



May 7, 2024

**New Mexico Oil Conservation Division**

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

**Re: Remediation Work Plan  
MCA Unit 151 Flowline Release  
Incident Number nAPP2328619341  
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Maverick Permian, LLC (Maverick), has prepared the following *Remediation Work Plan (Work Plan)* to address impacted soil resulting from a release at the MCA Unit 151 Flowline (Site). The following *Work Plan* documents the delineation activities completed to date, and proposes additional vertical delineation activities and excavation of impacted soil.

**SITE DESCRIPTION AND RELEASE SUMMARY**

The Site is located in Unit F, Section 28, Township 17 South, Range 32 East, in Lea County, New Mexico (32.8080° N, -103.7725° W) and is associated with oil and gas exploration and production operations on Federal Land managed by Bureau of Land Management (BLM).

On October 8, 2023, a flowline rupture resulted in the release of approximately 15 barrels (bbls) of produced water and 1 bbl of crude oil onto the surrounding pasture. No fluids were recovered. Maverick reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on October 25, 2023. The release was assigned Incident Number nAPP2328619341.

**SITE CHARACTERIZATION AND CLOSURE CRITERIA**

The Site was characterized to assess applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization are summarized below and detailed in the NMOCD permitting portal Form C-141 Site Characterization section. Potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be between 51 feet and 100 feet below ground surface (bgs) based on the nearest available groundwater well data. The closest permitted groundwater wells with depth to groundwater data are New Mexico Office of the State Engineer (NMOSE) wells RA 12020 POD 1 and RA 12721-POD 2 which are temporary monitoring wells installed to monitor groundwater impacts associated with a release north of the Site at the Maljamar Gas Plant. The monitoring wells are located approximately 950 feet to 1,050 feet north and south of the Site and have a reported depth to groundwater ranging from 75 feet to 81 feet. Maverick and Ensolum do not believe the monitoring wells

are sensitive receptors for the subject release. The monitoring wells were installed to investigate subsurface impacts and conduct long-term monitoring of affected groundwater. They are not utilized for beneficial use and will be plugged and abandoned upon completion of corrective action. NMOCD has previously agreed with this evaluation and approved closure of Incident Number NAPP2235377174, also located at the MCA Unit 151 site. The referenced well records are provided in Appendix A.

The closest continuously flowing or significant watercourse is greater than 300 feet from the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 10,000 mg/kg

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH applies to the top 4 feet of the pasture area that was impacted by the release, per 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be reclaimed following remediation.

## SITE ASSESSMENT ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On October 19 2023, Tetra Tech personnel were at the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Soil borings SB-1 and SB-3 through SB-11 were advanced via hand auger around the release extent to confirm the lateral extent of the surface release. The soil borings were advanced to a depth of 1-foot bgs. Discrete delineation soil samples were collected from soil borings at depths ranging from the ground surface to 1-foot bgs.

Soil borings SB-2 and SB-12 through SB-16 were advanced via hand auger within the release extent to assess the vertical extent of the release. The soil borings were advanced to a depth of 4 feet bgs. Discrete delineation soil samples were collected from soil borings at depths ranging from the ground surface to 4 feet bgs. The release extent and delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix B.

The delineation soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following constituents of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method SM4500.

## LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for the delineation soil samples collected from soil borings SB-1 and SB-3 through SB-11, advanced around the release extent, indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria and confirmed the lateral extent of the surface release.

Laboratory analytical results for the delineation soil samples collected from soil borings SB-2 and SB-12 through SB-16, advanced within the release extent, indicated TPH and chloride concentrations exceeded the Site Closure Criteria and/or reclamation requirements at depths ranging from the ground surface to 4 feet below ground surface. Laboratory analytical results are summarized on the attached Table 1 and the complete laboratory analytical report is included in Appendix C.

Based on the soil sample analytical results, additional delineation and remediation activities are warranted and are proposed below.

## PROPOSED REMEDIATION WORKPLAN

The delineation soil sample results indicated soil containing TPH and chloride concentrations exceeding the Site Closure Criteria and/or reclamation requirements is present across an approximate 13,000 square foot area around soil borings SB-2 and SB-12 through SB-16. The impacted soil extends to a depth of 2 feet bgs around soil boring SB-16 and to a depth greater than 4 feet bgs around soil borings SB-2 and SB-12 through SB-15. Based on the delineation soil sample analytical results, Maverick proposes to complete the following remediation activities:

- Potholes will be advanced via backhoe at the location of soil borings SB-2 and SB-12 through SB-15 to delineate the vertical extent of impacted soil. Soil from the potholes will be field screened at 1-foot intervals for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Field screening results and observations will be logged on lithologic/soil sampling logs. Two delineation samples from each pothole will be selected for laboratory analysis; the sample with the highest field screening result and the sample from the final pothole depth.
  - Final depth of the potholes will be determined by field screening results indicating compliance with the most stringent Table I Closure Criteria.
  - The delineation soil samples will be collected and handled as described above and analyzed for BTEX, TPH, and chloride.
- Upon completion of delineation activities, the impacted soil will be excavated. Excavation will proceed laterally and vertically until excavation sidewall and floor samples confirm all COC concentrations are compliant with the Site Closure Criteria and reclamation requirements in the top four feet. In areas where the excavation depth exceeds 4 feet bgs, the Site Closure Criteria will be applied.
  - 5-point composite soil samples will be collected from the sidewalls and floor of the final excavation extent. The 5-point composite samples will be collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing.
  - The excavation sidewall samples will be collected at a frequency of every 200 square feet.
  - Due to the estimated size of the excavation (13,000 square feet), Maverick requests a variance for frequency of excavation floor samples. Maverick proposes collecting floor samples at a frequency of every 400 square feet from the floor of the excavation.

Maverick Permian, LLC  
Remediation Work Plan  
MCA Unit 151 Flowline Release

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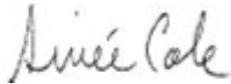
- The excavation confirmation soil samples will be handled as described above and analyzed for BTEX, TPH, and chloride.
- The excavated soil will be transported to an approved landfill facility for disposal.
- Upon completion of excavation activities, the excavation will be backfilled with locally procured backfill and topsoil and recontoured to match pre-existing conditions.

Maverick will complete the delineation and excavation activities within 90 days of the date of approval of this *Work Plan* by the NMOCD. A *Closure Request* detailing the delineation and excavation activities will be submitted to the NMOCD upon completion of excavation activities and receipt of final laboratory analytical results.

Maverick believes the scope of work described above meets the requirements set forth in 19.15.29 NMAC and is protective of human health, the environment, and groundwater and respectfully requests approval of this *Work Plan* for Incident Number nAPP2328619341.

If you have any questions or comments, please contact Ms. Aimee Cole at (720) 384-7365 or [acole@ensolum.com](mailto:acole@ensolum.com).

Sincerely,  
**Ensolum, LLC**



Aimee Cole  
Senior Managing Scientist

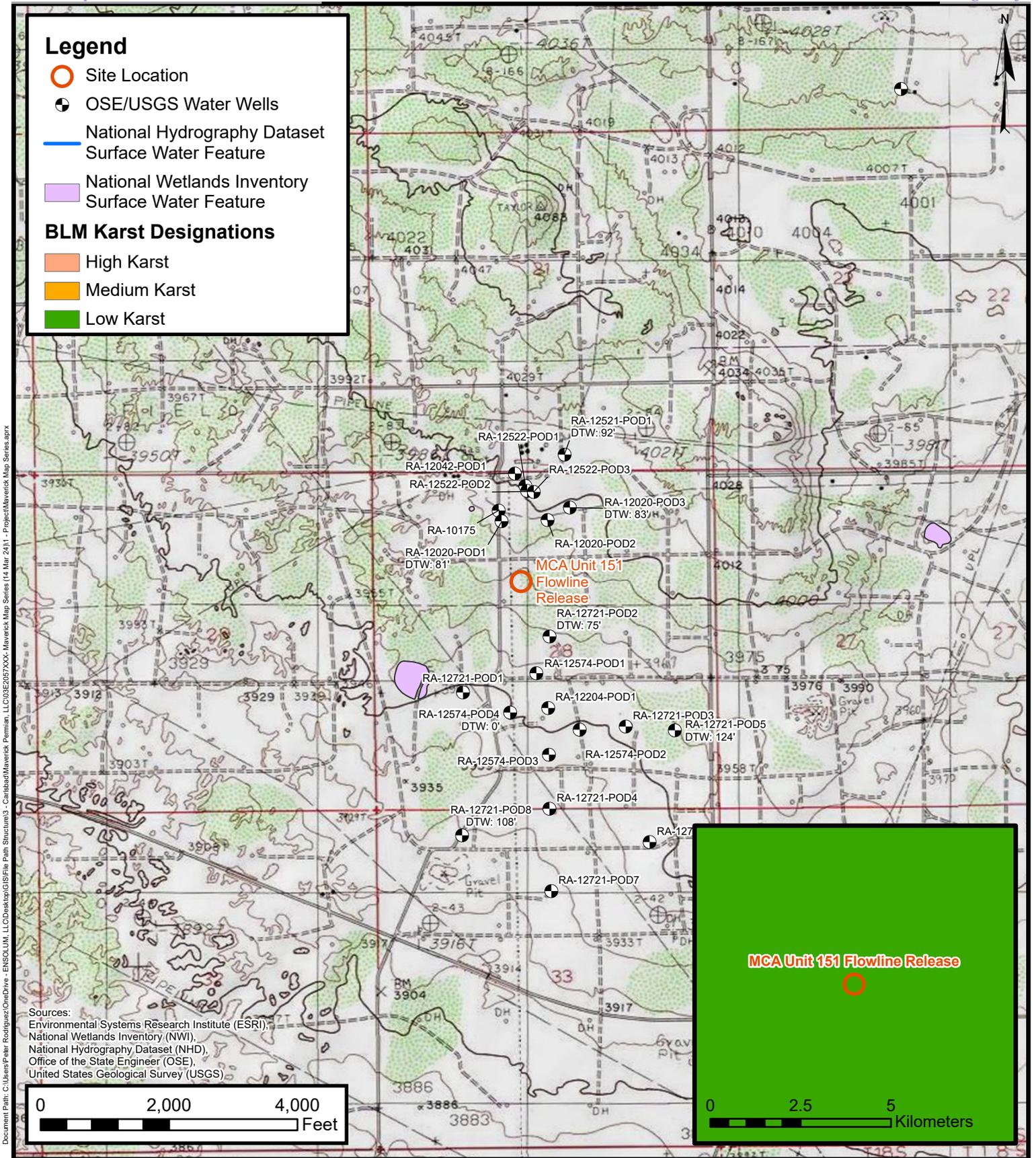
cc: Bryce Wagoner, Maverick Natural Resources  
Bureau of Land Management

