TETRA TECH

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

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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:

Closure Criteria for Soils Impacted by a Release

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

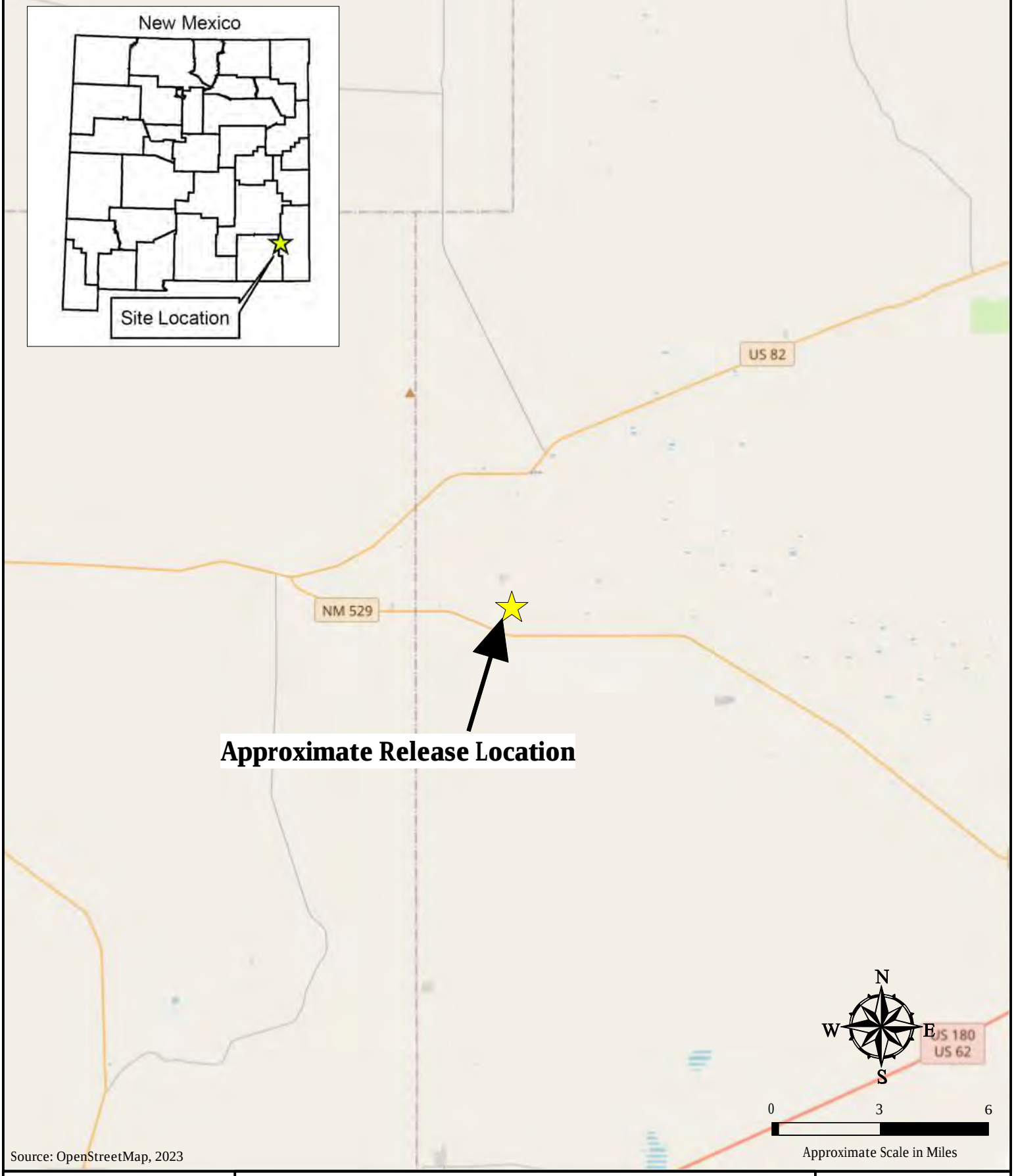
Tables

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

Attachments

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

FIGURES



Source: OpenStreetMap, 2023

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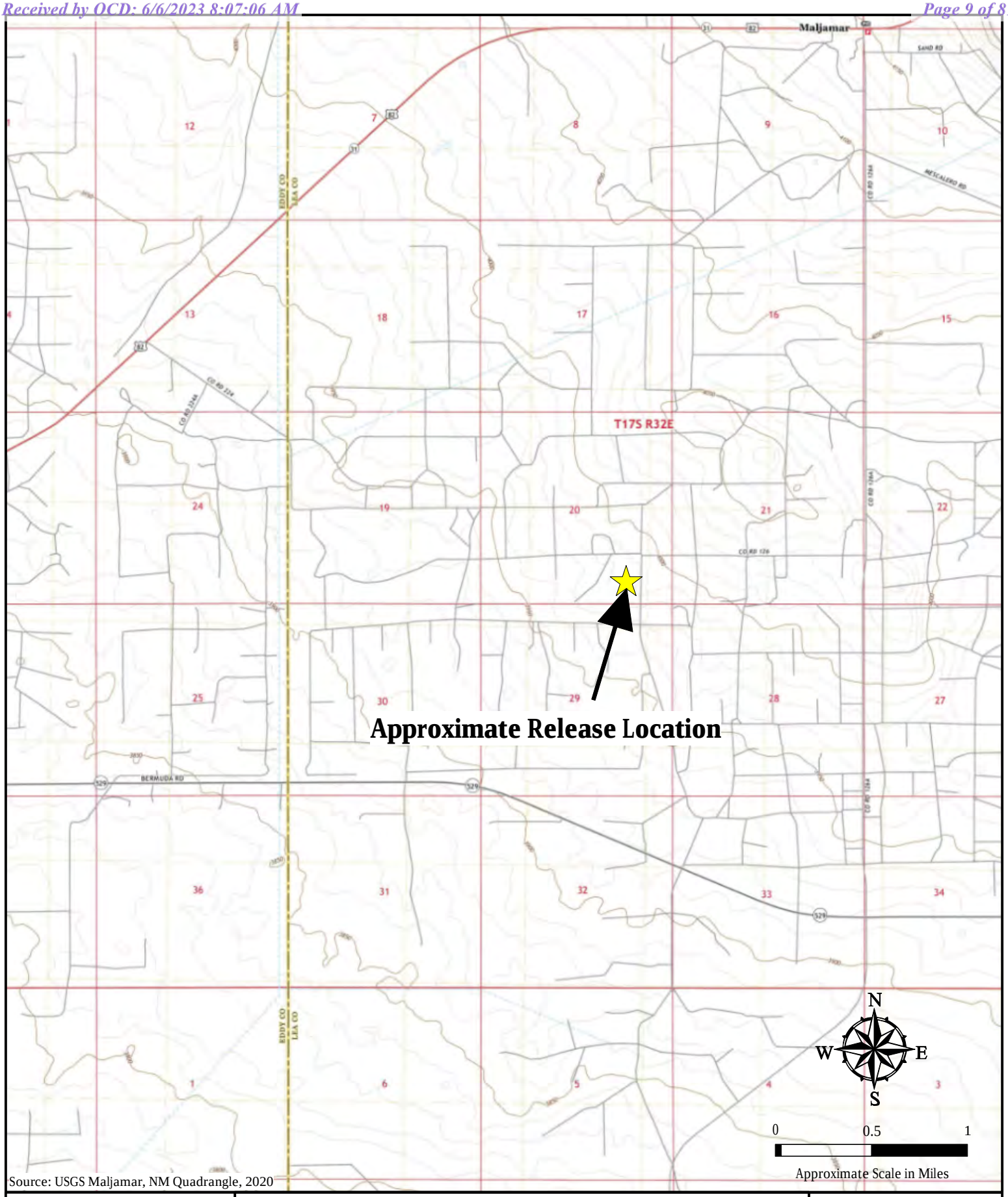
MAVERICK PERMIAN, LLC
NAPP2212531906
32.81441°, -103.783172°
LEA COUNTY, NEW MEXICO
MCA 94 FLOWLINE RELEASE
OVERVIEW MAP

