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## Closure Report

Tenneco SWD Battery  
Lea County, New Mexico  
API # 30-025-25762  
nAPP2226431261

## Prepared For:

EOG Resources Inc.  
104 S. 4<sup>th</sup> Street  
Artesia, NM 88210

## Prepared By:

Talon/LPE  
408 W. Texas Avenue  
Artesia, New Mexico 88210

**October 12, 2022**



Mike Bratcher  
NMOCD  
506 W. Texas  
Artesia, NM 88210

Subject: **Closure Report**  
Tenneco SWD Battery  
Lea County, New Mexico  
API # 30-025-25762  
**nAPP2226431261**

Dear Mr. Bratcher,

EOG Resources contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The incident description, soil sampling results, remedial actions and closure request is presented herein.

### Site Information

The Tenneco SWD Battery is located approximately sixty-one (61) miles east of Artesia, New Mexico. The legal location for this release is Unit Letter P, Section 11, Township 11 South and Range 34 East in Lea County, New Mexico. More specifically the latitude and longitude for the release are 33.376796 and -103.477591. A Site Location Map is presented in [Appendix I](#).

According to NMOCD wellsite information the Tenneco SWD Battery while operated by Yates Petroleum, had a historical release of Produced Water on October 26, 2007. According to the C-141 of record, the volume of release was approximately 100 bbl, and 75 bbl were recovered. The NMOCD assigned this incident **1RP-1659 (Incident NPAC0731936763)**. On October 25, 2021 The NMOCD approved the closure for this incident. The Closure Report for this incident and NMOCD approval are reference in [Appendix VI](#).

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services, the soil in this area is comprised of Portales and Gomez fine sandy loams, with 0 to 3 percent slopes. The referenced soil data is presented in [Appendix II](#). Per the New Mexico Bureau of Geology and Mineral Resources, the local geology consists of the Ogallala Formation, lower Pliocene to Middle Miocene in age, and comprised of Calcareous loamy eolian deposits derived from sedimentary rock. Drainage courses in this area are typically well drained.

### Ground Water and Site Characterization

The New Mexico Office of the State Engineer Database indicates the nearest reported depth to groundwater is 24 feet below ground surface (bgs). See [Appendix II](#) for the referenced groundwater depth. Further research of the Bureau of Land Management Karst data indicates that this site is not situated within a Karst area.

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If a release occurs within the following areas, the responsible party must treat the release as if it occurred in an area where the groundwater is less than 50 feet bgs, Table I, New Mexico Oil Conservation Division (NMOCD) Rule 19.15.29 NMAC.

**Approximate Depth to Groundwater 24 Feet/bgs**

- Yes  No Within 300 feet of any continuously flowing watercourse or any other significant watercourse
- Yes  No Within 200 feet of any lakebed, sinkhole or a playa lake
- Yes  No Within 300 feet from an occupied permanent residence, school, hospital, institution or church
- Yes  No Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes
- Yes  No Within 1000 feet of any freshwater well or spring
- Yes  No Within incorporated municipal boundaries or within a defined municipal freshwater well field covered under a municipal ordinance adopted pursuant to Section 3-2703 NMSA 1978
- Yes  No Within 300 feet of a wetland
- Yes  No Within the area overlying a subsurface mine
- Yes  No Within an unstable area
- Yes  No Within a 100-year floodplain

Because the release occurred on a location where the well is plugged, location is to be reclaimed and is situated in an area with referenced shallow depths to groundwater, the cleanup criteria for the upper 4 feet of this site per NMAC 19.15.29.13.D is as follows:

Depth below horizontal extents of release to ground water less than 10,000 mg/l TDS	Constituent	Method	Limit
≤ 50 feet	Total Chlorides	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

## Incident Description

During routine site clean-up activities and decommissioning of the facility, EOG personnel noted historical staining on the pad area. EOG contracted Talon LPE to assess the area of impact. Due to the size of the impacted area and soil volume calculations, the NMOCD was notified of an incident. The NMOCD issued an incident number of **nAPP2226431261**. The site map is presented in [Appendix I](#).

## Site Assessment

On August 15, 2022 Talon mobilized personnel to the site to conduct an initial site assessment. The impacted area was mapped utilizing a Trimble GEO XH 6000, photographed and soil sampled utilizing a hand auger. All soil samples were properly packaged, preserved, and transported to Cardinal laboratories via chain of custody for analysis of Total Chlorides (Method SM4500Cl-B), TPH (EPA Method 8015M), and BTEX (EPA Method 8021B). Sample locations are shown on the attached Figure 1 ([Appendix I](#)) and the results of our sampling event are presented on the following data table. Initial site assessment done by Talon personnel revealed that approximately 6 inches of the interior containment and infrastructure had been removed by a third-party contractor during decommissioning of the facility.

**Table I**  
**08/15/2022 Soil Sample Laboratory Results**

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Chlorides mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	DRO + GRO + MRO combined = 100 mg/kg			100 mg/kg	600 mg/kg
S-1	8/15/2022	0-1'	ND	ND	ND	ND	ND	-	5160
	8/15/2022	2'	ND	ND	ND	ND	ND	-	1950
	8/15/2022	3'	ND	ND	ND	ND	ND	-	1570
	8/15/2022	4' R	ND	ND	ND	ND	ND	-	1660
S-2	8/15/2022	0-0.5' R	ND	ND	ND	ND	ND	-	2050
S-3	8/15/2022	0-0.5' R	ND	ND	ND	ND	ND	-	9840
S-4	8/15/2022	0-0.5' R	ND	ND	ND	ND	ND	-	10700
S-5	8/15/2022	0-0.5' R	ND	ND	ND	ND	ND	-	1600
S-6	8/15/2022	0-0.5' R	ND	ND	ND	ND	ND	-	80
S-7	8/15/2022	0-0.5' R	ND	ND	ND	ND	ND	-	96
S-8	8/15/2022	0-0.5' R	ND	ND	ND	ND	ND	-	32
S-9	8/15/2022	0'	ND	ND	ND	ND	ND	-	32
S-10	8/15/2022	0'	ND	ND	ND	ND	ND	-	32
S-11	8/15/2022	0'	ND	ND	ND	ND	ND	-	16
S-12	8/15/2022	0'	ND	ND	ND	ND	ND	-	32

ND = Analyte Not Detected    R = Refusal with Hand Auger

See [Appendix IV](#) for the complete report of laboratory results.

