Dam	Damages, Cardinal's liability a	and client's exclusive remedy for	ges. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or lost shall be from	V 5/8/23 1125	1125	<			
analyses. All claims including service. In no event shall Card affiliates or successors arising	including those for negligence and any or shall Cardinal be Bable for incidental or or safeing out of or related to the perform	rother cause whatsoever shall be consequental damages, includi mance of services hereunder by	analyses. All claims including those for negligence and any other cause whatboewer shall be deemed walved unless made in writing and received by Cardinal within 30 days filter compeletor of the applicable service, in no event shall Cardinal be lable for incidental or consequental 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	nd received by Cerdinal within 30 days after , loss of use, or loss of profits incurred by clin to based upon any of the above stated rea	on to we sincom paid by the clean for the lail within 30 days after completion of the applicable of profile incurred by client, its subsidiaries, if the above stated reasons or otherwise.				
Rad	Mad	Time: 1547 (	Received By:		Verbal Result:   All Results are emaile	☐ Yes ☐ No Add'I Phone #: nailed. Please provide Email address:	Add'I Phone #: de Email address:		
Neilliquisned by:		Date: 873	Received By:		REMARKS:				
Delivered By: (Circle One)	le One)	Observed Temp, °C	6.5	CHECKED BY:	Turnaround Time:	Standard	Bacteria (only)	Bacteria (only) Sample Condition	
Sampler - UPS - Bus - Other	ıs - Other:	Corrected Temp. °CS. 3	S. 3 Pyes Pyes	4 minds	Thermometer ID #113 Correction Factor -0.6°C	Nusn		Observed Temp. °C	
THE PARTY OF THE P			1		A A'A. IONA I HAMANIA		- No.	2	



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

Chuck. Terhone@ tetratech.com

Company Name	,			-								
Company manie.	icera lech			BILL TO	0			AN	ANALYSIS RE	REQUEST		_
Project Manager:	Chuck Terhone	one		P.O. #:	,	$\dashv$		$\dashv$				_
Address:  500	City West 1	Blud ste.	100	Company: Tetro	Tech	_					-	
city: Houston		State: TX Zi	X Zip: 770421	Attn: Chuck T	(0)	_		_		_		
Phone #: 281-	Phone #: 281-755-8965 F	Fax #:						_		_		
Project #: 212C-MD	MD-03098 Project Owner:		Mayerick	City:								
Project Name: MCA	CA 94			State: Zip:			_					_
Project Location:	Lea County,	New	Mexico	Phone #:	10							
Sampler Name:	0			Fax #:			02					
FOR LAB USE ONLY			MATRIX	ESERV.	SAMPLING	0	e	_				
Lab I.D.	Sample I.D.	RAB OR (C)OMP	ONTAINERS OUNDWATER STEWATER	ER:  D/BASE:  COOL  ER:	rou o	FPH 8	hlorid					7
11	F3-11	00	- # G V X s	A XIC	3 1130	+	X	†	1	+	+	_
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C	F5-13			5/1/23	_							
14	F5-14			=	Shol							
15	F5-15			5/8/23	1							_
ie	FS-16				1145							
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20	FS-20	<	4	< -	1205	1	1	Ť				1
LEASE NOTE: Liability and Damy nalyses. All claims including those nalyses, in no event shall Cardinal b filliates or successors arising out of	ages. Cardinal's liability and cli- r for negligence and any other se liable for incidental or conse for related to the performance	xclusive remedy for any clain whatsoever shall be deemed at damages, including without vices hereunder by Cardinal.	ent's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the armo- cause whatbower shall be deemed waived unless made in writing and received by Cardinal within 30 de quental damages, including without illmitation, business interruptions, loss of use, or loss of profits incurv of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above six	tort, shall be limited to the amount societed by Cardinal within 30 days a sof use, or loss of profits incurred to based upon any of the above stated	unt paid by the client for the ys after completion of the appli- ed by client, its subsidiaries, ated reasons or otherwise.	cable		ı				_
the L	The same of the sa	Time: 1547	Received By:		Verbal Result: ☐ Yes ☐ No Add'I Phone #: All Results are emailed. Please provide Email address:	☐ Yes emailed. F	es ☐ No I. Please prov	Add'l	Add'l Phone #: de Email address:			
Relinquished By:		6	Received By:	The	REMARKS:			-				
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C 5.3	Sample Condition Cool Intact A Yes A Yes No No	CHECKED BY:	Turnaround Time: Thermometer ID #113 Correction Factor -0.8°C	#113 -0.6°C	Standard Rush	XD	Bacteria (only) Sample Condition Cool Intact Observed Temp.    Yes   Yes	Sample Condition Observed Temp. °C	p. °C	
Andread State of the State of t	-			1.	Indirection Lactor	0.0			I NIC I NIC	Commend Tom	2	1