Appendices:

- Figure 1 Site Receptor Map
- Figure 2 Delineation Soil Sample Locations
- Table 1 Soil Sample Analytical Results
- Appendix A Referenced Well Records
- Appendix B Photographic Log
- Appendix C Laboratory Analytical Reports & Chain of Custody Documentation



FIGURES



Document Path: C:\Users\Paier.Rodriguez\OneDrive - ENSOLUM, LLC\Desktop\GIS\Map Series (14, Mar 2024) - Project\Maverick Map Series.aprx



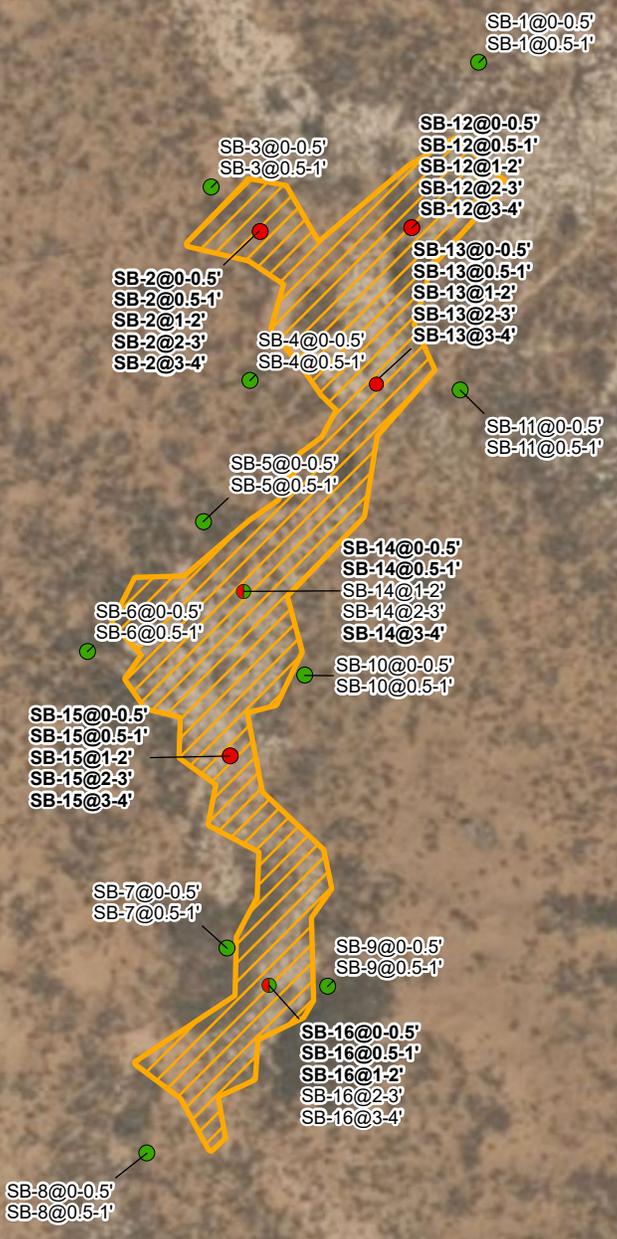
# Site Receptor Map

MCA Unit 151 Flowline Release  
 Maverick Permian, LLC  
 Incident Number: nAPP2328619341  
 F-28-17S-32E  
 Lea County, New Mexico

FIGURE  
 1

### Legend

- Delineation Location with Soil Samples in Compliance with Closure Criteria
- Delineation Location with Some Soil Samples Exceeding Closure Criteria
- Delineation Location with all Soil Samples Exceeding Closure Criteria
- Release Extent



Notes:  
 Sample ID @ Depth Below Ground Surface.  
 Samples in bold indicate sample exceeded applicable closure criteria.



Sources: Environmental Systems Research Institute (ESRI)



## Delineation Soil Sample Locations

Maverick Permian, LLC  
 MCA Unit 151 Flowline Release  
 Incident Number: nAPP2328619341  
 Unit F, Section 28, Township 17 South, Range 32 East  
 Lea County, New Mexico

# FIGURE

## 2



TABLES

<b>TABLE 1</b> <b>SOIL SAMPLE ANALYTICAL RESULTS</b> MCA Unit 151 Flowline Release Maverick Permian, LLC Lea County, New Mexico										
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	2,500	10,000
NMOCD Reclamation Requirements for the top four feet			NE	NE	NE	NE	NE	NE	100	600
Delineation Soil Samples										
SB-1	10/19/2023	0-0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SB-1	10/19/2023	0.5-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SB-2	10/19/2023	0-0.5	<0.050	<0.300	<50.0	22,100	9,450	<b>22,100</b>	<b>31,550</b>	48.0
SB-2	10/19/2023	0.5-1	<0.050	0.75	<50.0	14,700	7,230	<b>14,700</b>	<b>21,930</b>	48.0
SB-2	10/19/2023	1-2	<0.050	<0.300	<50.0	10,900	5,830	<b>10,900</b>	<b>16,730</b>	32.0
SB-2	10/19/2023	2-3	<0.050	<0.300	<50.0	9,660	4,780	<b>9,660</b>	<b>14,440</b>	<16.0
SB-2	10/19/2023	3-4	<0.050	<0.300	<50.0	5,550	3,200	<b>5,550</b>	<b>8,750</b>	16.0
SB-3	10/19/2023	0-0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SB-3	10/19/2023	0.5-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SB-4	10/19/2023	0-0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SB-4	10/19/2023	0.5-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SB-5	10/19/2023	0-0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SB-5	10/19/2023	0.5-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SB-6	10/19/2023	0-0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SB-6	10/19/2023	0.5-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SB-7	10/19/2023	0-0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SB-7	10/19/2023	0.5-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SB-8	10/19/2023	0-0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SB-8	10/19/2023	0.5-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SB-9	10/19/2023	0-0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SB-9	10/19/2023	0.5-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0

<b>TABLE 1</b> <b>SOIL SAMPLE ANALYTICAL RESULTS</b> MCA Unit 151 Flowline Release Maverick Permian, LLC Lea County, New Mexico										
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	2,500	10,000
NMOCD Reclamation Requirements for the top four feet			NE	NE	NE	NE	NE	NE	100	600
SB-10	10/19/2023	0-0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SB-10	10/19/2023	0.5-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SB-11	10/19/2023	0-0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SB-11	10/19/2023	0.5-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SB-12	10/19/2023	0-0.5	<b>23.7</b>	<b>587</b>	8,180	25,800	5,430	<b>33,980</b>	<b>39,410</b>	<b>3,200</b>
SB-12	10/19/2023	0.5-1	<b>13.9</b>	<b>541</b>	6,940	14,300	2,830	<b>21,240</b>	<b>24,070</b>	<b>1,710</b>
SB-12	10/19/2023	1-2	6.50	<b>313</b>	3,610	8,490	1,550	<b>12,100</b>	<b>13,650</b>	<b>2,200</b>
SB-12	10/19/2023	2-3	1.88	<b>147</b>	1,390	3,690	555	<b>5,080</b>	<b>5,635</b>	<b>5,360</b>
SB-12	10/19/2023	3-4	1.53	<b>81.9</b>	2,260	6,770	1,070	<b>9,030</b>	<b>10,100</b>	<b>4,880</b>
SB-13	10/19/2023	0-0.5	<0.050	<b>132</b>	2,560	15,300	2,970	<b>17,860</b>	<b>20,830</b>	96.0
SB-13	10/19/2023	0.5-1	<0.050	7.48	229	2,300	469	<b>2,529</b>	<b>2,998</b>	128
SB-13	10/19/2023	1-2	<0.050	0.84	27	706	155	<b>733</b>	<b>888</b>	256
SB-13	10/19/2023	2-3	<0.050	0.36	<10.0	421	90	<b>421</b>	<b>511</b>	<b>1,800</b>
SB-13	10/19/2023	3-4	<0.050	<0.300	<10.0	501	107	<b>501</b>	<b>608</b>	<b>1,710</b>
SB-14	10/19/2023	0-0.5	0.12	44.0	1,200	12,400	2,410	<b>13,600</b>	<b>16,010</b>	<b>2,400</b>
SB-14	10/19/2023	0.5-1	<0.050	<0.300	<10.0	145	24	<b>145</b>	<b>169</b>	<b>1,960</b>
SB-14	10/19/2023	1-2	<0.050	<0.300	<10.0	34.8	<10.0	34.8	34.8	496
SB-14	10/19/2023	2-3	<0.050	<0.300	<10.0	80.3	<10.0	80.3	80.3	576
SB-14	10/19/2023	3-4	<0.050	<0.300	<10.0	496	103	<b>496</b>	<b>599</b>	<b>650</b>

<b>TABLE 1</b> <b>SOIL SAMPLE ANALYTICAL RESULTS</b> MCA Unit 151 Flowline Release Maverick Permian, LLC Lea County, New Mexico										
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	2,500	10,000
NMOCD Reclamation Requirements for the top four feet			NE	NE	NE	NE	NE	NE	100	600
SB-15	10/19/2023	0-0.5	<2.00	<b>107</b>	2,820	31,500	6,080	<b>34,320</b>	<b>40,400</b>	<b>2,160</b>
SB-15	10/19/2023	0.5-1	2.93	<b>98.1</b>	2,600	30,500	5,830	<b>33,100</b>	<b>38,930</b>	<b>2,160</b>
SB-15	10/19/2023	1-2	<5.00	26.4	1,300	12,600	1,980	<b>13,900</b>	<b>15,880</b>	<b>1,640</b>
SB-15	10/19/2023	2-3	<0.20	26.6	366	3,020	587	<b>3,386</b>	<b>3,973</b>	288
SB-15	10/19/2023	3-4	<0.050	2.3	68.8	832	<10.0	<b>901</b>	<b>901</b>	<b>656</b>
SB-16	10/19/2023	0-0.5	<0.050	<0.300	<10.0	1,810	329	<b>1,810</b>	<b>2,139</b>	32.0
SB-16	10/19/2023	0.5-1	<0.050	<0.300	<10.0	211	59.9	<b>211</b>	<b>271</b>	32.0
SB-16	10/19/2023	1-2	<0.050	<0.300	<10.0	165	31.8	<b>165</b>	<b>197</b>	32.0
SB-16	10/19/2023	2-3	<0.050	<0.300	<10.0	21.7	<10.0	21.7	21.7	32.0
SB-16	10/19/2023	3-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0

**Notes:**

bgs: below ground surface

mg/kg: milligrams per kilogram

NMAC: New Mexico Administrative Code

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.