On August 26<sup>th</sup> through August 28<sup>th</sup>, 2022 based on the laboratory results from the initial site assessment and upon client authorization, Talon personnel and equipment were mobilized to the site in order to remediate the contaminated area. The excavated area was confirmation sampled, mapped and photo documentation retrieved. Field titration data was used to guide the depths of vertical remediation of all remaining sample positions. Sidewall samples were retrieved in order to confirm horizontal remediation of the impacted area which extended into the pasture area adjacent to the south side of the pad. All soil samples were properly collected and preserved for transport to Cardinal Laboratories for analysis of Total Chloride, BTEX, and TPH analyte levels. The confirmation results from the laboratory are tabulated below. Confirmation sample locations are illustrated on Figure 2 (Appendix I).

**Table II**  
**09/28/22 Soil Sample Laboratory Results**

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Chlorides mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	DRO + GRO + MRO combined = 100 mg/kg			100 mg/kg	600 mg/kg
S.1A	9/28/2022	4'	ND	ND	ND	ND	ND	-	432
S.2A	9/28/2022	4'	ND	ND	ND	ND	ND	-	400
S.3A	9/28/2022	4'	ND	ND	ND	ND	ND	-	384
S.4A	9/28/2022	4'	ND	ND	ND	ND	ND	-	384
S.5A	9/28/2022	3'	ND	ND	ND	36.7	ND	36.7	288
S.6A	9/28/2022	5'	ND	ND	ND	ND	ND	-	400
S.7A	9/28/2022	5'	ND	ND	ND	ND	ND	-	128
S.8A	9/28/2022	5'	ND	ND	ND	ND	ND	-	16
S.9A	9/28/2022	5'	ND	ND	ND	ND	ND	-	ND
S.10A	9/28/2022	5'	ND	ND	ND	ND	ND	-	64
S.11A	9/28/2022	5'	ND	ND	ND	ND	ND	-	416
S.12A	9/28/2022	5'	ND	ND	ND	ND	ND	-	48
S.13A	9/28/2022	5'	ND	ND	ND	ND	ND	-	80
S.14A	9/28/2022	5'	ND	ND	ND	ND	ND	-	64
S.15A	9/28/2022	5'	ND	ND	ND	ND	ND	-	80
S.16A	9/28/2022	5'	ND	ND	ND	ND	ND	-	64
S.17A	9/28/2022	5'	ND	ND	ND	ND	ND	-	64
S.18A	9/28/2022	5'	ND	ND	ND	ND	ND	-	64
SW.1	9/28/2022	5'	ND	ND	ND	ND	ND	-	16
SW.2	9/28/2022	3-5'	ND	ND	ND	ND	ND	-	16
SW.3	9/28/2022	5'	ND	ND	ND	ND	ND	-	16
SW.4	9/28/2022	5'	ND	ND	ND	ND	ND	-	32
ND = Analyte Not Detected SW = Sidewall Sample									

See Appendix IV for the complete report of laboratory results.

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### Remedial Actions

- The impacted pad area was excavated from depths of 3 feet to 5 feet bgs, and to the horizontal extent that all surface staining and hydrocarbon odors were removed. Laboratory analysis confirms that NMOCD closure criteria has been met.
- The impacted pasture area was excavated to depths of 5 feet and confirmation samples taken from the bottom of the excavated area in order to confirm NMOCD clean up criteria had been met.
- Background samples at S-5, S-6, and S-8 as well as sidewall samples at SW.1, SW.2, SW.3 and SW.4 were obtained in order to confirm horizontal remediation had been achieved. Sample positions at S.1A, S.2A, S.4A, S.10A, S.17A, and S.18A were obtained in order to confirm both horizontal and vertical remediation had been achieved.
- The top 4 feet bgs has been reclaimed in accordance with NMOCD 19.15.29.13(D)(1) NMAC.
- All contaminated soil was transported to Gandy Marley, LLC, a NMOCD approved solid waste disposal facility.
- The excavated pad area was backfilled with clean caliche and compacted to grade. The pasture area as denoted on the site map ([Appendix I](#)) was backfilled with clean native topsoil and seeded ([Appendix V](#)) in accordance with NMSLO guidelines.

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### Closure

Based on this site characterization, remedial actions completed, and analytical results, we request that no further actions be required and that closure with regard to this incident be granted.

Should you have any questions or if further information is required, please do not hesitate to contact our office at 575-746-8768.