PROJECT NO:	212C-MD-03098
DATE:	05/23/2023
DESIGNED BY:	CHT

Figure 1



Source: USGS Maljamar, NM Quadrangle, 2020

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TOPOGRAPHIC

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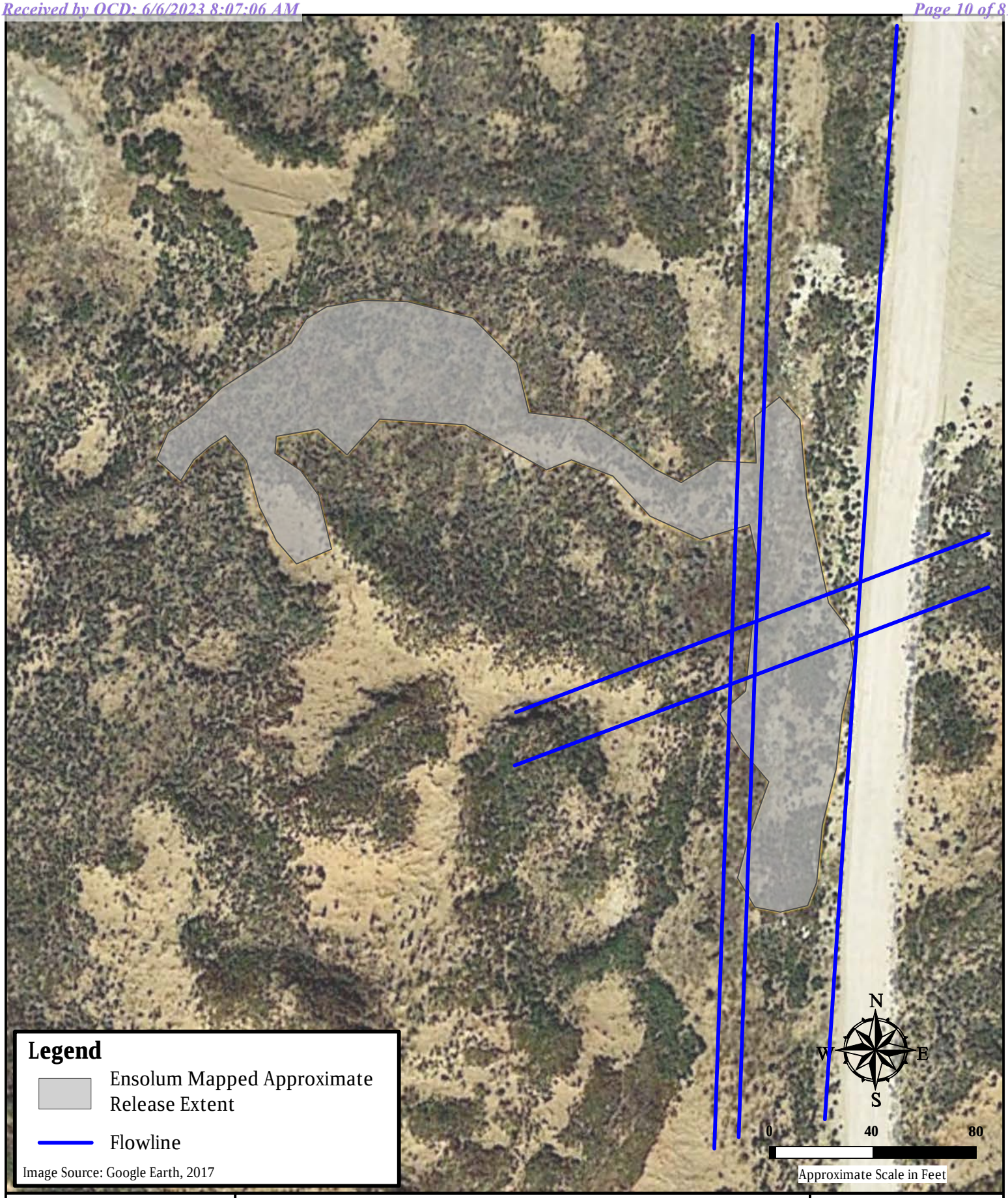
Figure 2



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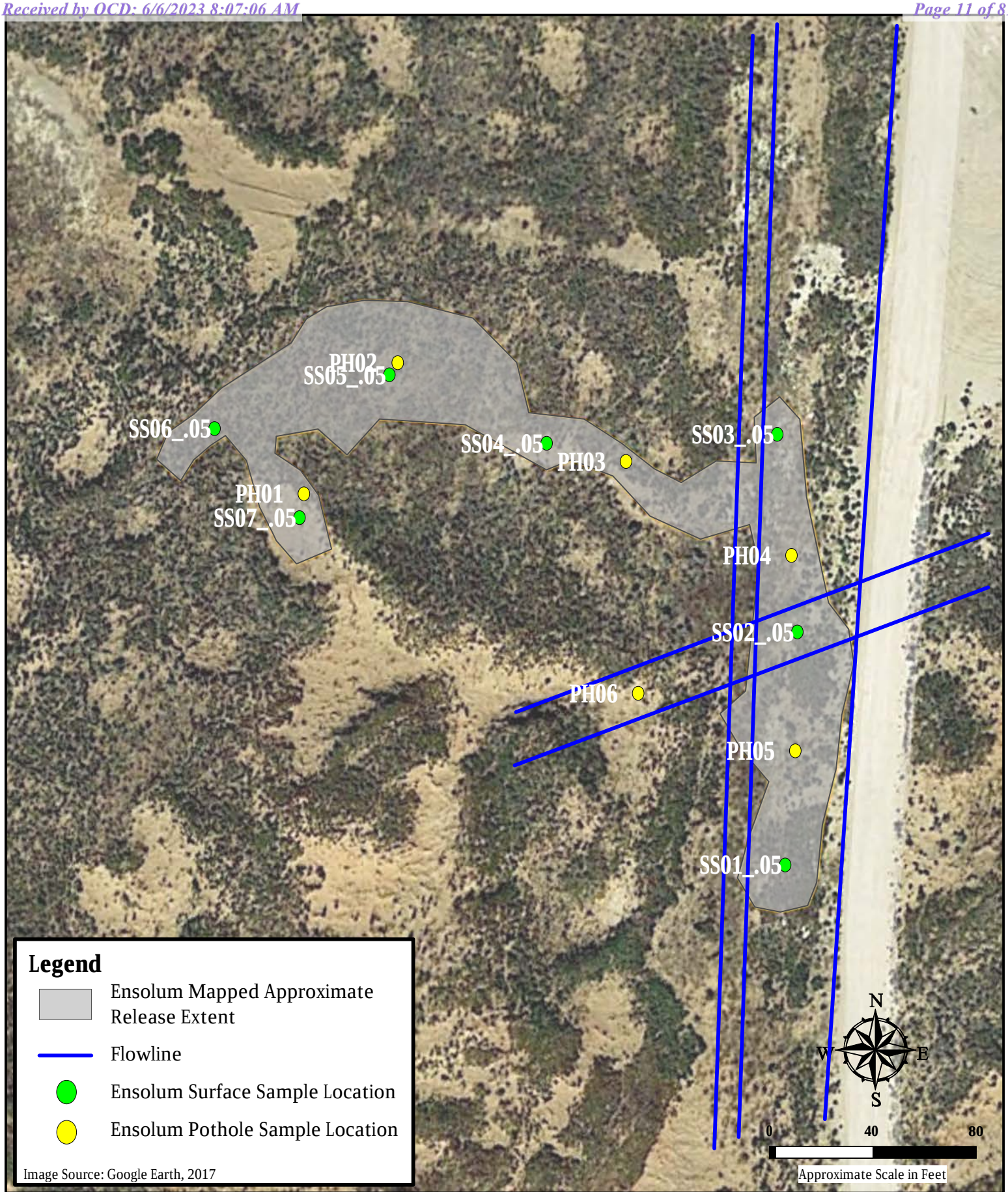
MCA 94 FLOWLINE RELEASE
APPROXIMATE RELEASE EXTENT AND SITE FEATURES