**Grey** text represents samples that have been excavated



## APPENDIX A

### Referenced Well Records

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# New Mexico Office of the State Engineer

## Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

<b>Well Tag</b>	<b>POD Number</b>	<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
NA	RA 12721 POD2	1	1	4	28	17S	32E	615055	3630407

<b>Driller License:</b> 1456	<b>Driller Company:</b> WHITE DRILLING COMPANY
<b>Driller Name:</b> JOHN W WHITE	
<b>Drill Start Date:</b> 04/18/2019	<b>Drill Finish Date:</b> 04/19/2019
<b>Log File Date:</b> 05/15/2019	<b>PCW Rcv Date:</b>
<b>Pump Type:</b>	<b>Source:</b> Shallow
<b>Casing Size:</b> 2.00	<b>Estimated Yield:</b> 0 GPM
	<b>Pipe Discharge Size:</b>
	<b>Depth Well:</b> 124 feet
	<b>Depth Water:</b> 75 feet

Water Bearing Stratifications:	Top	Bottom	Description
	56	99	Sandstone/Gravel/Conglomerate
	99	102	Sandstone/Gravel/Conglomerate
	102	103	Shale/Mudstone/Siltstone
	103	105	Shale/Mudstone/Siltstone
	105	117	Shale/Mudstone/Siltstone
	117	118	Other/Unknown
	118	120	Shale/Mudstone/Siltstone
	120	121	Sandstone/Gravel/Conglomerate
	121	124	Shale/Mudstone/Siltstone

Casing Perforations:	Top	Bottom
	84	124

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



# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)						
<b>Well Tag</b>	<b>POD Number</b>	(quarters are smallest to largest)	(NAD83 UTM in meters)					
		<b>Q64 Q16 Q4 Sec Tws Rng</b>	<b>X Y</b>					
	RA 12020 POD1	2 2 1 28 17S 32E	614828 3630954					

<b>Driller License:</b> 1456	<b>Driller Company:</b> WHITE DRILLING COMPANY	
<b>Driller Name:</b> WHITE, JOHN (LD)		
<b>Drill Start Date:</b> 09/24/2013	<b>Drill Finish Date:</b> 09/25/2013	<b>Plug Date:</b>
<b>Log File Date:</b> 10/07/2013	<b>PCW Rcv Date:</b>	<b>Source:</b> Shallow
<b>Pump Type:</b>	<b>Pipe Discharge Size:</b>	<b>Estimated Yield:</b>
<b>Casing Size:</b> 2.00	<b>Depth Well:</b> 120 feet	<b>Depth Water:</b> 81 feet

Water Bearing Stratifications:	Top	Bottom	Description
	70	111	Sandstone/Gravel/Conglomerate
	111	120	Shale/Mudstone/Siltstone

Casing Perforations:	Top	Bottom
	75	110

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

4/23/24 1:39 PM

POINT OF DIVERSION SUMMARY



## APPENDIX B

### Photographic Log

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**Photographic Log**  
 Maverick Permian, LLC  
 MCA Unit 151 Flowline Release  
 Incident Number nAPP2328619341



Photograph 1 Date: 10/10/2023  
 Description Release area  
 View: South

Photograph 2 Date: 10/10/2023  
 Description: Release area  
 View: Northwest



Photograph 3 Date: 10/10/2023  
 Description Release area  
 View: South

Photograph 4 Date: 10/10/2023  
 Description: Release area  
 View: North



## APPENDIX C

### Laboratory Analytical Reports & Chain of Custody Documentation

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

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October 25, 2023

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: MCA - 151

Enclosed are the results of analyses for samples received by the laboratory on 10/19/23 16:19.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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:	10/19/2023	Sampling Date:	10/19/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	MCA - 151	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03256	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SB - 1 (0-.5') (H235740-01)**

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/24/2023	ND	2.11	105	2.00	7.95	
Toluene*	<0.050	0.050	10/24/2023	ND	2.14	107	2.00	5.23	
Ethylbenzene*	<0.050	0.050	10/24/2023	ND	2.25	113	2.00	5.41	
Total Xylenes*	<0.150	0.150	10/24/2023	ND	6.74	112	6.00	5.64	
Total BTEX	<0.300	0.300	10/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/23/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/20/2023	ND	186	92.8	200	0.215	
DRO >C10-C28*	<10.0	10.0	10/20/2023	ND	203	102	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	10/20/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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:	10/19/2023	Sampling Date:	10/19/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	MCA - 151	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03256	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SB - 1 (.5-1') (H235740-02)**

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	2.08	104	2.00	2.05	
Toluene*	<0.050	0.050	10/23/2023	ND	2.04	102	2.00	5.61	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.98	99.1	2.00	3.53	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.92	98.7	6.00	5.28	
Total BTEX	<0.300	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/23/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/20/2023	ND	186	92.8	200	0.215	
DRO >C10-C28*	<10.0	10.0	10/20/2023	ND	203	102	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	10/20/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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:	10/19/2023	Sampling Date:	10/19/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	MCA - 151	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03256	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SB - 3 (0-.5') (H235740-03)**

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	2.08	104	2.00	2.05	
Toluene*	<0.050	0.050	10/23/2023	ND	2.04	102	2.00	5.61	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.98	99.1	2.00	3.53	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.92	98.7	6.00	5.28	
Total BTEX	<0.300	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/23/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	180	90.2	200	2.17	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	196	98.0	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 89.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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:	10/19/2023	Sampling Date:	10/19/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	MCA - 151	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03256	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SB - 3 (.5-1') (H235740-04)**

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	2.08	104	2.00	2.05	
Toluene*	<0.050	0.050	10/23/2023	ND	2.04	102	2.00	5.61	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.98	99.1	2.00	3.53	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.92	98.7	6.00	5.28	
Total BTEX	<0.300	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/23/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	180	90.2	200	2.17	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	196	98.0	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/19/2023	Sampling Date:	10/19/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	MCA - 151	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03256	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SB - 4 (0-.5') (H235740-05)**

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	2.08	104	2.00	2.05	
Toluene*	<0.050	0.050	10/23/2023	ND	2.04	102	2.00	5.61	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.98	99.1	2.00	3.53	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.92	98.7	6.00	5.28	
Total BTEX	<0.300	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/23/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	180	90.2	200	2.17	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	196	98.0	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/19/2023	Sampling Date:	10/19/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	MCA - 151	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03256	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SB - 4 (.5-1') (H235740-06)**

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	2.08	104	2.00	2.05	
Toluene*	<0.050	0.050	10/23/2023	ND	2.04	102	2.00	5.61	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.98	99.1	2.00	3.53	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.92	98.7	6.00	5.28	
Total BTEX	<0.300	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/23/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	180	90.2	200	2.17	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	196	98.0	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 97.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/19/2023	Sampling Date:	10/19/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	MCA - 151	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03256	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SB - 5 (0-.5') (H235740-07)**

BTEX 8021B		mg/kg		Analyzed By: AW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/23/2023	ND	2.08	104	2.00	2.05		
Toluene*	<0.050	0.050	10/23/2023	ND	2.04	102	2.00	5.61		
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.98	99.1	2.00	3.53		
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.92	98.7	6.00	5.28		
Total BTEX	<0.300	0.300	10/23/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/23/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	180	90.2	200	2.17		
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	196	98.0	200	2.53		
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND						

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.1 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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:	10/19/2023	Sampling Date:	10/19/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	MCA - 151	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03256	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SB - 5 (.5-1') (H235740-08)**

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	2.08	104	2.00	2.05	
Toluene*	<0.050	0.050	10/23/2023	ND	2.04	102	2.00	5.61	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.98	99.1	2.00	3.53	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.92	98.7	6.00	5.28	
Total BTEX	<0.300	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/23/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	180	90.2	200	2.17	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	196	98.0	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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:	10/19/2023	Sampling Date:	10/19/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	MCA - 151	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03256	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SB - 6 (0-.5') (H235740-09)**

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	2.08	104	2.00	2.05	
Toluene*	<0.050	0.050	10/23/2023	ND	2.04	102	2.00	5.61	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.98	99.1	2.00	3.53	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.92	98.7	6.00	5.28	
Total BTEX	<0.300	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/23/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	180	90.2	200	2.17	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	196	98.0	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/19/2023	Sampling Date:	10/19/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	MCA - 151	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03256	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SB - 6 (.5-1') (H235740-10)**

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	2.08	104	2.00	2.05	
Toluene*	<0.050	0.050	10/23/2023	ND	2.04	102	2.00	5.61	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.98	99.1	2.00	3.53	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.92	98.7	6.00	5.28	
Total BTEX	<0.300	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/23/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	180	90.2	200	2.17	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	196	98.0	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/19/2023	Sampling Date:	10/19/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	MCA - 151	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03256	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SB - 7 (0-.5') (H235740-11)**

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	2.08	104	2.00	2.05	
Toluene*	<0.050	0.050	10/23/2023	ND	2.04	102	2.00	5.61	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.98	99.1	2.00	3.53	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.92	98.7	6.00	5.28	
Total BTEX	<0.300	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/23/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	180	90.2	200	2.17	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	196	98.0	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 122 % 48.2-134

Surrogate: 1-Chlorooctadecane 138 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/19/2023	Sampling Date:	10/19/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	MCA - 151	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03256	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SB - 7 (.5-1') (H235740-12)**

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	2.08	104	2.00	2.05	
Toluene*	<0.050	0.050	10/23/2023	ND	2.04	102	2.00	5.61	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.98	99.1	2.00	3.53	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.92	98.7	6.00	5.28	
Total BTEX	<0.300	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 128 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/23/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	180	90.2	200	2.17	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	196	98.0	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/19/2023	Sampling Date:	10/19/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	MCA - 151	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03256	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SB - 8 (0-.5') (H235740-13)**