Respectfully submitted,

Talon/LPE

Rebecca S. Pons  
Senior Environmental Project Manager

Attachments:

- Appendix I Site Plans
- Appendix II Groundwater Data, Soil Survey
- Appendix III Photographic Documentation
- Appendix IV Laboratory Data
- Appendix V Seed Tag
- Appendix VI C-141, NMOCD Correspondence, NPAC0731936763 Closure



## Appendix I

### Site Maps



New Mexico State University, Texas Parks & Wildlife, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA, Maxar



Drafted: 10/12/2022  
 1 in = 12,000 ft  
 Drafted By: JAI

EOG Resources  
 Tenneco CTB  
 Lea County, New Mexico  
 Figure 3 - Location Map



**Legend**

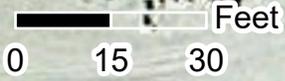
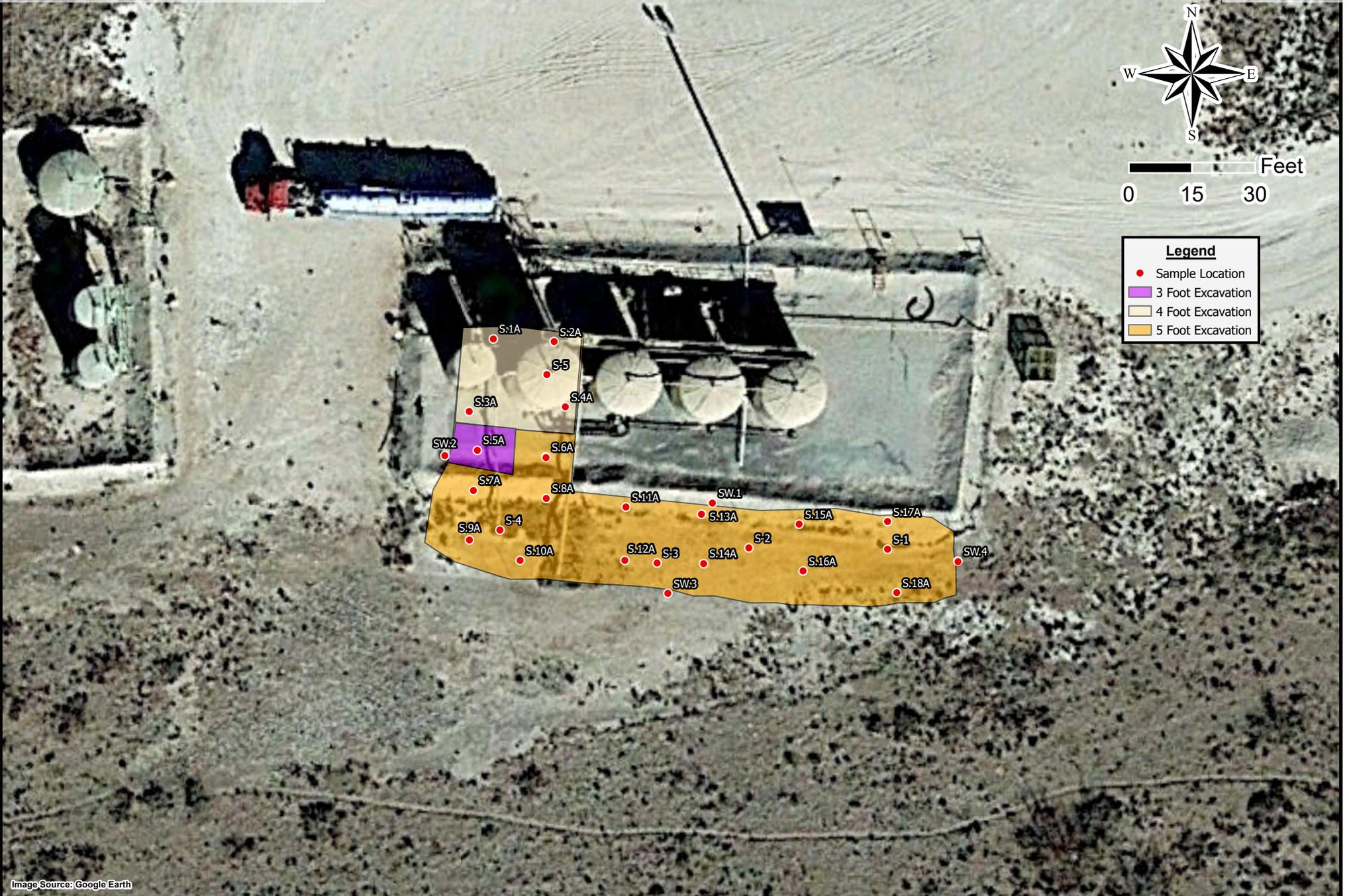
- Sample Location
- Impact Area

Image Source: Google Earth



Drafted: 10/12/2022  
 1 in = 50 ft  
 Drafted By: JAI

EOG Resources  
 Tenneco CTB  
 Lea County, New Mexico  
 Figure 1 - Site Assessment Map