PROJECT NO:	212C-MD-03098
DATE:	05/23/2023
DESIGNED BY:	CHT

Figure 3



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MCA 94 FLOWLINE RELEASE
ENSOLUM SITE ASSESSMENT LOCATION MAP

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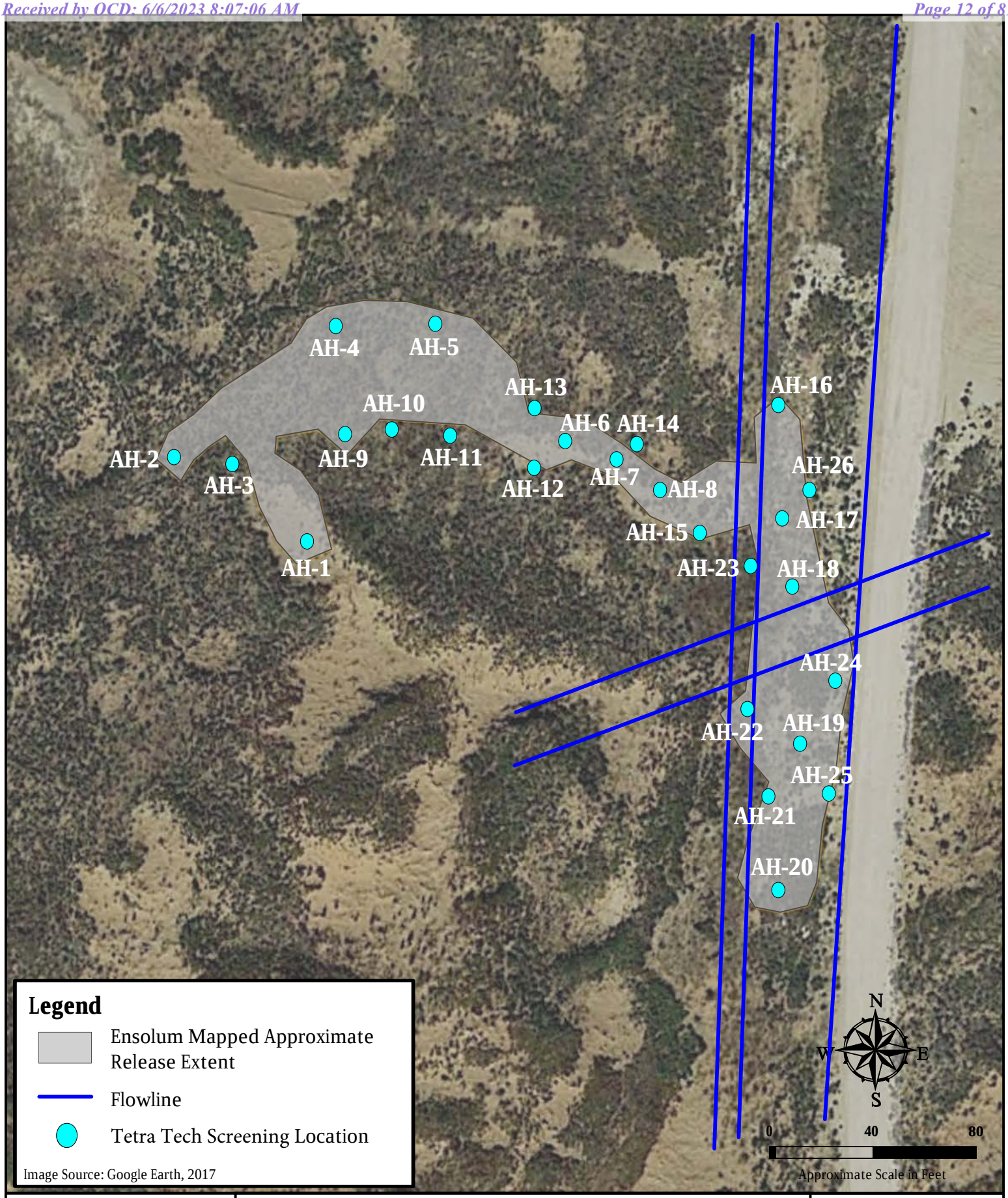
DATE:	05/23/2023
DESIGNED BY:	CHT

Figure 4



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MCA 94 FLOWLINE RELEASE
TETRA TECH SITE SCREENING LOCATION MAP

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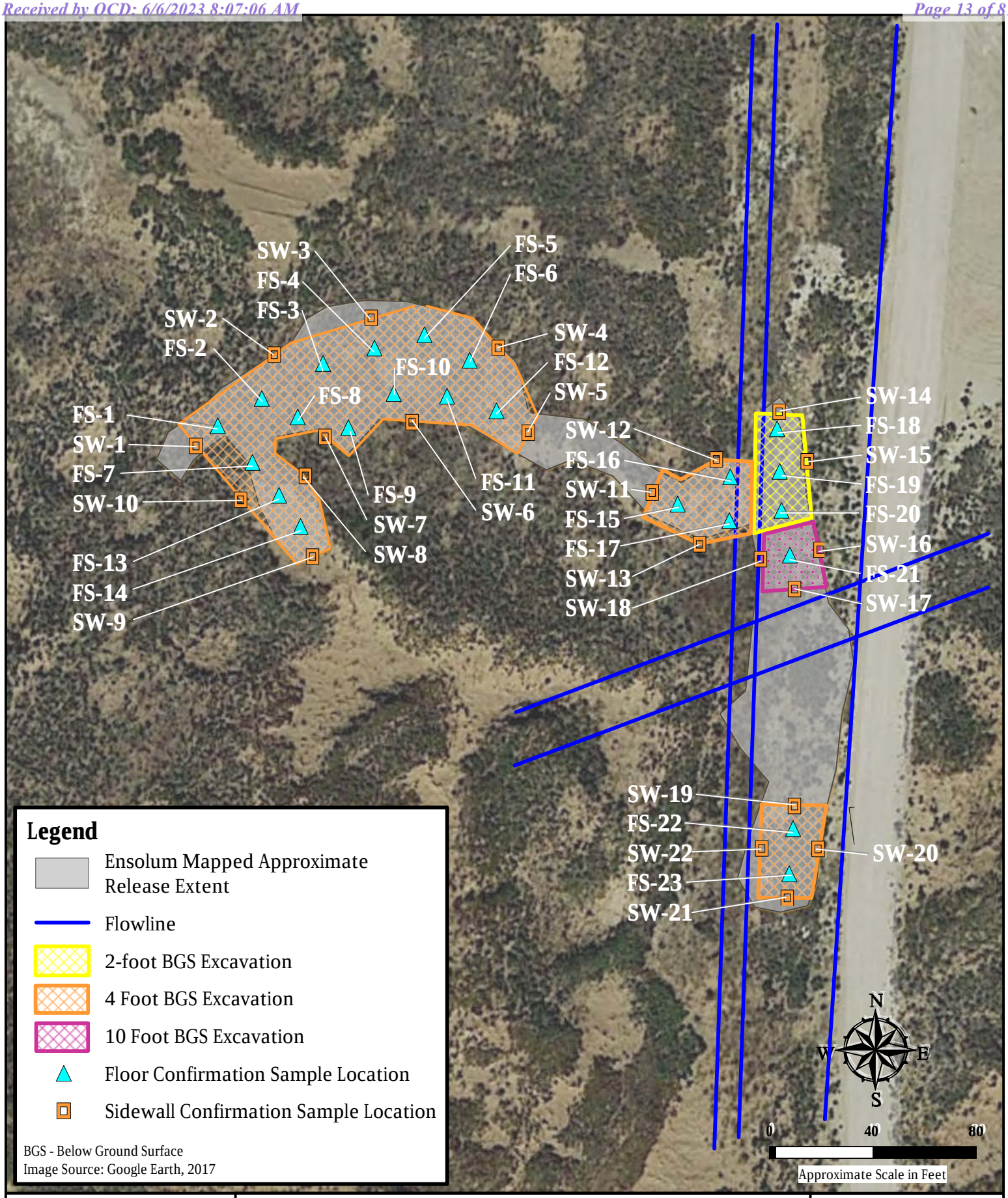
DESIGNED BY: CHT