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	2.08	104	2.00	2.05	
Toluene*	<0.050	0.050	10/23/2023	ND	2.04	102	2.00	5.61	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.98	99.1	2.00	3.53	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.92	98.7	6.00	5.28	
Total BTEX	<0.300	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/23/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	180	90.2	200	2.17	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	196	98.0	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/19/2023	Sampling Date:	10/19/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	MCA - 151	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03256	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SB - 8 (.5-1') (H235740-14)**

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	2.08	104	2.00	2.05	
Toluene*	<0.050	0.050	10/23/2023	ND	2.04	102	2.00	5.61	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.98	99.1	2.00	3.53	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.92	98.7	6.00	5.28	
Total BTEX	<0.300	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/23/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	180	90.2	200	2.17	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	196	98.0	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 97.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/19/2023	Sampling Date:	10/19/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	MCA - 151	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03256	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SB - 9 (0-.5') (H235740-15)**

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	2.08	104	2.00	2.05	
Toluene*	<0.050	0.050	10/23/2023	ND	2.04	102	2.00	5.61	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.98	99.1	2.00	3.53	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.92	98.7	6.00	5.28	
Total BTEX	<0.300	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/23/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	180	90.2	200	2.17	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	196	98.0	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 140 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/19/2023	Sampling Date:	10/19/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	MCA - 151	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03256	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SB - 9 (.5-1') (H235740-16)**

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	2.08	104	2.00	2.05	
Toluene*	<0.050	0.050	10/23/2023	ND	2.04	102	2.00	5.61	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.98	99.1	2.00	3.53	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.92	98.7	6.00	5.28	
Total BTEX	<0.300	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/23/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	180	90.2	200	2.17	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	196	98.0	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/19/2023	Sampling Date:	10/19/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	MCA - 151	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03256	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SB - 10 (0-.5') (H235740-17)**

BTEX 8021B		mg/kg		Analyzed By: AW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/23/2023	ND	2.08	104	2.00	2.05		
Toluene*	<0.050	0.050	10/23/2023	ND	2.04	102	2.00	5.61		
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.98	99.1	2.00	3.53		
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.92	98.7	6.00	5.28		
Total BTEX	<0.300	0.300	10/23/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/23/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	180	90.2	200	2.17		
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	196	98.0	200	2.53		
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND						

Surrogate: 1-Chlorooctane 93.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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:	10/19/2023	Sampling Date:	10/19/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	MCA - 151	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03256	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SB - 10 (.5-1') (H235740-18)**

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	2.08	104	2.00	2.05	
Toluene*	<0.050	0.050	10/23/2023	ND	2.04	102	2.00	5.61	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.98	99.1	2.00	3.53	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.92	98.7	6.00	5.28	
Total BTEX	<0.300	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/23/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	180	90.2	200	2.17	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	196	98.0	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 128 % 48.2-134

Surrogate: 1-Chlorooctadecane 141 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/19/2023	Sampling Date:	10/19/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	MCA - 151	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03256	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SB - 11 (0-.5') (H235740-19)**

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	2.08	104	2.00	2.05	
Toluene*	<0.050	0.050	10/23/2023	ND	2.04	102	2.00	5.61	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.98	99.1	2.00	3.53	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.92	98.7	6.00	5.28	
Total BTEX	<0.300	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/23/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	180	90.2	200	2.17	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	196	98.0	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 99.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/19/2023	Sampling Date:	10/19/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	MCA - 151	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03256	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SB - 11 (.5-1') (H235740-20)**

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	2.08	104	2.00	2.05	
Toluene*	<0.050	0.050	10/23/2023	ND	2.04	102	2.00	5.61	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.98	99.1	2.00	3.53	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.92	98.7	6.00	5.28	
Total BTEX	<0.300	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/23/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	180	90.2	200	2.17	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	196	98.0	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 89.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/19/2023	Sampling Date:	10/19/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	MCA - 151	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03256	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SB - 2 (0-.5') (H235740-21)**

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	2.08	104	2.00	2.05	
Toluene*	<0.050	0.050	10/23/2023	ND	2.04	102	2.00	5.61	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.98	99.1	2.00	3.53	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.92	98.7	6.00	5.28	
Total BTEX	<0.300	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	10/23/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<50.0	50.0	10/23/2023	ND	180	90.2	200	2.17		
<b>DRO &gt;C10-C28*</b>	<b>22100</b>	50.0	10/23/2023	ND	196	98.0	200	2.53		
<b>EXT DRO &gt;C28-C36</b>	<b>9450</b>	50.0	10/23/2023	ND						

Surrogate: 1-Chlorooctane 83.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 684 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/19/2023	Sampling Date:	10/19/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	MCA - 151	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03256	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SB - 2 (.5-1') (H235740-22)**

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.95	97.4	2.00	2.84	
<b>Toluene*</b>	<b>0.181</b>	0.050	10/23/2023	ND	2.00	100	2.00	2.45	
<b>Ethylbenzene*</b>	<b>0.180</b>	0.050	10/23/2023	ND	2.01	101	2.00	1.55	
<b>Total Xylenes*</b>	<b>0.387</b>	0.150	10/23/2023	ND	6.10	102	6.00	0.0889	
<b>Total BTEX</b>	<b>0.748</b>	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	10/23/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<50.0	50.0	10/23/2023	ND	180	90.2	200	2.17		
<b>DRO &gt;C10-C28*</b>	<b>14700</b>	50.0	10/23/2023	ND	196	98.0	200	2.53		
<b>EXT DRO &gt;C28-C36</b>	<b>7230</b>	50.0	10/23/2023	ND						

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 369 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/19/2023	Sampling Date:	10/19/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	MCA - 151	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03256	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SB -2 (1-2') (H235740-23)**

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.95	97.4	2.00	2.84	
Toluene*	<0.050	0.050	10/23/2023	ND	2.00	100	2.00	2.45	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	2.01	101	2.00	1.55	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	6.10	102	6.00	0.0889	
Total BTEX	<0.300	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	10/23/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<50.0	50.0	10/23/2023	ND	180	89.9	200	0.633		
<b>DRO &gt;C10-C28*</b>	<b>10900</b>	50.0	10/23/2023	ND	182	91.2	200	2.74	QM-07	
<b>EXT DRO &gt;C28-C36</b>	<b>5830</b>	50.0	10/23/2023	ND						

Surrogate: 1-Chlorooctane 69.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 301 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/19/2023	Sampling Date:	10/19/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	MCA - 151	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03256	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SB -2 (2-3') (H235740-24)**

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.95	97.4	2.00	2.84	
Toluene*	<0.050	0.050	10/23/2023	ND	2.00	100	2.00	2.45	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	2.01	101	2.00	1.55	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	6.10	102	6.00	0.0889	
Total BTEX	<0.300	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/23/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<50.0	50.0	10/23/2023	ND	180	89.9	200	0.633		
<b>DRO &gt;C10-C28*</b>	<b>9660</b>	50.0	10/23/2023	ND	182	91.2	200	2.74		
<b>EXT DRO &gt;C28-C36</b>	<b>4780</b>	50.0	10/23/2023	ND						

Surrogate: 1-Chlorooctane 69.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 194 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/19/2023	Sampling Date:	10/19/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	MCA - 151	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03256	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SB -2 (3-4') (H235740-25)**

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.95	97.4	2.00	2.84	
Toluene*	<0.050	0.050	10/23/2023	ND	2.00	100	2.00	2.45	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	2.01	101	2.00	1.55	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	6.10	102	6.00	0.0889	
Total BTEX	<0.300	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>16.0</b>	16.0	10/23/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<50.0	50.0	10/23/2023	ND	180	89.9	200	0.633		
<b>DRO &gt;C10-C28*</b>	<b>5550</b>	50.0	10/23/2023	ND	182	91.2	200	2.74		
<b>EXT DRO &gt;C28-C36</b>	<b>3200</b>	50.0	10/23/2023	ND						

Surrogate: 1-Chlorooctane 73.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 165 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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:	10/19/2023	Sampling Date:	10/19/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	MCA - 151	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03256	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SB - 12 (0-.5') (H235740-26)**

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>23.7</b>	2.00	10/23/2023	ND	1.95	97.4	2.00	2.84	
<b>Toluene*</b>	<b>178</b>	2.00	10/23/2023	ND	2.00	100	2.00	2.45	
<b>Ethylbenzene*</b>	<b>149</b>	2.00	10/23/2023	ND	2.01	101	2.00	1.55	
<b>Total Xylenes*</b>	<b>237</b>	6.00	10/23/2023	ND	6.10	102	6.00	0.0889	
<b>Total BTEX</b>	<b>587</b>	12.0	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 129 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>3200</b>	16.0	10/23/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>8180</b>	50.0	10/23/2023	ND	180	89.9	200	0.633		
<b>DRO &gt;C10-C28*</b>	<b>25800</b>	50.0	10/23/2023	ND	182	91.2	200	2.74		
<b>EXT DRO &gt;C28-C36</b>	<b>5430</b>	50.0	10/23/2023	ND						

Surrogate: 1-Chlorooctane 672 % 48.2-134

Surrogate: 1-Chlorooctadecane 451 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/19/2023	Sampling Date:	10/19/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	MCA - 151	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03256	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SB - 12 (.5-1') (H235740-27)**

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>13.9</b>	2.00	10/23/2023	ND	1.95	97.4	2.00	2.84	
<b>Toluene*</b>	<b>168</b>	2.00	10/23/2023	ND	2.00	100	2.00	2.45	
<b>Ethylbenzene*</b>	<b>143</b>	2.00	10/23/2023	ND	2.01	101	2.00	1.55	
<b>Total Xylenes*</b>	<b>215</b>	6.00	10/23/2023	ND	6.10	102	6.00	0.0889	
<b>Total BTEX</b>	<b>541</b>	12.0	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1710</b>	16.0	10/23/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>6940</b>	50.0	10/23/2023	ND	180	89.9	200	0.633		
<b>DRO &gt;C10-C28*</b>	<b>14300</b>	50.0	10/23/2023	ND	182	91.2	200	2.74		
<b>EXT DRO &gt;C28-C36</b>	<b>2830</b>	50.0	10/23/2023	ND						

Surrogate: 1-Chlorooctane 405 % 48.2-134

Surrogate: 1-Chlorooctadecane 252 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/19/2023	Sampling Date:	10/19/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	MCA - 151	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03256	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SB - 12 (1-2') (H235740-28)**