**Legend**

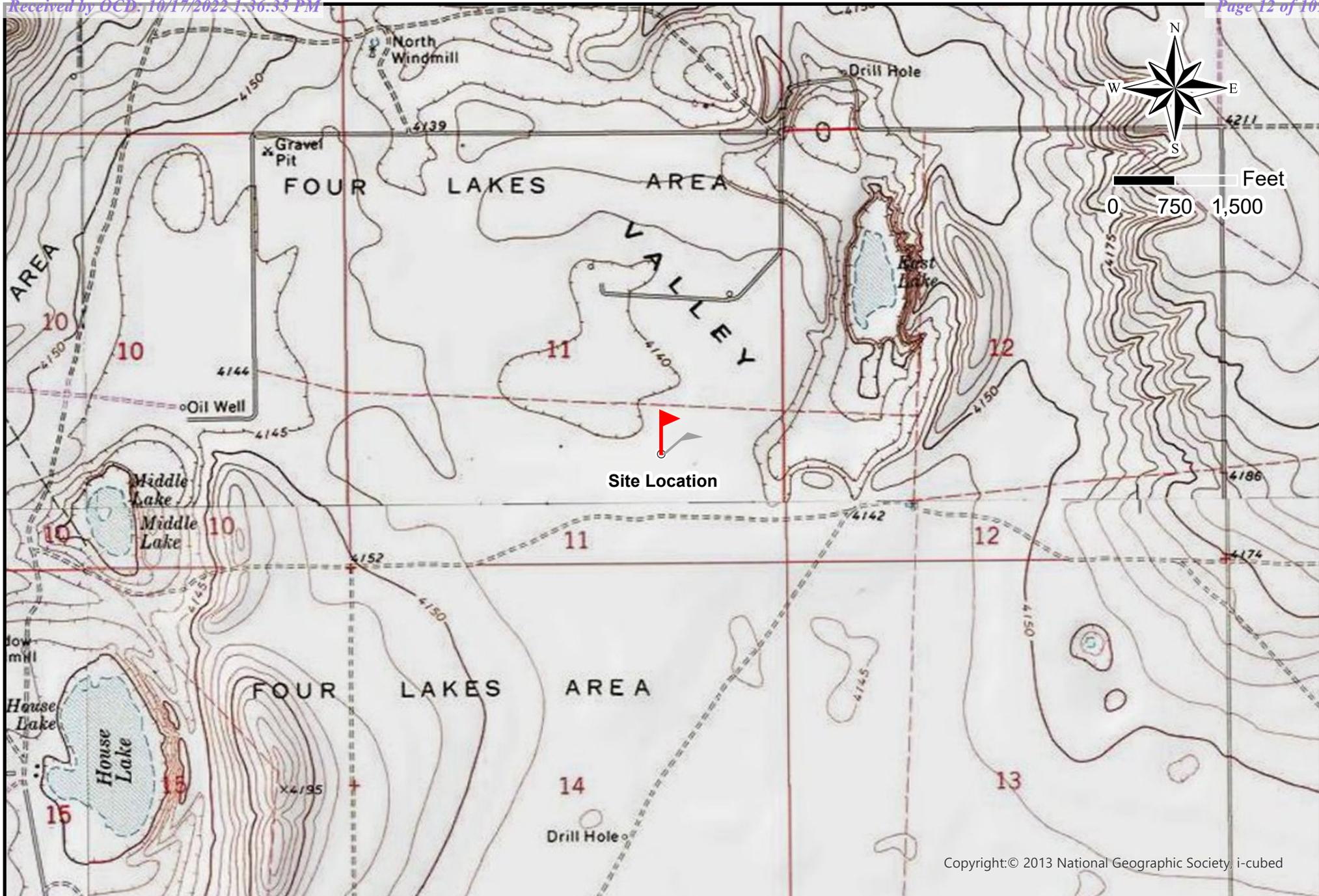
- Sample Location
- 3 Foot Excavation
- 4 Foot Excavation
- 5 Foot Excavation

Image Source: Google Earth



Drafted: 10/12/2022  
 1 in = 30 ft  
 Drafted By: JAI

EOG Resources  
 Tenneco CTB  
 Lea County, New Mexico  
 Figure 2 - Confirmation Sample Map



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Drafted: 10/12/2022

1 in = 1,500 ft

Drafted By: JAI

EOG Resources  
 Tenneco CTB  
 Lea County, New Mexico  
 Figure 4 - Topographic Map



Esri Community Maps Contributors, New Mexico State University, Texas Parks & Wildlife, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, Maxar



Drafted: 10/12/2022  
 1 in = 1,500 ft  
 Drafted By: JAI

EOG Resources  
 Tenneco CTB  
 Lea County, New Mexico  
 Figure 5 - Karst Map



## Appendix II

### Groundwater Data, & Soil Survey, Wetlands Map



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

(R=POD has been replaced, O=orphaned, C=the file is closed)

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

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

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<u>L_00372</u>		L	CH			2	23	11S	34E	641710	3691658*	2445	76		
<u>L_00371</u>		L	LE	3	1	23	11S	34E	641408	3691556	2555	76			
<u>L_00392</u>		L	CH			1	24	11S	34E	642513	3691670*	2591	110		
<u>L_00393</u>		L	CH	2	2	4	23	11S	34E	642016	3691159*	2969	120		
<u>L_00396</u>		L	LE	1	4	4	23	11S	34E	641822	3690756*	3352	460		
<u>L_00397</u>		L	LE	2	4	3	23	11S	34E	641219	3690744*	3382	80		
<u>L_00399</u>		L	LE	1	3	3	24	11S	34E	642224	3690762*	3394	105		
<u>L_00395</u>		L	LE	3	4	3	24	11S	34E	642626	3690568*	3674	100		
<u>L_10199</u>		L	LE			2	2	21	11S	34E	638684	3691821*	3717	51	
<u>L_00400</u>		L	LE	2	2	1	25	11S	34E	642832	3690365*	3928	100		
<u>L_00394</u>		L	LE	1	1	2	25	11S	34E	643035	3690371*	3990	100		
<u>L_14746</u> POD1		L	LE	1	1	3	05	11S	35E	645411	3695945	4215	160	24	136
<u>L_06372</u>		L	LE	3	1	16	11S	34E	637458	3693013*	4302	124	80	44	
<u>L_03137</u>		L	LE	3	3	16	11S	34E	637470	3692208*	4561	85	45	40	
<u>L_06784</u>		L	LE				21	11S	34E	638097	3691202*	4563	61	25	36
<u>L_10197</u>		L	LE	1	4	26	11S	34E	641538	3689447*	4655	50			

Average Depth to Water: **43 feet**

Minimum Depth: **24 feet**

Maximum Depth: **80 feet**

**Record Count:** 16

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

Easting (X): 641619.87

Northing (Y): 3694102.21

Radius: 5000

\*UTM location was derived from PLSS - see Help

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

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WATER COLUMN/ AVERAGE DEPTH TO WATER