Figure 5



Legend

- Ensolum Mapped Approximate Release Extent
- Flowline
- 2-foot BGS Excavation
- 4 Foot BGS Excavation
- 10 Foot BGS Excavation
- Floor Confirmation Sample Location
- Sidewall Confirmation Sample Location

BGS - Below Ground Surface
Image Source: Google Earth, 2017

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MCA 94 FLOWLINE RELEASE
REMEDIATION AND CONFIRMATION SAMPLING LOCATIONS

PROJECT NO:	212C-MD-03098
DATE:	05/23/2023
DESIGNED BY:	CHT

Figure 6

TABLES

TABLE 1
SUMMARY OF SHALLOW SOIL ANALYTICAL RESULTS
ENSOLUM ASSESSMENT SAMPLING - INCIDENT ID NAPP2212531906
MAVERICK PERMIAN, LLC
MCA 94 FLOWLINE RELEASE
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride[1]		BTEX[2]										TPH[3]							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH
															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 Requirements (19.15.29 NMAC)			**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).

TABLE 2
SUMMARY OF DEEP SOIL ANALYTICAL RESULTS
ENSOLUM ASSESSMENT SAMPLING - INCIDENT ID NAPP2212531906
MAVERICK PERMIAN, LLC
MCA 94 FLOWLINE RELEASE
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride[1]		BTEX[2]										TPH[3]							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH
															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 19.15.29.12 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.

TABLE 3

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]	
		feet bgs	mg/kg	Q
Reclamation Requirements (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)

TABLE 4

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]	
		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.

TABLE 5

SUMMARY OF SHALLOW 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]	
		feet bgs	mg/kg	Q
Reclamation Requirements (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).

TABLE 6

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]	
		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.

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
Contact Name	Contact Telephone
Contact email	Incident # *(assigned by OCD)*
Contact mailing address	

Location of Release Source

Latitude _____ Longitude _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# *(if applicable)*

Unit Letter	Section	Township	Range	County

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	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		

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Initial Response

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

- ☐ The source of the release has been stopped.
- ☐ The impacted area has been secured to protect human health and the environment.
- ☐ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☐ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

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

CONDITIONS

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

State of New Mexico
Oil Conservation Division

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?	50-100 (feet 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 wells.
☒ Field data
☒ Data table of soil contaminant concentration data
☒ Depth to water determination
☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
☒ Boring or excavation logs
☒ Photographs including date and GIS information
☒ Topographic/Aerial maps
☒ Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

HSE Specialist

Incident ID	NAPP2212531906
District RP	
Facility ID	
Application ID	

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

Signature: Date: 12/22/2022

email: Bryce.Wagoner@mavresources.com Telephone: 928-241-1862

OCD Only

Received by: Jocelyn Harimon Date: 12/22/2022

State of New Mexico
Oil Conservation Division

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_____

Signature: _____ Date: ___12/22/2022_____

email: _Bryce.Wagoner@mavresources.com_____ Telephone: __928-241-1862_____

OCD Only

Received by: Jocelyn Harimon Date: 12/22/2022

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

Signature: Jennifer Nobui Date: 01/20/2023

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
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: Maverick Permian LLC 1111 Bagby Street Suite 1600 Houston, TX 77002	OGRID: 331199
	Action Number: 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

State of New Mexico
Oil Conservation Division

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.

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

☑ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☑ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☑ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☑ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Bryce Wagoner Title: Permian HSE Specialist

Signature: Bryce Wagoner Date: 06/05/2023

email: Bryce.Wagoner@mavresources.com Telephone: 928-241-1862

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: Nelson Velez Date: 08/28/2023

Printed Name: Nelson Velez Title: Environmental Specialist - Adv

ATTACHMENT 2 – SITE CHARACTERIZATION DATA

MCA 94 Site Characterization

5/10/2023, 4:21:57 PM

OSE Water PODs
- Active

Karst Occurrence Potential
- Low

PLSS Second Division

PLSS First Division

1:9,028

0 0.05 0.1 0.2 mi

0 0.1 0.2 0.4 km

BLM, OCD, New Mexico Tech, Esri Community Maps Contributors, New Mexico State University, Texas Parks & Wildlife, © OpenStreetMap,

New Mexico Oil Conservation Division

NM OCD Oil and Gas Map. http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75: New Mexico Oil Conservation Division

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

No records found.

UTMNAD83 Radius Search (in meters):

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

PROJECT NAME: Conoco Maljamar Gas Plant

LOCATION: Maljamar, Texas

MONITORING WELL NO. MW-14

FIELD LOGGED BY: Anne Stewart

ELEVATION: GROUND SURFACE (msl): 4003.98 (ft)

GROUNDWATER ELEVATION (msl): 3998.98 (ft)

DRILL TYPE: Truck Mounted Air Rotary

BORE HOLE DIAMETER: 6.25 (in)

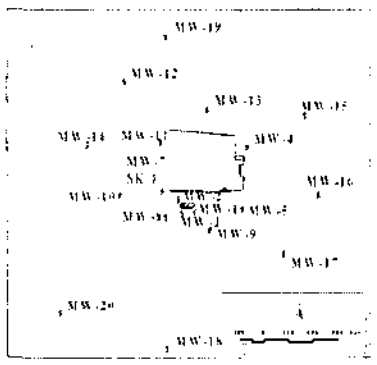
DRILLED BY: Harrison & Cooper, Inc.