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>6.50</b>	2.00	10/23/2023	ND	1.95	97.4	2.00	2.84	
<b>Toluene*</b>	<b>89.2</b>	2.00	10/23/2023	ND	2.00	100	2.00	2.45	
<b>Ethylbenzene*</b>	<b>83.1</b>	2.00	10/23/2023	ND	2.01	101	2.00	1.55	
<b>Total Xylenes*</b>	<b>134</b>	6.00	10/23/2023	ND	6.10	102	6.00	0.0889	
<b>Total BTEX</b>	<b>313</b>	12.0	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>2200</b>	16.0	10/23/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>3610</b>	50.0	10/23/2023	ND	180	89.9	200	0.633		
<b>DRO &gt;C10-C28*</b>	<b>8490</b>	50.0	10/23/2023	ND	182	91.2	200	2.74		
<b>EXT DRO &gt;C28-C36</b>	<b>1550</b>	50.0	10/23/2023	ND						

Surrogate: 1-Chlorooctane 246 % 48.2-134

Surrogate: 1-Chlorooctadecane 152 % 49.1-148

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**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/19/2023	Sampling Date:	10/19/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	MCA - 151	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03256	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SB - 12 (2-3') (H235740-29)**

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>1.88</b>	0.500	10/23/2023	ND	1.95	97.4	2.00	2.84	
<b>Toluene*</b>	<b>38.3</b>	0.500	10/23/2023	ND	2.00	100	2.00	2.45	
<b>Ethylbenzene*</b>	<b>40.1</b>	0.500	10/23/2023	ND	2.01	101	2.00	1.55	
<b>Total Xylenes*</b>	<b>66.9</b>	1.50	10/23/2023	ND	6.10	102	6.00	0.0889	
<b>Total BTEX</b>	<b>147</b>	3.00	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 134 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>5360</b>	16.0	10/23/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>1390</b>	50.0	10/23/2023	ND	180	89.9	200	0.633		
<b>DRO &gt;C10-C28*</b>	<b>3690</b>	50.0	10/23/2023	ND	182	91.2	200	2.74		
<b>EXT DRO &gt;C28-C36</b>	<b>555</b>	50.0	10/23/2023	ND						

Surrogate: 1-Chlorooctane 143 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/19/2023	Sampling Date:	10/19/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	MCA - 151	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03256	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SB - 12 (3-4') (H235740-30)**

BTEX 8021B		mg/kg		Analyzed By: AW					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>1.53</b>	0.200	10/24/2023	ND	1.95	97.4	2.00	2.84		
<b>Toluene*</b>	<b>19.9</b>	0.200	10/24/2023	ND	2.00	100	2.00	2.45		
<b>Ethylbenzene*</b>	<b>22.4</b>	0.200	10/24/2023	ND	2.01	101	2.00	1.55		
<b>Total Xylenes*</b>	<b>38.1</b>	0.600	10/24/2023	ND	6.10	102	6.00	0.0889		
<b>Total BTEX</b>	<b>81.9</b>	1.20	10/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 167 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>4880</b>	16.0	10/23/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>2260</b>	50.0	10/23/2023	ND	180	89.9	200	0.633		
<b>DRO &gt;C10-C28*</b>	<b>6770</b>	50.0	10/23/2023	ND	182	91.2	200	2.74		
<b>EXT DRO &gt;C28-C36</b>	<b>1070</b>	50.0	10/23/2023	ND						

Surrogate: 1-Chlorooctane 188 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/19/2023	Sampling Date:	10/19/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	MCA - 151	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03256	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SB - 13 (0-.5') (H235740-31)**

BTEX 8021B		mg/kg		Analyzed By: AW				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	10/23/2023	ND	1.95	97.4	2.00	2.84	
<b>Toluene*</b>	<b>9.68</b>	0.500	10/23/2023	ND	2.00	100	2.00	2.45	
<b>Ethylbenzene*</b>	<b>41.0</b>	0.500	10/23/2023	ND	2.01	101	2.00	1.55	
<b>Total Xylenes*</b>	<b>81.3</b>	1.50	10/23/2023	ND	6.10	102	6.00	0.0889	
<b>Total BTEX</b>	<b>132</b>	3.00	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 171 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>96.0</b>	16.0	10/23/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>2560</b>	50.0	10/23/2023	ND	180	89.9	200	0.633	
<b>DRO &gt;C10-C28*</b>	<b>15300</b>	50.0	10/23/2023	ND	182	91.2	200	2.74	
<b>EXT DRO &gt;C28-C36</b>	<b>2970</b>	50.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 387 % 48.2-134

Surrogate: 1-Chlorooctadecane 276 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/19/2023	Sampling Date:	10/19/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	MCA - 151	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03256	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SB - 13 (.5-1') (H235740-32)**

BTEX 8021B		mg/kg		Analyzed By: AW				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/24/2023	ND	1.95	97.4	2.00	2.84	
<b>Toluene*</b>	<b>0.455</b>	0.050	10/24/2023	ND	2.00	100	2.00	2.45	
<b>Ethylbenzene*</b>	<b>2.14</b>	0.050	10/24/2023	ND	2.01	101	2.00	1.55	
<b>Total Xylenes*</b>	<b>4.89</b>	0.150	10/24/2023	ND	6.10	102	6.00	0.0889	
<b>Total BTEX</b>	<b>7.48</b>	0.300	10/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 191 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>128</b>	16.0	10/23/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>229</b>	10.0	10/23/2023	ND	180	89.9	200	0.633	
<b>DRO &gt;C10-C28*</b>	<b>2300</b>	10.0	10/23/2023	ND	182	91.2	200	2.74	
<b>EXT DRO &gt;C28-C36</b>	<b>469</b>	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 90.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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:	10/19/2023	Sampling Date:	10/19/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	MCA - 151	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03256	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SB - 13 (1-2') (H235740-33)**

BTEX 8021B		mg/kg		Analyzed By: AW					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/24/2023	ND	1.95	97.4	2.00	2.84		
Toluene*	<0.050	0.050	10/24/2023	ND	2.00	100	2.00	2.45		
<b>Ethylbenzene*</b>	<b>0.147</b>	0.050	10/24/2023	ND	2.01	101	2.00	1.55		
<b>Total Xylenes*</b>	<b>0.696</b>	0.150	10/24/2023	ND	6.10	102	6.00	0.0889		
<b>Total BTEX</b>	<b>0.843</b>	0.300	10/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 135 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>256</b>	16.0	10/23/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>26.9</b>	10.0	10/23/2023	ND	180	89.9	200	0.633		
<b>DRO &gt;C10-C28*</b>	<b>706</b>	10.0	10/23/2023	ND	182	91.2	200	2.74		
<b>EXT DRO &gt;C28-C36</b>	<b>155</b>	10.0	10/23/2023	ND						

Surrogate: 1-Chlorooctane 82.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/19/2023	Sampling Date:	10/19/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	MCA - 151	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03256	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SB - 13 (2-3') (H235740-34)**

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/24/2023	ND	1.95	97.4	2.00	2.84	
Toluene*	<0.050	0.050	10/24/2023	ND	2.00	100	2.00	2.45	
<b>Ethylbenzene*</b>	<b>0.093</b>	0.050	10/24/2023	ND	2.01	101	2.00	1.55	
<b>Total Xylenes*</b>	<b>0.267</b>	0.150	10/24/2023	ND	6.10	102	6.00	0.0889	
<b>Total BTEX</b>	<b>0.360</b>	0.300	10/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1800</b>	16.0	10/23/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	180	89.9	200	0.633	
<b>DRO &gt;C10-C28*</b>	<b>421</b>	10.0	10/23/2023	ND	182	91.2	200	2.74	
<b>EXT DRO &gt;C28-C36</b>	<b>89.8</b>	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 82.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/19/2023	Sampling Date:	10/19/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	MCA - 151	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03256	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SB - 13 (3-4') (H235740-35)**

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.95	97.4	2.00	2.84	
Toluene*	<0.050	0.050	10/23/2023	ND	2.00	100	2.00	2.45	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	2.01	101	2.00	1.55	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	6.10	102	6.00	0.0889	
Total BTEX	<0.300	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1710</b>	16.0	10/23/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	180	89.9	200	0.633	
<b>DRO &gt;C10-C28*</b>	<b>501</b>	10.0	10/23/2023	ND	182	91.2	200	2.74	
<b>EXT DRO &gt;C28-C36</b>	<b>107</b>	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 78.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/19/2023	Sampling Date:	10/19/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	MCA - 151	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03256	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SB - 14 (0-.5') (H235740-36)**

BTEX 8021B		mg/kg		Analyzed By: AW					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>0.120</b>	0.100	10/24/2023	ND	1.95	97.4	2.00	2.84		
<b>Toluene*</b>	<b>2.74</b>	0.100	10/24/2023	ND	2.00	100	2.00	2.45		
<b>Ethylbenzene*</b>	<b>11.2</b>	0.100	10/24/2023	ND	2.01	101	2.00	1.55		
<b>Total Xylenes*</b>	<b>29.9</b>	0.300	10/24/2023	ND	6.10	102	6.00	0.0889		
<b>Total BTEX</b>	<b>44.0</b>	0.600	10/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 253 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>2400</b>	16.0	10/23/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>1200</b>	50.0	10/23/2023	ND	180	89.9	200	0.633		
<b>DRO &gt;C10-C28*</b>	<b>12400</b>	50.0	10/23/2023	ND	182	91.2	200	2.74		
<b>EXT DRO &gt;C28-C36</b>	<b>2410</b>	50.0	10/23/2023	ND						

Surrogate: 1-Chlorooctane 255 % 48.2-134

Surrogate: 1-Chlorooctadecane 235 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/19/2023	Sampling Date:	10/19/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	MCA - 151	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03256	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SB - 14 (.5-1') (H235740-37)**

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.95	97.4	2.00	2.84	
Toluene*	<0.050	0.050	10/23/2023	ND	2.00	100	2.00	2.45	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	2.01	101	2.00	1.55	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	6.10	102	6.00	0.0889	
Total BTEX	<0.300	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1960</b>	16.0	10/23/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	180	89.9	200	0.633	
<b>DRO &gt;C10-C28*</b>	<b>145</b>	10.0	10/23/2023	ND	182	91.2	200	2.74	
<b>EXT DRO &gt;C28-C36</b>	<b>23.5</b>	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 76.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/19/2023	Sampling Date:	10/19/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	MCA - 151	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03256	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SB - 14 (1-2') (H235740-38)**