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

Chock. Terhone@ tetratech.com

		*				
company Name: Tetra Tech		BILL TO		AN	ANALYSIS REQUEST	UEST
	erhone	P.O. #:				
Nest	Blvd ste. 100	Company: Tetra Ti	ech			
city: Houston	State: TX Zip: 770H2	uck Ter	erhune	_		_
Phone #: 281-755-8965						
Project #: 212C - MD -03098 Project Owner:	Mayerick	City:				
Project Name: MCA 94		State: Zip:		<u> </u>		
Project Location: Lea County,	New Mexico	Phone #:		21		
Sampler Name:		Fax #:		0.		
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	01	3		
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	P.	TPH 8	Chloride		,
al F5-21	- ×	X 5/8/23	012	X		
			1215	-		
30 15-23		<del>\</del>	1220			
		5/1/23	050			
		=	1065			
		5/8/23 1	1300			
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S.M.S.			1310			
			1315			
LEASE NOTE: Liability and Damages. Cardinal's liability and citent's	SW - 7  Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or bot, shall be limited to the arm	ort, shall be limited to the amount paid by	1320	A		
alyses. All claims including those for negligance and any other cau vice. In no event shall Cardinal be liable for incidental or conseque flates or successors arising out of or related to the performance of	alyses. All claims including those for negligence and any other cause whatsoewer shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable race. 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, lifeties or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	the desired by Cardinal within 30 days after core of use, or loss of profits incurred by client of use, or loss of profits incurred by client of use, or loss of profits incurred by client of use, or loss of profits incurred by client of use or loss of the above stated reason	ys after completion of the applicable of by client, its subsidiaries, ted reasons or otherwise.			
Marie DA.	Time:  5/8/23		Verbal Result:   All Results are emaile	Verbal Result: ☐ Yes ☐ No ☐ Add'l Phone #: All Results are emailed. Please provide Email address:	Add'I Phone #: ide Email address:	
	Received By:	RI RI	REMARKS:			
Delivered By: (Circle One) Obse	bu	CHECKED BY: Tu	Turnaround Time:	Standard	co	ample Condition Observed Temp. °C
	Corrected Temp. °C S. S. Ayes Ayes		Thermometer ID #113 Correction Factor -0.6°C		□Yes □ Yes	



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

Chuck. Terhone@ totratech.com

Company Name:	,		DI 1 110					
Project Manager	10		DILL IO		AN	ANALYSIS KEQUESI	JESI .	1
Address: 1500	West Did	600	Company	1	_		,	_
	State:	TX Zip: 770H21	Attn: Church To	ex hone		_		_
Phone #: 281-	Phone #: 281- 755-8965 Fax #:		SS:			_		_
Project #: 212C	Project #: 212C - MD -03098 Project Owner:	mer: Mayerick	City:				_	
Project Name: MCA	CA 94		State: Zip:		<i>B</i>	_		
Project Location:	Lea County, Neu	New Mexico	Phone #:		21			_
Sampler Name:			Fax #:		0.			
FOR LAB USE ONLY		MATRIX	PRESERV. SAN	SAMPLING	le		К	
Lab I.D. # <i>a3a273</i>	Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE/COOL OTHER:	TPH 8	Chlorid			101
3/	8-WS	- ×	×	1100	X			1
32	P-WS			1105	_			
300	SW-10		<	1110				
the state of the s	5W-11		5/8/123	3 1325				
200	21-MS			1330				
36	SW-13			1335				
idi	PH-MS			1340				
NO X	SW-IS			1345				
90	91-MS			1350				
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.EASE NOTE: Liability and Dan lelyses; All claims including thos rvice. In no event shall Cardinal filiates or successors arising out	EASE NOTE: Liability and Damages. Cerdinat'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 abyess. All claims including those for negligance and any other cause whatosover shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable riscs. In no event shall Cardinal be fable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiantes, the statement of the above stated reasons or otherwise.	for any claim arising whether based in contract of the deemed waived unless made in writing and uting without limitation, business interruptions, lo by Cardinal, repardless of whether such claim is	or tort, shall be limited to the amount pa I received by Cardinal within 30 days afte oss of use, or loss of profits incurred by Is based upon any of the above stated to	unt paid by the client for the ys after completion of the applicable ed by client, its subsidiaries, and reasons or otherwise.				l
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101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Chock. Terhone@ tetratech.com