# New Mexico Office of the State Engineer

## Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

<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>
22450	L 14746 POD1	1	1	3	05	11S	35E	645411	3695945

**Driller License:** 1737      **Driller Company:** SHADE TREE DRILLING

**Driller Name:** JUSTIN MULLINS

**Drill Start Date:** 10/13/2019      **Drill Finish Date:** 10/14/2019      **Plug Date:**

**Log File Date:** 02/10/2020      **PCW Rcv Date:**      **Source:** Shallow

**Pump Type:**      **Pipe Discharge Size:**      **Estimated Yield:** 20 GPM

**Casing Size:** 6.00      **Depth Well:** 160 feet      **Depth Water:** 24 feet

<b>Water Bearing Stratifications:</b>	<b>Top</b>	<b>Bottom</b>	<b>Description</b>
	24	26	Sandstone/Gravel/Conglomerate
	40	45	Sandstone/Gravel/Conglomerate

<b>Casing Perforations:</b>	<b>Top</b>	<b>Bottom</b>
	20	60
	120	160

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.

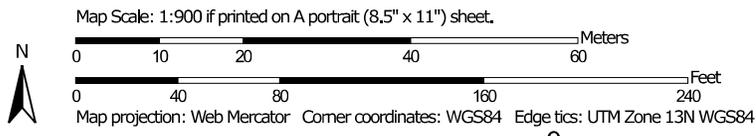
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POINT OF DIVERSION SUMMARY

### Custom Soil Resource Report Soil Map



Soil Map may not be valid at this scale.



Custom Soil Resource Report

## Lea County, New Mexico

### PG—Portales and Gomez fine sandy loams

#### Map Unit Setting

*National map unit symbol:* dmqm  
*Elevation:* 3,600 to 4,400 feet  
*Mean annual precipitation:* 12 to 16 inches  
*Mean annual air temperature:* 58 to 60 degrees F  
*Frost-free period:* 190 to 205 days  
*Farmland classification:* Farmland of statewide importance

#### Map Unit Composition

*Portales and similar soils:* 46 percent  
*Gomez and similar soils:* 44 percent  
*Minor components:* 10 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Portales

##### Setting

*Landform:* Plains  
*Landform position (three-dimensional):* Dip  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Calcareous alluvium and/or calcareous eolian deposits derived from sedimentary rock

##### Typical profile

*A - 0 to 8 inches:* fine sandy loam  
*Bk - 8 to 60 inches:* clay loam

##### Properties and qualities

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Well drained  
*Runoff class:* Low  
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high (0.60 to 2.00 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 50 percent  
*Gypsum, maximum content:* 1 percent  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 2.0  
*Available water supply, 0 to 60 inches:* High (about 11.0 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 3e  
*Land capability classification (nonirrigated):* 4e  
*Hydrologic Soil Group:* B  
*Ecological site:* R077CY035TX - Sandy 16-21" PZ  
*Hydric soil rating:* No

## Custom Soil Resource Report

**Description of Gomez****Setting**

*Landform:* Plains  
*Landform position (three-dimensional):* Dip  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Calcareous alluvium and/or calcareous lacustrine deposits derived from sedimentary rock

**Typical profile**

*A - 0 to 6 inches:* fine sandy loam  
*Bk1 - 6 to 22 inches:* fine sandy loam  
*Bk2 - 22 to 60 inches:* fine sandy loam

**Properties and qualities**

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Well drained  
*Runoff class:* Very low  
*Capacity of the most limiting layer to transmit water (Ksat):* High (2.00 to 6.00 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 50 percent  
*Gypsum, maximum content:* 1 percent  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 2.0  
*Available water supply, 0 to 60 inches:* Moderate (about 6.2 inches)

**Interpretive groups**

*Land capability classification (irrigated):* 3e  
*Land capability classification (nonirrigated):* 4c  
*Hydrologic Soil Group:* A  
*Ecological site:* R077CY035TX - Sandy 16-21" PZ  
*Hydric soil rating:* No

**Minor Components****Lea**

*Percent of map unit:* 5 percent  
*Ecological site:* R077CY028TX - Limy Upland 16-21" PZ  
*Hydric soil rating:* No

**Arvana**

*Percent of map unit:* 3 percent  
*Ecological site:* R077CY035TX - Sandy 16-21" PZ  
*Hydric soil rating:* No