DATE/TIME: HOLE STARTED: 3/20/02

DATE/TIME: COMPLETED: 3/20/02

REMARKS: bgs=Below Ground Surface
ND=Not Detected, NS=No Sample
msl=mean sea level
FOG-First occurrence of groundwater
SWL-Static Water Level

LOCATION MAP



WELL COMPLETION INFORMATION

Measuring Point Description (msl): Top of Casing

Measuring Point Elevation (msl): 4006.98

Static Water Level (feet below Top of Casing): 3931.98

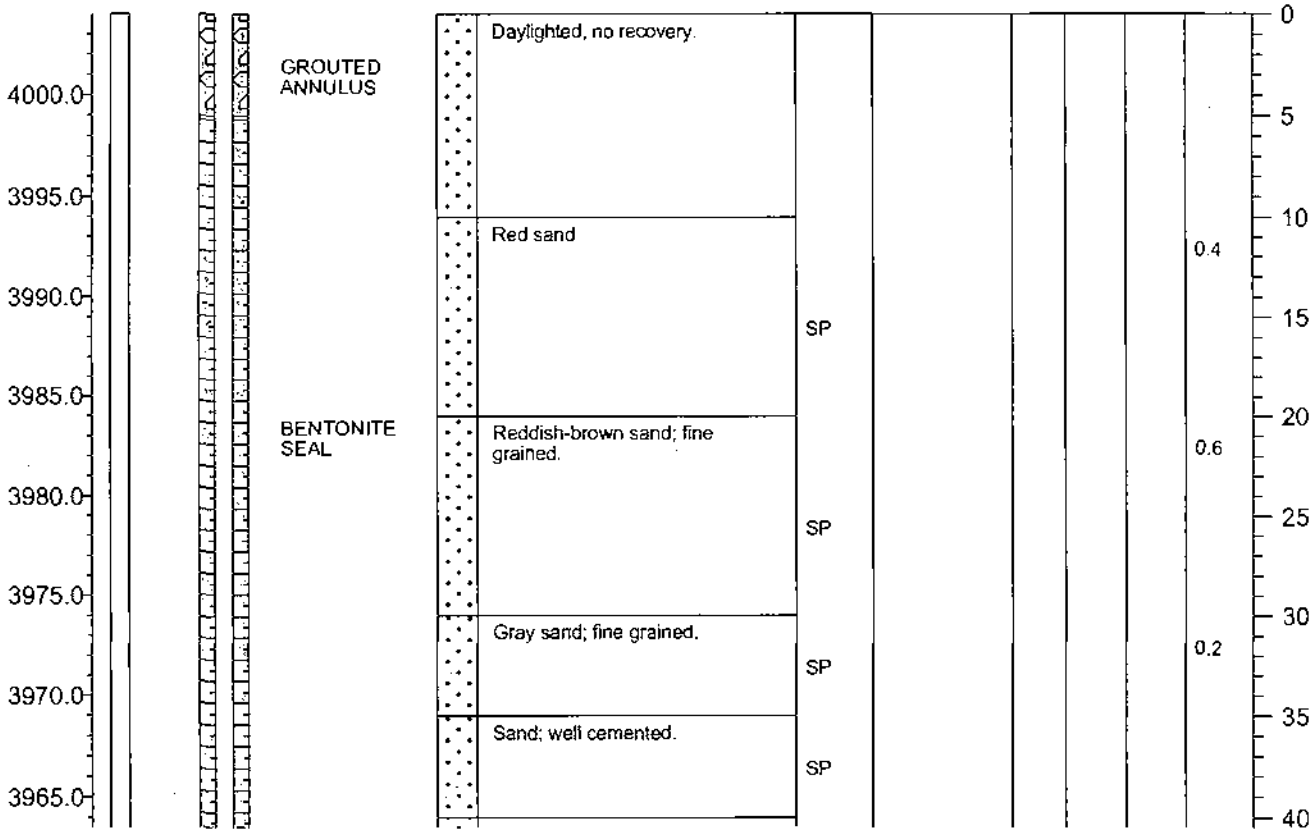
Well Development: Water Extraction Until Visibly Free of Sediment

Well Cap: Locking Cap

Type of Casing: PVC

Casing Diameter: 2 in.

Slot Size: 0.010 in



Total depth 120 feet

Bulk Sampling

2690015	MAXIM TECHNOLOGIES INC.	EXPLORATORY BORING LOG	MW-14

PROJECT NAME: Conoco Maljamar Gas Plant

LOCATION: Maljamar, Texas

MONITORING WELL NO. MW-14

FIELD LOGGED BY: Anne Stewart

ELEVATION: GROUND SURFACE (msl): 4003.98 (ft)

GROUNDWATER ELEVATION (msl): 3998.98 (ft)

DRILL TYPE: Truck Mounted Air Rotary

BORE HOLE DIAMETER: 6.25 (in)

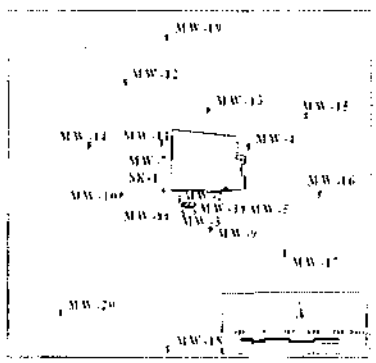
DRILLED BY: Harrison & Cooper, Inc.

DATE/TIME: HOLE STARTED: 3/20/02

DATE/TIME: COMPLETED: 3/20/02

REMARKS: bgs=Below Ground Surface
ND=Not Detected, NS=No Sample
msl=mean sea level
FOG-First occurrence of groundwater
SWL-Static Water Level

LOCATION MAP



WELL COMPLETION INFORMATION

Measuring Point Description (msl): Top of Casing

Measuring Point Elevation (msl): 4006.98

Static Water Level (feet below Top of Casing): 3931.98

Well Development: Water Extraction Until Visibly Free of Sediment

Well Cap: Locking Cap

Type of Casing: PVC

Casing Diameter: 2 in.

Slot Size: 0.010 in

ELEVATION (msl) - ft	SAMPLE INTERVAL/ID #	COMPLETION DIAGRAM	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	PID RESULT (ppm)	DEPTH (bgs) - ft
3960.0			Gray sand; fine grained, well cemented.	SP					0.1	45
3955.0									0.1	50
3950.0										55
3945.0										60
3940.0			Greenish-gray clayey fine sand.	SC					0.1	65
3935.0										70
3930.0		SWL- 3/02	Greenish-gray clayey fine sand with some oxidized (red) spots.	SC					0.0	75
3925.0										80

Total depth 120 feet

Bulk Sampling

2690015	MAXIM TECHNOLOGIES INC.	EXPLORATORY BORING LOG	MW-14

PROJECT NAME: Conoco Maljamar Gas Plant

LOCATION: Maljamar, Texas

MONITORING WELL NO. MW-14

FIELD LOGGED BY: Anne Stewart

ELEVATION: GROUND SURFACE (msl): 4003.98 (ft)

GROUNDWATER ELEVATION (msl): 3998.98 (ft)

DRILL TYPE: Truck Mounted Air Rotary

BORE HOLE DIAMETER: 6.25 (in)

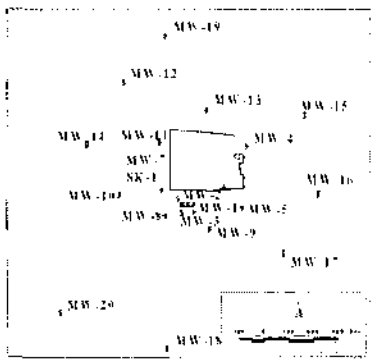
DRILLED BY: Harrison & Cooper, Inc.