Company Name: Total		BILL TO		
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FORM-006 N 3-3 07/16/22	H	Y ,	Correction Factor -0.6°C	☐ No ☐ No Corrected Temp. °C

Remediation and Closure Report Maverick Permian, LLC MCA 94 Flowline Release Incident ID: nAPP2212531906 May 25, 2023

# ATTACHMENT 4 – PHOTOGRAPHIC DOCUMENTATION



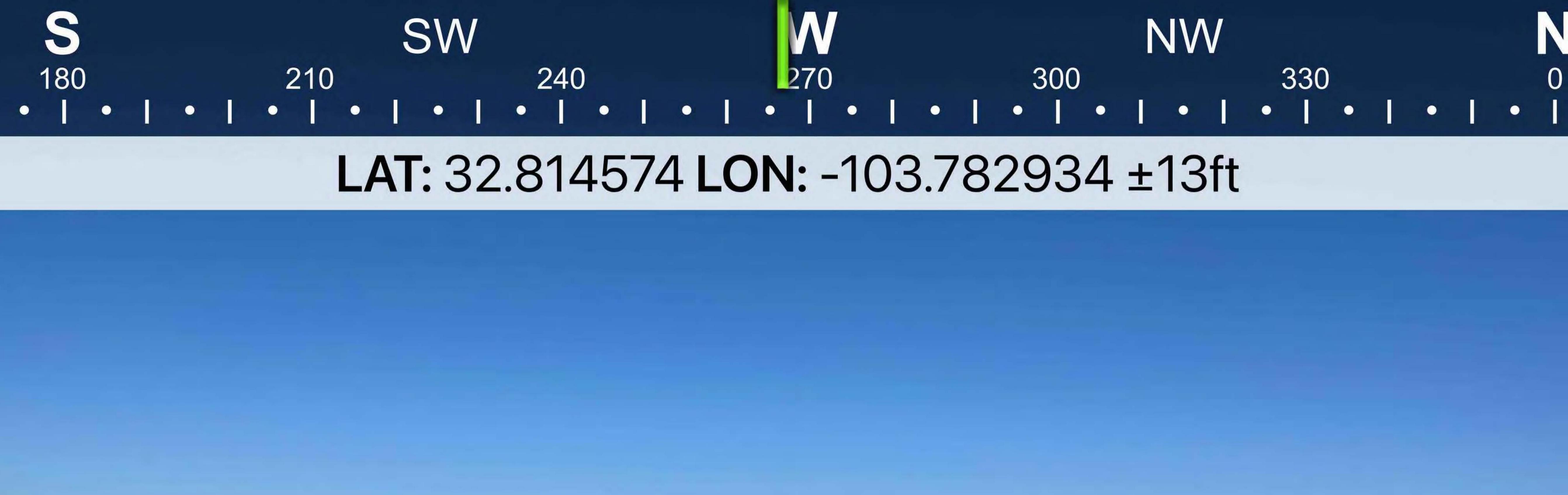




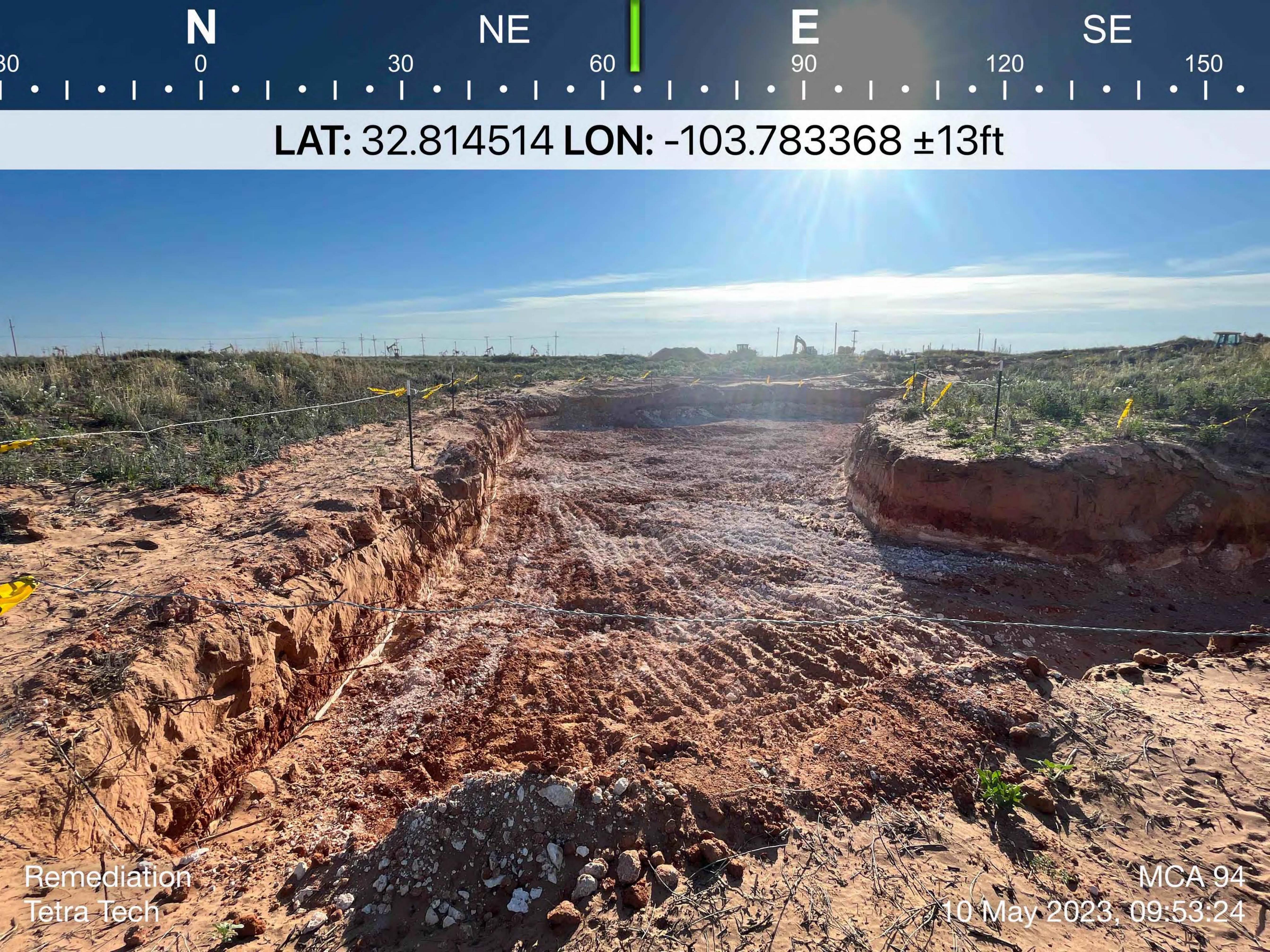


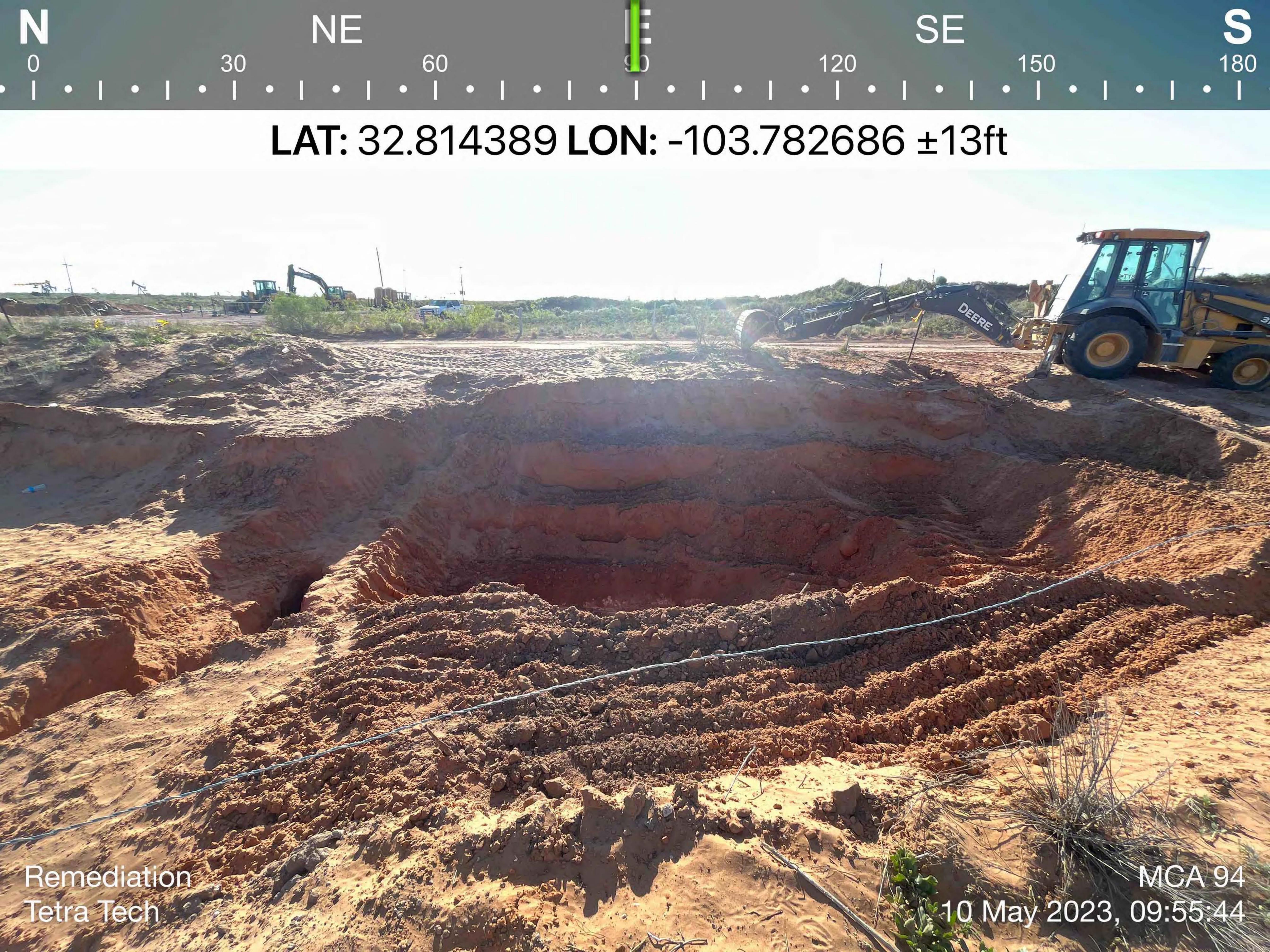
LAT: 32.814598 LON: -103.782614 ±13ft

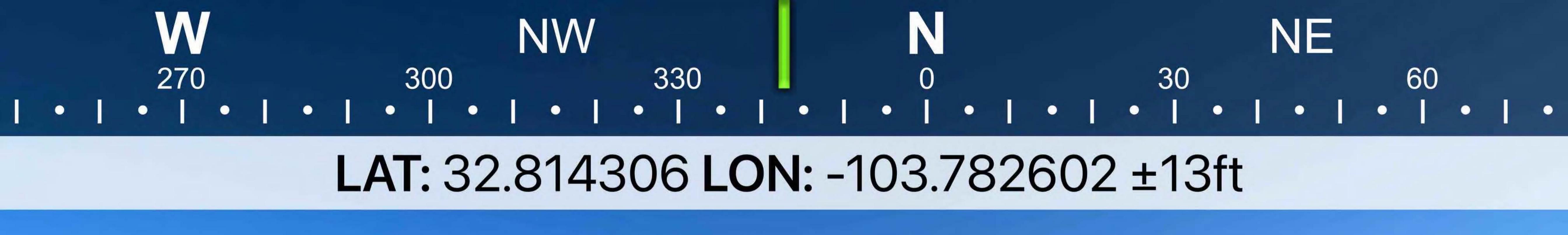




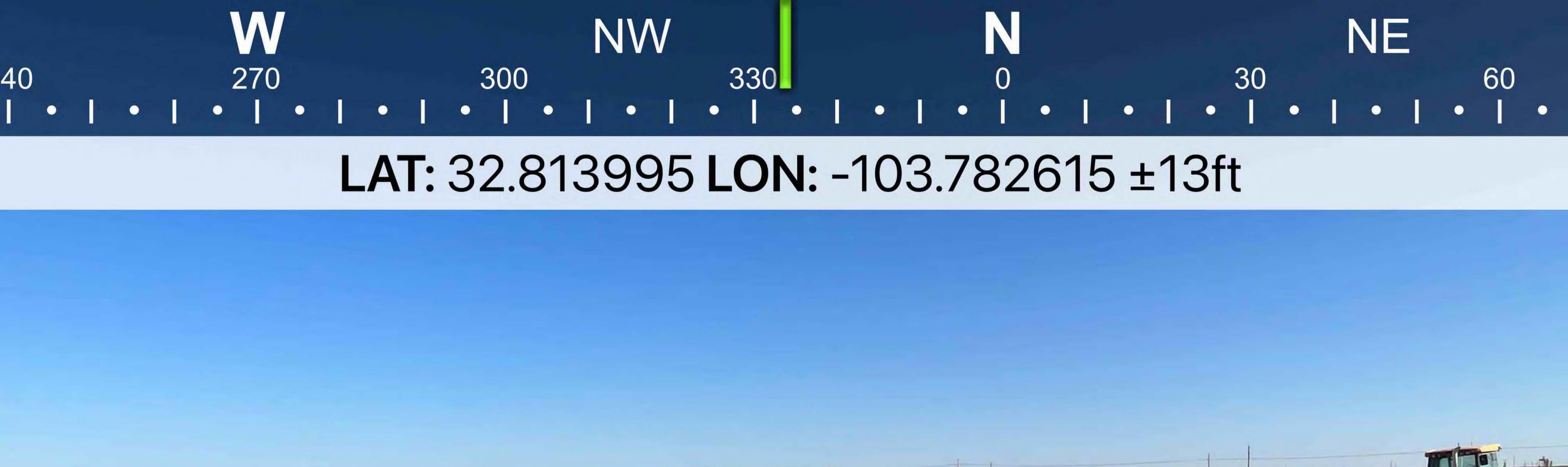




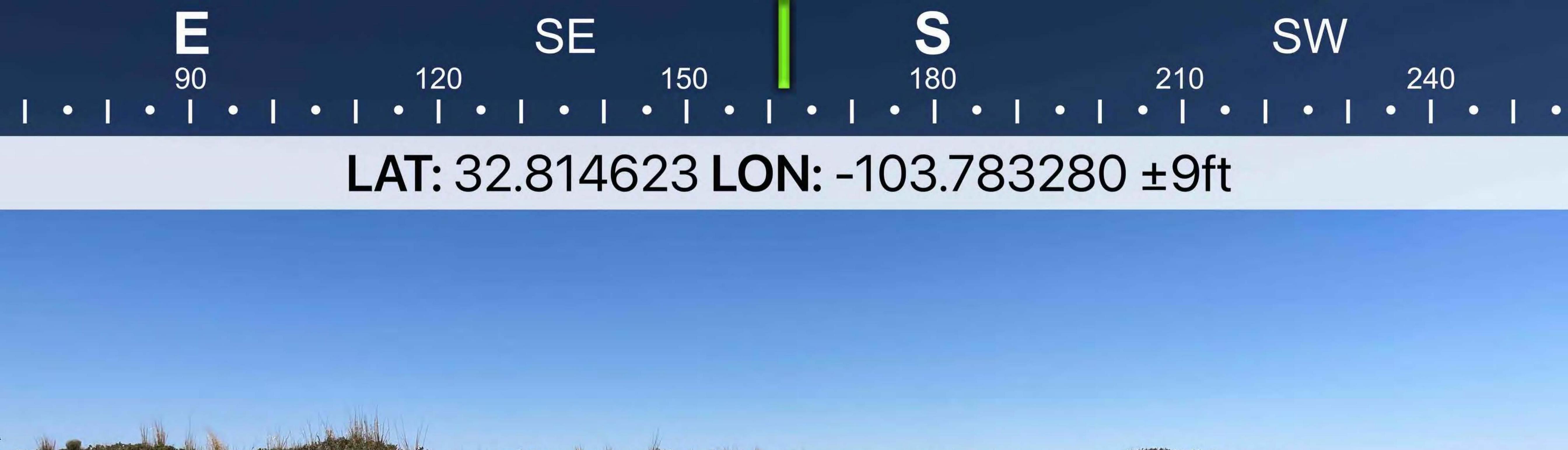