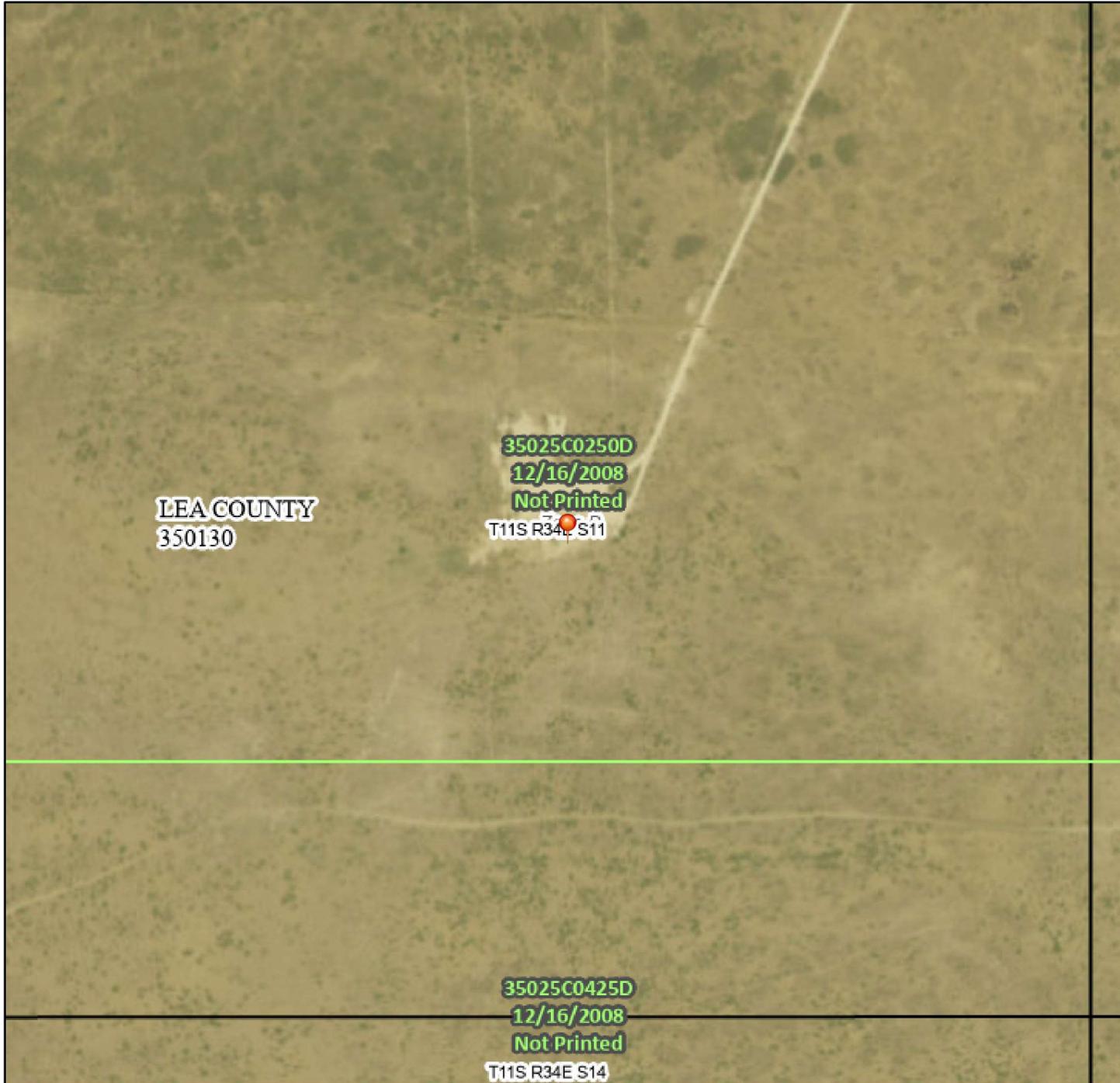
**Amarillo**

*Percent of map unit:* 2 percent  
*Ecological site:* R077CY056NM - Sandy Plains  
*Hydric soil rating:* No

# National Flood Hazard Layer FIRMMette



103°28'58"W 33°22'51"N



## Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

- |                                    |  |  |
|------------------------------------|--|--|
| <b>SPECIAL FLOOD HAZARD AREAS</b>  |  | Without Base Flood Elevation (BFE)<br><i>Zone A, V, A99</i>  |
|                                    |  | With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>   |
|                                    |  | Regulatory Floodway  |
| <b>OTHER AREAS OF FLOOD HAZARD</b> |  | 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i> |
|                                    |  | Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>  |
|                                    |  | Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>  |
|                                    |  | Area with Flood Risk due to Levee <i>Zone D</i>  |
| <b>OTHER AREAS</b>                 |  | NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>   |
|                                    |  | Effective LOMRs  |
| <b>GENERAL STRUCTURES</b>          |  | Area of Undetermined Flood Hazard <i>Zone D</i>  |
|                                    |  | Channel, Culvert, or Storm Sewer   |
|                                    |  | Levee, Dike, or Floodwall  |
| <b>OTHER FEATURES</b>              |  | 20.2 Cross Sections with 1% Annual Chance Water Surface Elevation  |
|                                    |  | 17.5 Cross Sections with 1% Annual Chance Water Surface Elevation  |
|                                    |  | Coastal Transect   |
|                                    |  | Base Flood Elevation Line (BFE)  |
|                                    |  | Limit of Study   |
|                                    |  | Jurisdiction Boundary  |
| <b>MAP PANELS</b>                  |  | Digital Data Available   |
|                                    |  | No Digital Data Available  |
|                                    |  | Unmapped   |
- The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.



0 250 500 1,500 2,000 Feet 1:6,000

103°28'21"W 33°22'21"N

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/6/2022 at 1:55 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



## Appendix III

### Photographic Documentation



EOG Resources  
Tenneco Battery  
08/15/2022 04:17 PM  
33.37683 -103.47741  
Unnamed Road, Tatum, NM 88267, USA

**Photograph No.1 Description:**

Pad Impact-Sample Positions



EOG Resources  
Tenneco Battery  
08/15/2022 04:17 PM  
33.37673 -103.47741  
Unnamed Road, Tatum, NM 88267, USA

**Photograph No.2 Description:**

Impacted Pasture Area-Sample Positions



**Photograph No.3 Description:**

Excavation of Pad Impact HP Flow line



**Photograph No.4 Description:**

Excavation of Pasture Area exit flow line.



**Photograph No.5 Description:**

Pasture Excavation



**Photograph No.6 Description:**

Pasture Backfilled with Topsoil-Seeded



**Photograph No. 7 Description:**

Pad Area Backfilled-Compacted to Grade



**Appendix IV**  
Laboratory Data



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

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August 22, 2022

REBECCA PONS  
TALON LPE  
408 W. TEXAS AVE.  
ARTESIA, NM 88210

RE: TENNECO CTB

Enclosed are the results of analyses for samples received by the laboratory on 08/17/22 11:10.