DATE/TIME: HOLE STARTED: 3/20/02

DATE/TIME: COMPLETED: 3/20/02

REMARKS: bgs=Below Ground Surface
ND=Not Detected, NS=No Sample
msl=mean sea level
FOG-First occurrence of groundwater
SWL-Static Water Level

LOCATION MAP



WELL COMPLETION INFORMATION

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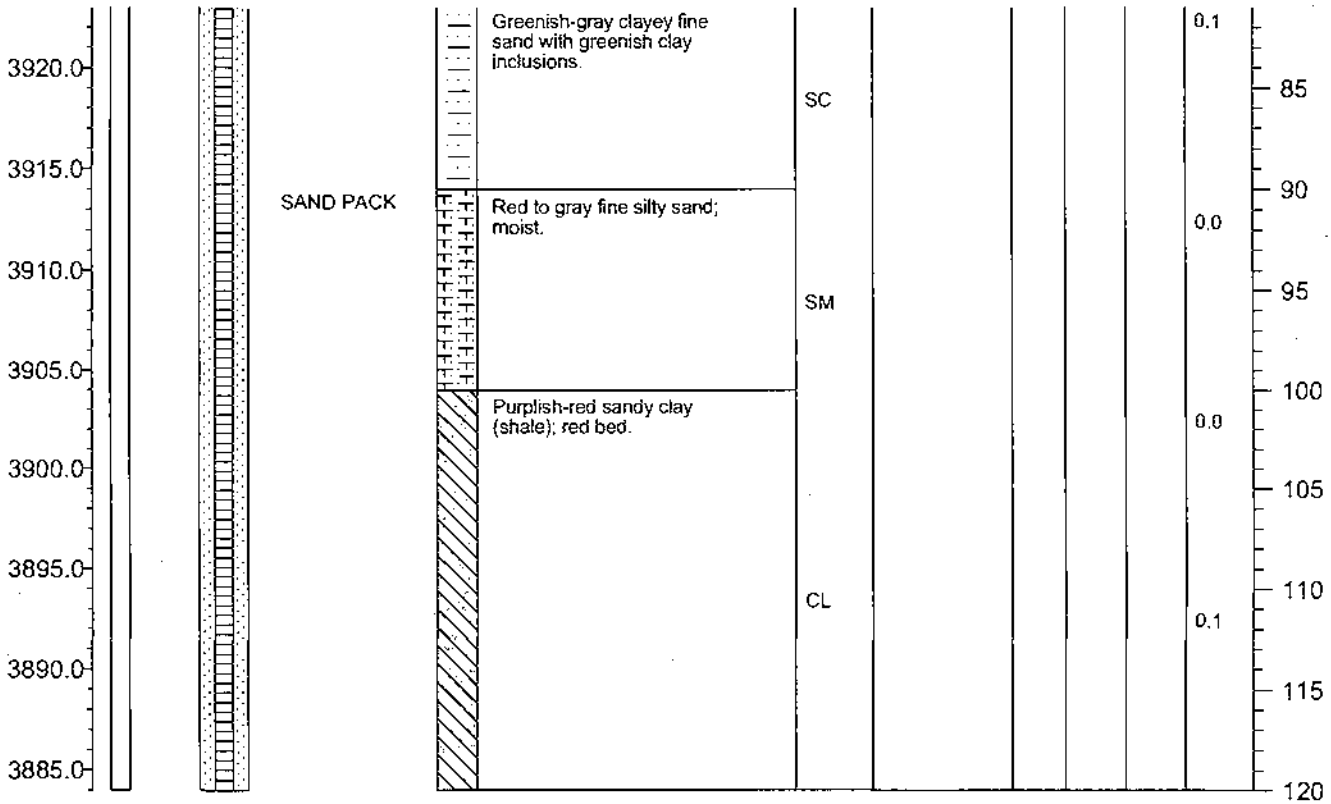
Type of Casing: PVC

Casing Diameter: 2 in.

Slot Size: 0.010 in



Total depth 120 feet

Bulk Sampling

2690015	MAXIM TECHNOLOGIES INC.	EXPLORATORY BORING LOG	MW-14

TABLE 1

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

Monitoring Well Number	*Location Coordinates***		*Top of Casing Elevation (famsl)*	*Depth*				*Screen Interval (fbgs)*	*Screen Slot Size**** *(inches)*	*Casing Diameter (inches)*	*Well Installation Date*
	Northing	*Easting*		*Total (fbgs)*	*Casing (fbgs)*	*Water (fbgs)*	*Condensate (fbgs)*				
EW-1	32.8165	-103.77452	4022.04	125	0-95	92.58		95-125	0.020	6	05/15/2007
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

TETRA TECH

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**

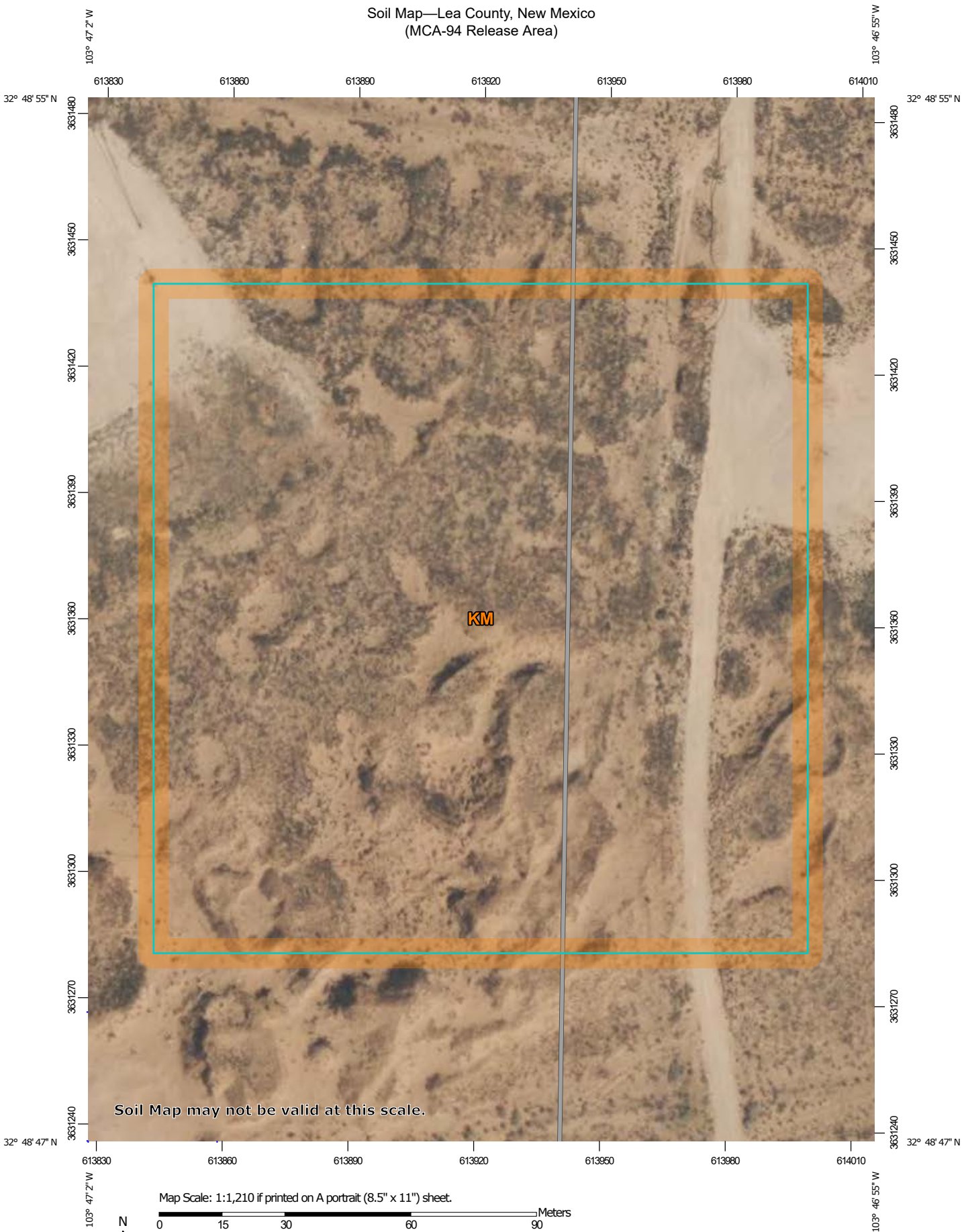
Notes:

BTOC: Below Top of Casing

AMSL: Above Mean Sea Level

NG: Not gauged

Soil Map—Lea County, New Mexico
(MCA-94 Release Area)



Map Scale: 1:1,210 if printed on A portrait (8.5" x 11") sheet.