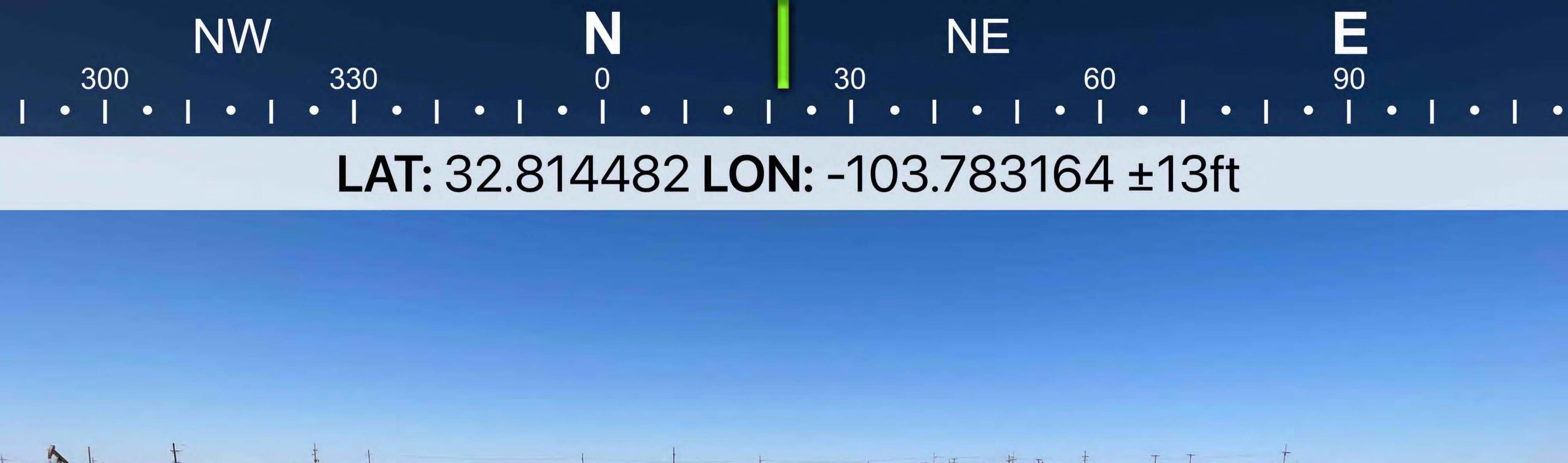


1 May 2023, 16:49:38

















LAT: 32.814404 LON: -103.782592 ±13ft



Remediation and Closure Report Maverick Permian, LLC MCA 94 Flowline Release Incident ID: nAPP2212531906 May 25, 2023

## **ATTACHMENT 5 – NMSLO SEED MIXTURE DETAILS**

### **SANDY (S) SITES SEED MIXTURE:**

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
Grasses:			
Sand bluestem	Elida, VNS, So.	2.0	${f F}$
Little bluestem	Cimarron, Pastura	3.0	${f F}$
Black grama	VNS, Southern	1.0	D
Sand dropseed	VNS, Southern	4.0	$\mathbf{S}$
Plains bristlegrass	VNS, Southern	2.0	D
Forbs:			3
Firewheel (Gaillardia)	VNS, Southern	1.0	<b>D</b> D
Annual Sunflower	VNS, Southern	1.0	D
		9	B
Shrubs:			B
Fourwing Saltbush	VNS, Southern	1.0	F
	Total PLS/ac	ere 16.0	8

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 <a href="http://plants.usda.gov">http://plants.usda.gov</a>.



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