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.95	97.4	2.00	2.84	
<b>Toluene*</b>	<b>0.085</b>	0.050	10/23/2023	ND	2.00	100	2.00	2.45	
<b>Ethylbenzene*</b>	<b>0.058</b>	0.050	10/23/2023	ND	2.01	101	2.00	1.55	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	6.10	102	6.00	0.0889	
Total BTEX	<0.300	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>496</b>	16.0	10/23/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	180	89.9	200	0.633	
<b>DRO &gt;C10-C28*</b>	<b>34.8</b>	10.0	10/23/2023	ND	182	91.2	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 72.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/19/2023	Sampling Date:	10/19/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	MCA - 151	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03256	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SB - 14 (2-3') (H235740-39)**

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.95	97.4	2.00	2.84	
Toluene*	<0.050	0.050	10/23/2023	ND	2.00	100	2.00	2.45	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	2.01	101	2.00	1.55	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	6.10	102	6.00	0.0889	
Total BTEX	<0.300	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>576</b>	16.0	10/23/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	180	89.9	200	0.633	
<b>DRO &gt;C10-C28*</b>	<b>80.3</b>	10.0	10/23/2023	ND	182	91.2	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 81.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/19/2023	Sampling Date:	10/19/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	MCA - 151	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03256	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SB - 14 (3-4') (H235740-40)**

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.95	97.4	2.00	2.84	
Toluene*	<0.050	0.050	10/23/2023	ND	2.00	100	2.00	2.45	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	2.01	101	2.00	1.55	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	6.10	102	6.00	0.0889	
Total BTEX	<0.300	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	650	16.0	10/23/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	180	89.9	200	0.633	
DRO >C10-C28*	496	10.0	10/23/2023	ND	182	91.2	200	2.74	
EXT DRO >C28-C36	103	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 80.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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:	10/19/2023	Sampling Date:	10/19/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	MCA - 151	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03256	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SB - 15 (0-.5') (H235740-41)**

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	10/23/2023	ND	1.95	97.4	2.00	2.84	
<b>Toluene*</b>	<b>13.1</b>	2.00	10/23/2023	ND	2.00	100	2.00	2.45	
<b>Ethylbenzene*</b>	<b>27.6</b>	2.00	10/23/2023	ND	2.01	101	2.00	1.55	
<b>Total Xylenes*</b>	<b>66.0</b>	6.00	10/23/2023	ND	6.10	102	6.00	0.0889	
<b>Total BTEX</b>	<b>107</b>	12.0	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>2160</b>	16.0	10/23/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>2820</b>	50.0	10/23/2023	ND	180	89.9	200	0.633		
<b>DRO &gt;C10-C28*</b>	<b>31500</b>	50.0	10/23/2023	ND	182	91.2	200	2.74		
<b>EXT DRO &gt;C28-C36</b>	<b>6080</b>	50.0	10/23/2023	ND						

Surrogate: 1-Chlorooctane 643 % 48.2-134

Surrogate: 1-Chlorooctadecane 560 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/19/2023	Sampling Date:	10/19/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	MCA - 151	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03256	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SB - 15 (.5-1') (H235740-42)**

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>2.93</b>	2.00	10/23/2023	ND	2.15	107	2.00	0.974	QM-07
<b>Toluene*</b>	<b>13.0</b>	2.00	10/23/2023	ND	2.16	108	2.00	5.19	QM-07
<b>Ethylbenzene*</b>	<b>23.6</b>	2.00	10/23/2023	ND	2.22	111	2.00	3.28	
<b>Total Xylenes*</b>	<b>58.5</b>	6.00	10/23/2023	ND	6.41	107	6.00	4.45	QM-07
<b>Total BTEX</b>	<b>98.1</b>	12.0	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>2160</b>	16.0	10/23/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>2600</b>	50.0	10/23/2023	ND	180	89.9	200	0.633		
<b>DRO &gt;C10-C28*</b>	<b>30500</b>	50.0	10/23/2023	ND	182	91.2	200	2.74		
<b>EXT DRO &gt;C28-C36</b>	<b>5830</b>	50.0	10/23/2023	ND						

Surrogate: 1-Chlorooctane 612 % 48.2-134

Surrogate: 1-Chlorooctadecane 560 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/19/2023	Sampling Date:	10/19/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	MCA - 151	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03256	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SB - 15 (1-2') (H235740-43)**

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	10/23/2023	ND	2.15	107	2.00	0.974	
<b>Toluene*</b>	<b>2.35</b>	0.500	10/23/2023	ND	2.16	108	2.00	5.19	
<b>Ethylbenzene*</b>	<b>5.79</b>	0.500	10/23/2023	ND	2.22	111	2.00	3.28	
<b>Total Xylenes*</b>	<b>18.3</b>	1.50	10/23/2023	ND	6.41	107	6.00	4.45	
<b>Total BTEX</b>	<b>26.4</b>	3.00	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 132 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1640</b>	16.0	10/23/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>1300</b>	50.0	10/23/2023	ND	220	110	200	1.73	QM-07	
<b>DRO &gt;C10-C28*</b>	<b>12600</b>	50.0	10/23/2023	ND	209	104	200	3.87	QM-07	
<b>EXT DRO &gt;C28-C36</b>	<b>1980</b>	50.0	10/23/2023	ND						

Surrogate: 1-Chlorooctane 149 % 48.2-134

Surrogate: 1-Chlorooctadecane 304 % 49.1-148

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**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/19/2023	Sampling Date:	10/19/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	MCA - 151	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03256	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SB - 15 (2-3') (H235740-44)**

BTEX 8021B		mg/kg		Analyzed By: AW				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	10/23/2023	ND	2.15	107	2.00	0.974	
<b>Toluene*</b>	<b>1.65</b>	0.200	10/23/2023	ND	2.16	108	2.00	5.19	
<b>Ethylbenzene*</b>	<b>8.36</b>	0.200	10/23/2023	ND	2.22	111	2.00	3.28	
<b>Total Xylenes*</b>	<b>16.6</b>	0.600	10/23/2023	ND	6.41	107	6.00	4.45	
<b>Total BTEX</b>	<b>26.6</b>	1.20	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 157 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>288</b>	16.0	10/23/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>366</b>	50.0	10/23/2023	ND	220	110	200	1.73	
<b>DRO &gt;C10-C28*</b>	<b>3020</b>	50.0	10/23/2023	ND	209	104	200	3.87	
<b>EXT DRO &gt;C28-C36</b>	<b>587</b>	50.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 129 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/19/2023	Sampling Date:	10/19/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	MCA - 151	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03256	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SB - 15 (3-4') (H235740-45)**

BTEX 8021B		mg/kg		Analyzed By: AW				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	2.15	107	2.00	0.974	
Toluene*	<0.050	0.050	10/23/2023	ND	2.16	108	2.00	5.19	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	2.22	111	2.00	3.28	
<b>Total Xylenes*</b>	<b>2.33</b>	0.150	10/23/2023	ND	6.41	107	6.00	4.45	
<b>Total BTEX</b>	<b>2.33</b>	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 151 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>656</b>	16.0	10/23/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>68.8</b>	10.0	10/23/2023	ND	220	110	200	1.73	
<b>DRO &gt;C10-C28*</b>	<b>832</b>	10.0	10/23/2023	ND	209	104	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 97.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/19/2023	Sampling Date:	10/19/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	MCA - 151	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03256	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SB - 16 (0-.5') (H235740-46)**

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	2.15	107	2.00	0.974	
Toluene*	<0.050	0.050	10/23/2023	ND	2.16	108	2.00	5.19	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	2.22	111	2.00	3.28	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	6.41	107	6.00	4.45	
Total BTEX	<0.300	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 134 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	10/23/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	220	110	200	1.73	
<b>DRO &gt;C10-C28*</b>	<b>1810</b>	10.0	10/23/2023	ND	209	104	200	3.87	
<b>EXT DRO &gt;C28-C36</b>	<b>329</b>	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/19/2023	Sampling Date:	10/19/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	MCA - 151	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03256	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SB - 16 (.5-1') (H235740-47)**

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	2.15	107	2.00	0.974	
<b>Toluene*</b>	<b>0.194</b>	0.050	10/23/2023	ND	2.16	108	2.00	5.19	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	2.22	111	2.00	3.28	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	6.41	107	6.00	4.45	
Total BTEX	<0.300	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	10/23/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	220	110	200	1.73	
<b>DRO &gt;C10-C28*</b>	<b>211</b>	10.0	10/23/2023	ND	209	104	200	3.87	
<b>EXT DRO &gt;C28-C36</b>	<b>59.9</b>	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 89.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/19/2023	Sampling Date:	10/19/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	MCA - 151	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03256	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SB - 16 (1-2') (H235740-48)**

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	2.15	107	2.00	0.974	
Toluene*	<0.050	0.050	10/23/2023	ND	2.16	108	2.00	5.19	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	2.22	111	2.00	3.28	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	6.41	107	6.00	4.45	
Total BTEX	<0.300	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	10/23/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	220	110	200	1.73	
<b>DRO &gt;C10-C28*</b>	<b>165</b>	10.0	10/23/2023	ND	209	104	200	3.87	
<b>EXT DRO &gt;C28-C36</b>	<b>31.8</b>	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 98.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.3 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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:	10/19/2023	Sampling Date:	10/19/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	MCA - 151	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03256	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SB - 16 (2-3') (H235740-49)**

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	2.15	107	2.00	0.974	
Toluene*	<0.050	0.050	10/23/2023	ND	2.16	108	2.00	5.19	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	2.22	111	2.00	3.28	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	6.41	107	6.00	4.45	
Total BTEX	<0.300	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	10/23/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	220	110	200	1.73	
<b>DRO &gt;C10-C28*</b>	<b>21.7</b>	10.0	10/23/2023	ND	209	104	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 95.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.7 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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:	10/19/2023	Sampling Date:	10/19/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	MCA - 151	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03256	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SB - 16 (3-4') (H235740-50)**