N

Meters
0 15 30 60 90

Feet
0 50 100 200 300

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 13N WGS84

Soil Map—Lea County, New Mexico
(MCA-94 Release Area)

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

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

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

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

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

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

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

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

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

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

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

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

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KM	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

ATTACHMENT 3 – LABORATORY ANALYTICAL DATA

CARDINAL Laboratories

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

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 www.tceq.texas.gov/field/qa/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.

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

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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 **Analyzed 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 **Analyzed 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 **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	

Sample ID: FS - 4 (H232273-04)

Chloride, SM4500Cl-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

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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 **Analyzed 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 (H232273-06)

Chloride, SM4500Cl-B mg/kg **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 - 7 (H232273-07)

Chloride, SM4500Cl-B 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 (H232273-08)

Chloride, SM4500Cl-B mg/kg **Analyzed 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 (H232273-09)

Chloride, SM4500Cl-B mg/kg **Analyzed 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	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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 - 10 (H232273-10)

Chloride, SM4500Cl-B mg/kg **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 (H232273-11)

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 - 12 (H232273-12)

Chloride, SM4500Cl-B mg/kg **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	0.00	

Sample ID: FS - 13 (H232273-13)

Chloride, SM4500Cl-B mg/kg **Analyzed 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, SM4500Cl-B mg/kg **Analyzed 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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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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/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 (H232273-16)

Chloride, SM4500Cl-B 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 - 17 (H232273-17)

Chloride, SM4500Cl-B mg/kg **Analyzed 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, SM4500Cl-B 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	0.00	

Sample ID: FS - 19 (H232273-19)

Chloride, SM4500Cl-B 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	0.00	

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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 - 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 (H232273-21)

Chloride, SM4500Cl-B mg/kg **Analyzed 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 **Analyzed 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 **Analyzed 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 **Analyzed 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	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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)

Chloride, SM4500Cl-B mg/kg **Analyzed 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 - 3 (H232273-26)

Chloride, SM4500Cl-B mg/kg **Analyzed 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 - 4 (H232273-27)

Chloride, SM4500Cl-B mg/kg **Analyzed 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 - 5 (H232273-28)

Chloride, SM4500Cl-B mg/kg **Analyzed 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 - 6 (H232273-29)

Chloride, SM4500Cl-B mg/kg **Analyzed 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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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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 **Analyzed 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 (H232273-31)

Chloride, SM4500Cl-B mg/kg **Analyzed 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 (H232273-32)

Chloride, SM4500Cl-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	0.00	

Sample ID: SW - 10 (H232273-33)

Chloride, SM4500Cl-B mg/kg **Analyzed 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 (H232273-34)

Chloride, SM4500Cl-B mg/kg **Analyzed 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	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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 - 12 (H232273-35)

Chloride, SM4500Cl-B mg/kg **Analyzed 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 (H232273-36)

Chloride, SM4500Cl-B mg/kg **Analyzed 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 (H232273-37)

Chloride, SM4500Cl-B mg/kg **Analyzed 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 (H232273-38)

Chloride, SM4500Cl-B mg/kg **Analyzed 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 (H232273-39)

Chloride, SM4500Cl-B mg/kg **Analyzed 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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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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 - 17 (H232273-40)

Chloride, SM4500Cl-B mg/kg **Analyzed 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 (H232273-41)

Chloride, SM4500Cl-B mg/kg **Analyzed 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 (H232273-42)

Chloride, SM4500Cl-B mg/kg **Analyzed 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 (H232273-43)

Chloride, SM4500Cl-B mg/kg **Analyzed 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 (H232273-44)

Chloride, SM4500Cl-B mg/kg **Analyzed 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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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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 - 22 (H232273-45)

Chloride, SM4500Cl-B **mg/kg** **Analyzed 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	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

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

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Chuck.Terhune@tetratech.com

Company Name:	Tetra Tech
Project Manager:	Chuck Terhune
Address:	1500 City West Blvd ste. 100
City:	Houston State: TX Zip: 770421
Phone #:	281-755-8965 Fax #:
Project #:	212C-MD-03098 Project Owner: Maverick
Project Name:	MCA 94
Project Location:	Lea County, New Mexico
Sampler Name:	

BILL TO

P.O. #:	
Company:	Tetra Tech
Attn:	Chuck Terhune
Address:	
City:	
State:	Zip:
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	TPH 8015M	BTEX 8021B	Chloride
H232273																	
1	FS-1	C	1			X					X		5/1/23	1015			X
2	FS-2													1020			
3	FS-3													1025			
4	FS-4												5/8/23	1105			
5	FS-5													1110			
6	FS-6													1115			
7	FS-7												5/1/23	1030			
8	FS-8												5/1/23	1035			
9	FS-9												5/8/23	1120			
10	FS-10												5/8/23	1125			

Relinquished By:	Date: 5/8/23	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 1547		All Results are emailed. Please provide Email address:
Relinquished By:	Date: 5-8-23	Received By:	REMARKS:
	Time: 1615		

Delivered By: (Circle One)	Observed Temp. °C 5.9	Sample Condition Cool: Yes / No Intact: Yes / No	CHECKED BY: (Initials)	Turnaround Time: Standard ☐ Rush ☒
Sampler - UPS - Bus - Other:	Corrected Temp. °C 5.3			Thermometer ID #113 Correction Factor -0.6°C

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No Observed Temp. °C ____ Corrected Temp. °C ____

FORM-006 R 3.3 07/18/22

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CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Chuck.Terhune@tetratech.com

		BILL TO	
Company Name:	Tetra Tech	P.O. #:	
Project Manager:	Chuck Terhune	Company:	Tetra Tech
Address:	1500 City West Blvd ste. 100	Attn:	Chuck Terhune
City:	Houston State: TX Zip: 77042	Address:	
Phone #:	281-755-8965 Fax #:	City:	
Project #:	212C-MD-03098 Project Owner: Maverick	State:	Zip:
Project Name:	MCA 94	Phone #:	
Project Location:	Lea County, New Mexico	Fax #:	
Sampler Name:			

FOR LAB USE ONLY				MATRIX							PRESERV.			SAMPLING		ANALYSIS REQUEST												
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	TPH 8015M	BTEX 8021B	Chloride												
H232273																												
11	FS-11	C	1			X					X		5/8/23	1130			X											
12	FS-12												"	1135														
13	FS-13												5/1/23	1040														
14	FS-14												"	1045														
15	FS-15												5/8/23	1140														
16	FS-16													1145														
17	FS-17													1150														
18	FS-18													1155														
19	FS-19													1200														
20	FS-20													1205														

Relinquished By:	Date: 5/8/23	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 1547		All Results are emailed. Please provide Email address:
Relinquished By:	Date: 5-8-23	Received By:	REMARKS:
	Time: 1615		
Delivered By: (Circle One)	Observed Temp. °C 5.9	Sample Condition Cool Intact	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other:	Corrected Temp. °C 5.3	☑ Yes ☑ Yes ☐ No ☐ No	

Turnaround Time: Standard ☐ Rush ☒
Thermometer ID #113
Correction Factor -0.6°C

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No; Intact ☐ Yes ☐ No; Observed Temp. °C; Corrected Temp. °C

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CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Chuck.Terhune@tetratech.com

Company Name:	Tetra Tech
Project Manager:	Chuck Terhune
Address:	1500 City West Blvd ste. 100
City:	Houston State: TX Zip: 770421
Phone #:	281-755-8965 Fax #:
Project #:	212C-MD-03098 Project Owner: Maverick
Project Name:	MCA 94
Project Location:	Lea County, New Mexico
Sampler Name:	

BILL TO

P.O. #:	
Company:	Tetra Tech
Attn:	Chuck Terhune
Address:	
City:	
State: Zip:	
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	TPH 8015M	BTEX 8021B	Chloride
H232273																	
21	FS-21	C	1			X					X		5/8/23	1210			X
22	FS-22													1215			
23	FS-23													1220			
24	SW-1												5/1/23	1050			
25	SW-2												"	1055			
26	SW-3												5/8/23	1300			
27	SW-4													1305			
28	SW-5													1310			
29	SW-6													1315			
30	SW-7													1320			

Relinquished By:	Date: 5/8/23 Time: 1547	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: 5-8-23 Time: 1615	Received By:	All Results are emailed. Please provide Email address: REMARKS:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 5.9 Corrected Temp. °C 5.3	Sample Condition Cool ☑ Yes ☐ No Intact ☑ Yes ☐ No	CHECKED BY: (Initials) T.O.