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 style.

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	08/17/2022	Sampling Date:	08/15/2022
Reported:	08/22/2022	Sampling Type:	Soil
Project Name:	TENNECO CTB	Sampling Condition:	Cool & Intact
Project Number:	700438.302.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA CO NM		

**Sample ID: S - 1 0-1' (H223759-01)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/18/2022	ND	1.98	99.1	2.00	4.22	QM-07, QR-03	
Toluene*	<0.050	0.050	08/18/2022	ND	1.97	98.5	2.00	3.32		
Ethylbenzene*	<0.050	0.050	08/18/2022	ND	1.89	94.6	2.00	3.83		
Total Xylenes*	<0.150	0.150	08/18/2022	ND	5.86	97.6	6.00	3.75		
Total BTEX	<0.300	0.300	08/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5160	16.0	08/18/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/18/2022	ND	199	99.3	200	1.93		
DRO >C10-C28*	<10.0	10.0	08/18/2022	ND	219	110	200	2.72		
EXT DRO >C28-C36	<10.0	10.0	08/18/2022	ND						

Surrogate: 1-Chlorooctane 97.9 % 43-149

Surrogate: 1-Chlorooctadecane 105 % 42.5-161

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:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	08/17/2022	Sampling Date:	08/15/2022
Reported:	08/22/2022	Sampling Type:	Soil
Project Name:	TENNECO CTB	Sampling Condition:	Cool & Intact
Project Number:	700438.302.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA CO NM		

**Sample ID: S - 1 2' (H223759-02)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/18/2022	ND	1.98	99.1	2.00	4.22	
Toluene*	<0.050	0.050	08/18/2022	ND	1.97	98.5	2.00	3.32	
Ethylbenzene*	<0.050	0.050	08/18/2022	ND	1.89	94.6	2.00	3.83	
Total Xylenes*	<0.150	0.150	08/18/2022	ND	5.86	97.6	6.00	3.75	
Total BTEX	<0.300	0.300	08/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1950	16.0	08/18/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/18/2022	ND	199	99.3	200	1.93	
DRO >C10-C28*	<10.0	10.0	08/18/2022	ND	219	110	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	08/18/2022	ND					

Surrogate: 1-Chlorooctane 106 % 43-149

Surrogate: 1-Chlorooctadecane 112 % 42.5-161

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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:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	08/17/2022	Sampling Date:	08/15/2022
Reported:	08/22/2022	Sampling Type:	Soil
Project Name:	TENNECO CTB	Sampling Condition:	Cool & Intact
Project Number:	700438.302.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA CO NM		

**Sample ID: S - 1 3' (H223759-03)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/18/2022	ND	1.98	99.1	2.00	4.22	
Toluene*	<0.050	0.050	08/18/2022	ND	1.97	98.5	2.00	3.32	
Ethylbenzene*	<0.050	0.050	08/18/2022	ND	1.89	94.6	2.00	3.83	
Total Xylenes*	<0.150	0.150	08/18/2022	ND	5.86	97.6	6.00	3.75	
Total BTEX	<0.300	0.300	08/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1570	16.0	08/18/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/18/2022	ND	199	99.3	200	1.93	
DRO >C10-C28*	<10.0	10.0	08/18/2022	ND	219	110	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	08/18/2022	ND					

Surrogate: 1-Chlorooctane 102 % 43-149

Surrogate: 1-Chlorooctadecane 106 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	08/17/2022	Sampling Date:	08/15/2022
Reported:	08/22/2022	Sampling Type:	Soil
Project Name:	TENNECO CTB	Sampling Condition:	Cool & Intact
Project Number:	700438.302.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA CO NM		

**Sample ID: S - 1 4' R (H223759-04)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/18/2022	ND	1.98	99.1	2.00	4.22	
Toluene*	<0.050	0.050	08/18/2022	ND	1.97	98.5	2.00	3.32	
Ethylbenzene*	<0.050	0.050	08/18/2022	ND	1.89	94.6	2.00	3.83	
Total Xylenes*	<0.150	0.150	08/18/2022	ND	5.86	97.6	6.00	3.75	
Total BTEX	<0.300	0.300	08/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1660	16.0	08/18/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/18/2022	ND	199	99.3	200	1.93	
DRO >C10-C28*	<10.0	10.0	08/18/2022	ND	219	110	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	08/18/2022	ND					

Surrogate: 1-Chlorooctane 105 % 43-149

Surrogate: 1-Chlorooctadecane 110 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received: 08/17/2022  
 Reported: 08/22/2022  
 Project Name: TENNECO CTB  
 Project Number: 700438.302.01  
 Project Location: EOG - LEA CO NM

Sampling Date: 08/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 2 0-0.5' R (H223759-05)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/18/2022	ND	1.98	99.1	2.00	4.22		
Toluene*	<0.050	0.050	08/18/2022	ND	1.97	98.5	2.00	3.32		
Ethylbenzene*	<0.050	0.050	08/18/2022	ND	1.89	94.6	2.00	3.83		
Total Xylenes*	<0.150	0.150	08/18/2022	ND	5.86	97.6	6.00	3.75		
Total BTEX	<0.300	0.300	08/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2050	16.0	08/18/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/18/2022	ND	199	99.3	200	1.93		
DRO >C10-C28*	<10.0	10.0	08/18/2022	ND	219	110	200	2.72		
EXT DRO >C28-C36	<10.0	10.0	08/18/2022	ND						