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	2.15	107	2.00	0.974	
Toluene*	<0.050	0.050	10/23/2023	ND	2.16	108	2.00	5.19	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	2.22	111	2.00	3.28	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	6.41	107	6.00	4.45	
Total BTEX	<0.300	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/23/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	220	110	200	1.73	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	209	104	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 95.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.7 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Custody Record



**Tetra Tech, Inc.**

901 W. Wall Street, Suite 100  
Midland, Texas 79701  
Tel (432) 682-4559  
Fax (432) 582-3946

Client Name: **Maverick Natural Resources** Site Manager: **Chuck Terhune**

Project Name: **MCA-151** Project #: **281-755-8965**

Project Location: **Lea County, NM** Project #: **212C-MD-03256**

Invoice to: **Attn: Chuck Terhune**

Receiving Laboratory: **Cardinal Labs** Sampler Signature: **Jorge Fernandez**

Comments:

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX				PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)
		YEAR: 2023	DATE	TIME	WATER	SOIL	HCL			
1	SB-1 (0-5)		10/19/2023		X			X		
2	SB-1 (5-1)		10/19/2023		X			X		
3	SB-3 (0-5)		10/19/2023		X			X		
4	SB-3 (5-1)		10/19/2023		X			X		
5	SB-4 (0-5)		10/19/2023		X			X		
6	SB-4 (5-1)		10/19/2023		X			X		
7	SB-5 (0-5)		10/19/2023		X			X		
8	SB-5 (5-1)		10/19/2023		X			X		
9	SB-6 (0-5)		10/19/2023		X			X		
10	SB-6 (5-1)		10/19/2023		X			X		

Relinquished by: *[Signature]* Date: **10-19-23** Time: **10:18**

Relinquished by: *[Signature]* Date: **10-19-23** Time: **10:19**

Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

**ANALYSIS REQUEST**  
(Circle or Specify Method No.)

<input checked="" type="checkbox"/>	BTEX 8021B
<input checked="" type="checkbox"/>	BTEX 8260B
<input checked="" type="checkbox"/>	TPH TX1005 (Ext to C35)
<input checked="" type="checkbox"/>	TPH 8015M (GRO - DRO - ORO - MRO)
<input type="checkbox"/>	PAH 8270C
<input type="checkbox"/>	Total Metals Ag As Ba Cd Cr Pb Se Hg
<input type="checkbox"/>	TCLP Metals Ag As Ba Cd Cr Pb Se Hg
<input type="checkbox"/>	TCLP Volatiles
<input type="checkbox"/>	TCLP Semi Volatiles
<input type="checkbox"/>	RCI
<input type="checkbox"/>	GC/MS Vol. 8260B / 624
<input type="checkbox"/>	GC/MS Semi. Vol. 8270C/625
<input type="checkbox"/>	PCB's 8082 / 608
<input type="checkbox"/>	NORM
<input type="checkbox"/>	PLM (Asbestos)
<input type="checkbox"/>	Chloride
<input type="checkbox"/>	Chloride Sulfate TDS
<input type="checkbox"/>	General Water Chemistry (see attached list)
<input type="checkbox"/>	Anion/Cation Balance
<input type="checkbox"/>	Hold

LAB USE ONLY

REMARKS: Standard TAT

RUSH: Same Day 24 hr 48 hr 72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

Sample Temperature: **5.3**

Handwritten: **#1440**

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking # \_\_\_\_\_

Analysis Request of Custody Record



# Tetra Tech, Inc.

901 W Wall Street, Ste 100  
Midland, Texas 79701  
Tel (432) 682-4559  
Fax (432) 682-3946

Client Name: Maverick Natural Resources

Site Manager: Chuck Terhune

281-755-8965

Project Name: MCA-151

chuck.terhune@tetratech.com

Project Location: Lea County, NM

Project #: 212C-MD-03256

Invoice to: Attn: Chuck Terhune

Receiving Laboratory: Cardinal Labs

Sampler Signature: Jorge Fernandez

Comments:

### SAMPLE IDENTIFICATION

LAB # H235740  
(LAB USE ONLY)

LAB #	SAMPLE IDENTIFICATION	SAMPLING		MATRIX					# CONTAINERS	FILTERED (Y/N)
		DATE	TIME	WATER	SOIL	HCL	HNO <sub>3</sub>	ICE		
11	SB-7 (0-5')	10/19/2023		X				X		
18	SB-7 (.5-1')	10/19/2023		X				X		
13	SB-8 (0-5')	10/19/2023		X				X		
14	SB-8 (.5-1')	10/19/2023		X				X		
15	SB-9 (0-5')	10/19/2023		X				X		
16	SB-9 (.5-1')	10/19/2023		X				X		
17	SB-10 (0-5')	10/19/2023		X				X		
18	SB-10 (.5-1')	10/19/2023		X				X		
19	SB-11 (0-5')	10/19/2023		X				X		
20	SB-11 (.5-1')	10/19/2023		X				X		

Relinquished by: [Signature] Date: 10-16-23 Time: 1:40 PM

Received by: [Signature] Date: 10-19-23 Time: 10:19 AM

Relinquished by: [Signature] Date: [ ] Time: [ ]

Received by: [Signature] Date: [ ] Time: [ ]

Relinquished by: [Signature] Date: [ ] Time: [ ]

Received by: [Signature] Date: [ ] Time: [ ]

### ANALYSIS REQUEST (Circle or Specify Method No.)

<input checked="" type="checkbox"/>	BTEX 8021B
<input checked="" type="checkbox"/>	BTEX 8260B
<input checked="" type="checkbox"/>	TPH TX1005 (Ext to C35)
<input checked="" type="checkbox"/>	TPH 8015M (GRO - DRO - ORO - MRO)
<input checked="" type="checkbox"/>	PAH 8270C
<input checked="" type="checkbox"/>	Total Metals Ag As Ba Cd Cr Pb Se Hg
<input checked="" type="checkbox"/>	TCLP Metals Ag As Ba Cd Cr Pb Se Hg
<input checked="" type="checkbox"/>	TCLP Volatiles
<input checked="" type="checkbox"/>	TCLP Semi Volatiles
<input checked="" type="checkbox"/>	RCI
<input checked="" type="checkbox"/>	GC/MS Vol. 8260B / 624
<input checked="" type="checkbox"/>	GC/MS Semi. Vol. 8270C/625
<input checked="" type="checkbox"/>	PCB's 8082 / 608
<input checked="" type="checkbox"/>	NORM
<input checked="" type="checkbox"/>	PLM (Asbestos)
<input checked="" type="checkbox"/>	Chloride
<input checked="" type="checkbox"/>	Chloride Sulfate TDS
<input checked="" type="checkbox"/>	General Water Chemistry (see attached list)
<input checked="" type="checkbox"/>	Anion/Cation Balance
<input checked="" type="checkbox"/>	Hold

LAB USE ONLY

REMARKS: Standard TAT

Sample Temperature

5-3°C

- RUSH: Same Day 24 hr 48 hr 72 hr
- Rush Charges Authorized
- Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

#140

ORIGINAL COPY

Analysis Request of Custody Record



# Tetra Tech, Inc.

901 W Wall Street, Ste 100  
Midland, Texas 79701  
Tel (432) 682-4559  
Fax (432) 682-3946

Client Name: Maverick Natural Resources

Site Manager: Chuck Terhune

Project Name: MCA-151

281-755-8965

[chuck.terhune@tetratech.com](mailto:chuck.terhune@tetratech.com)

Project Location: Lea County, NM

Project #: 212C-MD-03256

Invoice to: Attn: Chuck Terhune

Receiving Laboratory: Cardinal Labs

Sampler Signature: Jorge Fernandez

Comments:

### SAMPLE IDENTIFICATION

LAB # 4335746  
(LAB USE ONLY)

LAB #	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	
		DATE	TIME	WATER	SOIL	HCL	HNO <sub>3</sub>	ICE				
21	SB-2 (0-5)	10/19/2023		X				X				X
22	SB-2 (.5-1)	10/19/2023		X				X				X
23	SB-2 (1-2)	10/19/2023		X				X				X
24	SB-2 (2-3)	10/19/2023		X				X				X
25	SB-2 (3-4)	10/19/2023		X				X				X
26	SB-12 (0-5)	10/19/2023		X				X				X
27	SB-12 (.5-1)	10/19/2023		X				X				X
28	SB-12 (1-2)	10/19/2023		X				X				X
29	SB-12 (2-3)	10/19/2023		X				X				X
30	SB-12 (3-4)	10/19/2023		X				X				X

Relinquished by: [Signature] Date: 10-19-23 Time: 16:18

Relinquished by: [Signature] Date: 10-19-23 Time: 16:18

Relinquished by: [Signature] Date: 10-19-23 Time: 16:18

Received by: [Signature] Date: 10-19-23 Time: 16:18

Received by: [Signature] Date: 10-19-23 Time: 16:18

### ANALYSIS REQUEST (Circle or Specify Method No.)

<input type="checkbox"/>	BTEX 8021B	BTEX 8260B
<input type="checkbox"/>	TPH TX1005 (Ext to C35)	
<input type="checkbox"/>	TPH 8015M (GRO - DRO - ORO - MRO)	
<input type="checkbox"/>	PAH 8270C	
<input type="checkbox"/>	Total Metals Ag As Ba Cd Cr Pb Se Hg	
<input type="checkbox"/>	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
<input type="checkbox"/>	TCLP Volatiles	
<input type="checkbox"/>	TCLP Semi Volatiles	
<input type="checkbox"/>	RCI	
<input type="checkbox"/>	GC/MS Vol. 8260B / 624	
<input type="checkbox"/>	GC/MS Semi. Vol. 8270C/625	
<input type="checkbox"/>	PCB's 8082 / 608	
<input type="checkbox"/>	NORM	
<input type="checkbox"/>	PLM (Asbestos)	
<input type="checkbox"/>	Chloride	
<input type="checkbox"/>	Chloride Sulfate TDS	
<input type="checkbox"/>	General Water Chemistry (see attached list)	
<input type="checkbox"/>	Anion/Cation Balance	
<input type="checkbox"/>	Hold	

LAB USE ONLY

REMARKS: Standard TAT

Sample Temperature

RUSH: Same Day 24 hr 48 hr 72 hr  
 Rush Charges Authorized  
 Special Report Limits or TRRP Report