Turnaround Time: Standard ☐ Rush ☒ Thermometer ID #113 Correction Factor -0.6°C

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Chuck.Terhune@tetratech.com

Company Name:	Tetra Tech	BILL TO P.O. #:	
Project Manager:	Chuck Terhune	Company:	Tetra Tech
Address:	1500 City West Blvd ste. 100	Attn:	Chuck Terhune
City:	Houston State: TX Zip: 770421	Address:	
Phone #:	281-755-8965 Fax #:	City:	
Project #:	212C-MD-03098 Project Owner: Maverick	State: Zip:	
Project Name:	MCA 94	Phone #:	
Project Location:	Lea County, New Mexico	Fax #:	
Sampler Name:			

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	ANALYSIS REQUEST: TPH 8015M	BTEX 8021B	Chloride
H232273																	
31	SW-8	C	1			X					X		5/1/23	1100			X
32	SW-9													1105			
33	SW-10													1110			
34	SW-11												5/8/23	1325			
35	SW-12													1330			
36	SW-13													1335			
37	SW-14													1340			
38	SW-15													1345			
39	SW-16													1350			
40	SW-17													1355			

Relinquished By:	Date: 5/8/23 Time: 1547	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #: All Results are emailed. Please provide Email address:
Relinquished By:	Date: 5-8-23 Time: 1615	Received By:	REMARKS:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 5.9 Corrected Temp. °C 5.3	Sample Condition Cool Intact ☑ Yes ☑ Yes ☐ No ☐ No	CHECKED BY: (Initials)

Turnaround Time: Standard ☐ Rush ☒
Thermometer ID #113
Correction Factor -0.6°C

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No; Intact ☐ Yes ☐ No; Observed Temp. °C; Corrected Temp. °C

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Chuck.Terhune@tetratech.com

Company Name:	Tetra Tech	**BILL TO**	
Project Manager:	Chuck Terhune	P.O. #:	
Address:	1500 City West Blvd ste. 100	Company:	Tetra Tech
City:	Houston State: TX Zip: 77042	Attn:	Chuck Terhune
Phone #:	281-755-8965 Fax #:	Address:	
Project #:	212C-MD-03098 Project Owner: Maverick	City:	
Project Name:	MCA 94	State: Zip:	
Project Location:	Lea County, New Mexico	Phone #:	
Sampler Name:		Fax #:	

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	TPH 8015M	BTEX 8021B	Chloride
H232273																	
41	SW-18	C	1			X					X		5/8/23	1400			X
42	SW-19													1405			
43	SW-20													1410			
44	SW-21													1415			
45	SW-22													1420			

Relinquished By:	Date: 5/8/23	Received By:	Verbal Result: ☐ Yes ☐ No	Add'l Phone #:	
	Time: 1547		All Results are emailed. Please provide Email address:		
Relinquished By:	Date: 5-8-23	Received By:	REMARKS:		
	Time: 1615				
Delivered By: (Circle One)	Observed Temp. °C 5.9	Sample Condition Cool / Intact	CHECKED BY: (Initials)	Turnaround Time: Standard ☐ Rush ☒	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C
Sampler - UPS - Bus - Other:	Corrected Temp. °C 5.3	☑ Yes ☑ Yes ☐ No ☐ No		Thermometer ID #113 Correction Factor -0.6°C	☐ Yes ☐ Yes ☐ No ☐ No Corrected Temp. °C

FORM-006 R 3.3 07/18/22

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ATTACHMENT 4 – PHOTOGRAPHIC DOCUMENTATION

S SW W NW N

180 210 240 270 300 330 0

LAT: 32.814611 **LON:** -103.782554 ±13ft

SE S SW W NW

150 180 210 240 270 300

LAT: 32.814611 **LON:** -103.782555 ±13ft

SE S SW W

120 150 180 210 240 270

LAT: 32.814598 **LON:** -103.782614 ±13ft

S SW W NW N

180 210 240 270 300 330 0

LAT: 32.814574 **LON:** -103.782934 ±13ft

N NE E SE

30 0 30 60 90 120 150

LAT: 32.814514 **LON:** -103.783368 ±13ft

LAT: 32.814389 **LON:** -103.782686 ±13ft

Remediation
Tetra Tech

MCA 94
10 May 2023, 09:55:44

W 270 300 NW 330 N 0 30 NE 60

LAT: 32.814306 **LON:** -103.782602 ±13ft

W NW N NE

40 270 300 330 0 30 60

LAT: 32.813995 **LON:** -103.782615 ±13ft

E 90 SE 120 150 S 180 210 SW 240

LAT: 32.814623 **LON:** -103.783280 ±9ft

SW W NW N NE

240 270 300 330 0 30

LAT: 32.814400 **LON:** -103.783160 ±13ft

Remediation
Tetra Tech

MCA 94
11 May 2023, 16:50:35

SW W NW N

240 270 300 330 0 30

LAT: 32.814472 **LON:** -103.783170 ±13ft

Remediation
Tetra Tech

MCA 94
11 May 2023, 16:51:03

NW N NE E

300 330 0 30 60 90

LAT: 32.814482 **LON:** -103.783164 ±13ft

Remediation
Tetra Tech

MCA 94
11 May 2023, 16:51:25

S SW W NW N

180 210 240 270 300 330 0

LAT: 32.814622 **LON:** -103.782932 ±13ft

Remediation
Tetra Tech

MCA 94
11 May 2023, 16:51:55

NE E SE S

0 60 90 120 150 180 210

LAT: 32.814626 **LON:** -103.782931 ±13ft

Remediation
Tetra Tech

MCA 94
11 May 2023, 16:52:01

SW W NW N

210 240 270 300 330 0

LAT: 32.814478 **LON:** -103.782666 ±13ft

SE 120 150 **S** 180 210 SW 240 **W** 270

LAT: 32.814404 **LON:** -103.782592 ±13ft

Remediation
Tetra Tech

MCA 94
11 May 2023, 16:52:44

ATTACHMENT 5 – NMSLO SEED MIXTURE DETAILS

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**	**F**
Little bluestem	**Cimarron, Pastura**	**3.0**	**F**
Black grama	**VNS, Southern**	**1.0**	**D**
Sand dropseed	**VNS, Southern**	**4.0**	**S**
Plains bristlegrass	**VNS, Southern**	**2.0**	**D**
Forbs:			
Firewheel (Gaillardia)	**VNS, Southern**	**1.0**	**D**
Annual Sunflower	**VNS, Southern**	**1.0**	**D**
Shrubs:			
Fourwing Saltbush	**VNS, Southern**	**1.0**	**F**
	Total PLS/acre	**16.0**	

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
District IV
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 224263

CONDITIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 224263
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	8/28/2023