ORIGINAL COPY

Analysis Request of Chain of Custody Record



# Tetra Tech, Inc.

901 W Wall Street, Ste 100  
Midland, Texas 79701  
Tel (432) 682-4559  
Fax (432) 682-3946

Client Name: **Maverick Natural Resources** Site Manager: **Chuck Terhune**

Project Name: **MCA-151** Project #: **281-755-8965**

Project Location: **Lea County, NM** Project #: **chuck.terhune@tetratech.com**

Invoice to: **Attn: Chuck Terhune** Project #: **212C-MD-03256**

Receiving Laboratory: **Cardinal Labs** Sampler Signature: **Jorge Fernandez**

Comments:

LAB # **H335740**

(LAB USE ONLY)

SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD			# CONTAINERS	FILTERED (Y/N)
	YEAR: 2023	DATE	TIME	WATER	SOIL	HCL	HNO <sub>3</sub>		

31	SB-13 (0-5')	10/19/2023		X		X				
32	SB-13 (.5-1')	10/19/2023		X		X				
33	SB-13 (1-2')	10/19/2023		X		X				
34	SB-13 (2-3')	10/19/2023		X		X				
35	SB-13 (3-4')	10/19/2023		X		X				
36	SB-14 (0-5')	10/19/2023		X		X				
37	SB-14 (.5-1')	10/19/2023		X		X				
38	SB-14 (1-2')	10/19/2023		X		X				
39	SB-14 (2-3')	10/19/2023		X		X				
40	SB-14 (3-4')	10/19/2023		X		X				

Relinquished by: **Lea Terhune** Date: **10-19-23** Time: **16:18**

Relinquished by: **Jorge Fernandez** Date: **10-19-23** Time: **10:19**

Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

### ANALYSIS REQUEST (Circle or Specify Method No.)

<input checked="" type="checkbox"/>	BTEX 8021B
<input checked="" type="checkbox"/>	BTEX 8260B
<input checked="" type="checkbox"/>	TPH TX1005 (Ext to C35)
<input checked="" type="checkbox"/>	TPH 8015M (GRO - DRO - ORO - MRO)
<input checked="" type="checkbox"/>	PAH 8270C
<input checked="" type="checkbox"/>	Total Metals Ag As Ba Cd Cr Pb Se Hg
<input checked="" type="checkbox"/>	TCLP Metals Ag As Ba Cd Cr Pb Se Hg
<input checked="" type="checkbox"/>	TCLP Volatiles
<input checked="" type="checkbox"/>	TCLP Semi Volatiles
<input checked="" type="checkbox"/>	RCI
<input checked="" type="checkbox"/>	GC/MS Vol. 8260B / 624
<input checked="" type="checkbox"/>	GC/MS Semi. Vol. 8270C/625
<input checked="" type="checkbox"/>	PCB's 8082 / 608
<input checked="" type="checkbox"/>	NORM
<input checked="" type="checkbox"/>	PLM (Asbestos)
<input checked="" type="checkbox"/>	Chloride
<input checked="" type="checkbox"/>	Chloride Sulfate TDS
<input checked="" type="checkbox"/>	General Water Chemistry (see attached list)
<input checked="" type="checkbox"/>	Anion/Cation Balance
<input checked="" type="checkbox"/>	Hold

LAB USE ONLY

Sample Temperature

REMARKS: Standard TAT

RUSH: Same Day 24 hr 48 hr 72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

ORIGINAL COPY

Analysis Request of Chain of Custody Record



# Tetra Tech, Inc.

901 W Wall Street, Ste 100  
Midland, Texas 79701  
Tel (432) 682-4559  
Fax (432) 682-3946

Client Name: **Maverick Natural Resources**

Site Manager: **Chuck Terhune**

Project Name: **MCA-151**

281-755-8965  
[chuck.terhune@tetratech.com](mailto:chuck.terhune@tetratech.com)

Project Location: **Lea County, NM**

Project #: **212C-MD-03256**

Invoice to: **Attn: Chuck Terhune**

Receiving Laboratory: **Cardinal Labs**

Sampler Signature: **Jorge Fernandez**

Comments:

**SAMPLE IDENTIFICATION**

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD			# CONTAINERS	FILTERED (Y/N)
		YEAR: 2023	DATE	TIME	WATER	SOIL	HCL	HNO <sub>3</sub>		
41	SB-15 (0-5')		10/19/2023		X				X	
42	SB-15 (.5-1')		10/19/2023		X				X	
43	SB-15 (1-2')		10/19/2023		X				X	
44	SB-15 (2-3')		10/19/2023		X				X	
45	SB-15 (3-4')		10/19/2023		X				X	
46	SB-16 (0-5')		10/19/2023		X				X	
47	SB-16 (.5-1')		10/19/2023		X				X	
48	SB-16 (1-2')		10/19/2023		X				X	
49	SB-16 (2-3')		10/19/2023		X				X	
50	SB-16 (3-4')		10/19/2023		X				X	

Relinquished by: *[Signature]* Date: **10-19-22** Time: **16:18**

Received by: *[Signature]* Date: **10-19-23** Time: **10:19:23**

Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

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

**ANALYSIS REQUEST**  
(Circle or Specify Method No.)

<input type="checkbox"/>	BTEX 8021B	<input type="checkbox"/>	BTEX 8260B
<input type="checkbox"/>	TPH TX1005 (Ext to C35)	<input type="checkbox"/>	
<input type="checkbox"/>	TPH 8015M (GRO - DRO - ORO - MRO)	<input type="checkbox"/>	
<input type="checkbox"/>	PAH 8270C	<input type="checkbox"/>	
<input type="checkbox"/>	Total Metals Ag As Ba Cd Cr Pb Se Hg	<input type="checkbox"/>	
<input type="checkbox"/>	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	<input type="checkbox"/>	
<input type="checkbox"/>	TCLP Volatiles	<input type="checkbox"/>	
<input type="checkbox"/>	TCLP Semi Volatiles	<input type="checkbox"/>	
<input type="checkbox"/>	RCI	<input type="checkbox"/>	
<input type="checkbox"/>	GC/MS Vol. 8260B / 624	<input type="checkbox"/>	
<input type="checkbox"/>	GC/MS Semi. Vol. 8270C/625	<input type="checkbox"/>	
<input type="checkbox"/>	PCB's 8082 / 608	<input type="checkbox"/>	
<input type="checkbox"/>	NORM	<input type="checkbox"/>	
<input type="checkbox"/>	PLM (Asbestos)	<input type="checkbox"/>	
<input type="checkbox"/>	Chloride	<input type="checkbox"/>	
<input type="checkbox"/>	Chloride Sulfate TDS	<input type="checkbox"/>	
<input type="checkbox"/>	General Water Chemistry (see attached list)	<input type="checkbox"/>	
<input type="checkbox"/>	Anion/Cation Balance	<input type="checkbox"/>	
<input type="checkbox"/>	Hold	<input type="checkbox"/>	

LAB USE ONLY

REMARKS: **Standard TAT**

Sample Temperature: **5-8°C**

RUSH: Same Day 24 hr 48 hr 72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

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QUESTIONS

Action 341551

**QUESTIONS**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 341551
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2328619341
Incident Name	NAPP2328619341 MCA UNIT 151 FLOWLINE RELEASE @ 30-025-00739
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-025-00739] MCA UNIT #151

<b>Location of Release Source</b>	
<i>Please answer all the questions in this group.</i>	
Site Name	MCA UNIT 151 FLOWLINE RELEASE
Date Release Discovered	10/08/2023
Surface Owner	Federal

<b>Incident Details</b>	
<i>Please answer all the questions in this group.</i>	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

<b>Nature and Volume of Release</b>	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Cause: Corrosion   Flow Line - Production   Crude Oil   Released: 1 BBL   Recovered: 0 BBL   Lost: 1 BBL.
Produced Water Released (bbls) Details	Cause: Corrosion   Flow Line - Production   Produced Water   Released: 15 BBL   Recovered: 0 BBL   Lost: 15 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	A flowline rupture resulted in the release of 1 bbls of crude oil and 15 bbls of produced water off-pad into open pasture.

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QUESTIONS, Page 2

Action 341551

**QUESTIONS (continued)**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 341551
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>No, according to supplied volumes this does not appear to be a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	<b>No</b>
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>

*With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.*

**Initial Response**

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

The source of the release has been stopped	<b>True</b>
The impacted area has been secured to protect human health and the environment	<b>True</b>
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	<b>True</b>
All free liquids and recoverable materials have been removed and managed appropriately	<b>True</b>
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>

*Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.*

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

I hereby agree and sign off to the above statement	Name: Aimee Cole Email: acole@ensolum.com Date: 05/07/2024
--	--

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**QUESTIONS (continued)**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 341551
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 75 and 100 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Between ½ and 1 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

**Remediation Plan**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

**Soil Contamination Sampling:** (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	5360
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	40400
GRO+DRO (EPA SW-846 Method 8015M)	34320
BTEX (EPA SW-846 Method 8021B or 8260B)	587
Benzene (EPA SW-846 Method 8021B or 8260B)	23.7

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	08/01/2024
On what date will (or did) the final sampling or liner inspection occur	09/01/2024
On what date will (or was) the remediation complete(d)	09/01/2024
What is the estimated surface area (in square feet) that will be reclaimed	13000
What is the estimated volume (in cubic yards) that will be reclaimed	2000
What is the estimated surface area (in square feet) that will be remediated	13000
What is the estimated volume (in cubic yards) that will be remediated	2500

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 341551

**QUESTIONS (continued)**

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	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

**Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

**This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:**

(Select all answers below that apply.)

(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	R360 Artesia LLC LANDFARM [FEEM0112340644]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

I hereby agree and sign off to the above statement	Name: Aimee Cole Email: acole@ensolum.com Date: 05/07/2024
--	--

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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Action 341551

**QUESTIONS (continued)**

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	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

**Deferral Requests Only**

*Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.*

Requesting a deferral of the remediation closure due date with the approval of this submission	No
--	----

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Action 341551

**QUESTIONS (continued)**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 341551
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS  
 Action 341551

**CONDITIONS**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
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	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**CONDITIONS**

Created By	Condition	Condition Date
scwells	Remediation plan approved. Variance to collect floor samples from the excavation every 400 square feet is approved. Sidewall samples will still need to be collected every 200 square feet. Submit remediation closure report to the OCD by 8/11/2024.	5/13/2024
scwells	Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable. Reclamation reports should include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. Pictures of the backfilled areas showing that the area is back to the original condition or the final land use and maintain those areas to control dust/minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	5/13/2024