Surrogate: 1-Chlorooctane 97.6 % 43-149

Surrogate: 1-Chlorooctadecane 102 % 42.5-161

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	08/17/2022	Sampling Date:	08/15/2022
Reported:	08/22/2022	Sampling Type:	Soil
Project Name:	TENNECO CTB	Sampling Condition:	Cool & Intact
Project Number:	700438.302.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA CO NM		

**Sample ID: S - 3 0-0.5' R (H223759-06)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/18/2022	ND	1.98	99.1	2.00	4.22	
Toluene*	<0.050	0.050	08/18/2022	ND	1.97	98.5	2.00	3.32	
Ethylbenzene*	<0.050	0.050	08/18/2022	ND	1.89	94.6	2.00	3.83	
Total Xylenes*	<0.150	0.150	08/18/2022	ND	5.86	97.6	6.00	3.75	
Total BTEX	<0.300	0.300	08/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9840	16.0	08/18/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/18/2022	ND	199	99.3	200	1.93	
DRO >C10-C28*	<10.0	10.0	08/18/2022	ND	219	110	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	08/18/2022	ND					

Surrogate: 1-Chlorooctane 98.6 % 43-149

Surrogate: 1-Chlorooctadecane 104 % 42.5-161

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	08/17/2022	Sampling Date:	08/15/2022
Reported:	08/22/2022	Sampling Type:	Soil
Project Name:	TENNECO CTB	Sampling Condition:	Cool & Intact
Project Number:	700438.302.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA CO NM		

**Sample ID: S - 4 0-0.5' R (H223759-07)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/18/2022	ND	1.98	99.1	2.00	4.22		
Toluene*	<0.050	0.050	08/18/2022	ND	1.97	98.5	2.00	3.32		
Ethylbenzene*	<0.050	0.050	08/18/2022	ND	1.89	94.6	2.00	3.83		
Total Xylenes*	<0.150	0.150	08/18/2022	ND	5.86	97.6	6.00	3.75		
Total BTEX	<0.300	0.300	08/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10700	16.0	08/18/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/18/2022	ND	199	99.3	200	1.93		
DRO >C10-C28*	<10.0	10.0	08/18/2022	ND	219	110	200	2.72		
EXT DRO >C28-C36	<10.0	10.0	08/18/2022	ND						

Surrogate: 1-Chlorooctane 96.6 % 43-149

Surrogate: 1-Chlorooctadecane 102 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	08/17/2022	Sampling Date:	08/15/2022
Reported:	08/22/2022	Sampling Type:	Soil
Project Name:	TENNECO CTB	Sampling Condition:	Cool & Intact
Project Number:	700438.302.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA CO NM		

**Sample ID: S - 5 0-0.5' R (H223759-08)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/18/2022	ND	1.98	99.1	2.00	4.22		
Toluene*	<0.050	0.050	08/18/2022	ND	1.97	98.5	2.00	3.32		
Ethylbenzene*	<0.050	0.050	08/18/2022	ND	1.89	94.6	2.00	3.83		
Total Xylenes*	<0.150	0.150	08/18/2022	ND	5.86	97.6	6.00	3.75		
Total BTEX	<0.300	0.300	08/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1600	16.0	08/18/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/18/2022	ND	199	99.3	200	1.93		
DRO >C10-C28*	<10.0	10.0	08/18/2022	ND	219	110	200	2.72		
EXT DRO >C28-C36	<10.0	10.0	08/18/2022	ND						

Surrogate: 1-Chlorooctane 93.7 % 43-149

Surrogate: 1-Chlorooctadecane 104 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	08/17/2022	Sampling Date:	08/15/2022
Reported:	08/22/2022	Sampling Type:	Soil
Project Name:	TENNECO CTB	Sampling Condition:	Cool & Intact
Project Number:	700438.302.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA CO NM		

**Sample ID: S - 6 0-0.5' R (H223759-09)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/18/2022	ND	1.98	99.1	2.00	4.22		
Toluene*	<0.050	0.050	08/18/2022	ND	1.97	98.5	2.00	3.32		
Ethylbenzene*	<0.050	0.050	08/18/2022	ND	1.89	94.6	2.00	3.83		
Total Xylenes*	<0.150	0.150	08/18/2022	ND	5.86	97.6	6.00	3.75		
Total BTEX	<0.300	0.300	08/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	08/18/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/18/2022	ND	199	99.3	200	1.93		
DRO >C10-C28*	<10.0	10.0	08/18/2022	ND	219	110	200	2.72		
EXT DRO >C28-C36	<10.0	10.0	08/18/2022	ND						

Surrogate: 1-Chlorooctane 101 % 43-149

Surrogate: 1-Chlorooctadecane 107 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	08/17/2022	Sampling Date:	08/15/2022
Reported:	08/22/2022	Sampling Type:	Soil
Project Name:	TENNECO CTB	Sampling Condition:	Cool & Intact
Project Number:	700438.302.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA CO NM		

**Sample ID: S - 7 0-0.5' R (H223759-10)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/18/2022	ND	1.98	99.1	2.00	4.22		
Toluene*	<0.050	0.050	08/18/2022	ND	1.97	98.5	2.00	3.32		
Ethylbenzene*	<0.050	0.050	08/18/2022	ND	1.89	94.6	2.00	3.83		
Total Xylenes*	<0.150	0.150	08/18/2022	ND	5.86	97.6	6.00	3.75		
Total BTEX	<0.300	0.300	08/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	08/18/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/18/2022	ND	199	99.3	200	1.93		
DRO >C10-C28*	<10.0	10.0	08/18/2022	ND	219	110	200	2.72		
EXT DRO >C28-C36	<10.0	10.0	08/18/2022	ND						

Surrogate: 1-Chlorooctane 99.7 % 43-149

Surrogate: 1-Chlorooctadecane 106 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	08/17/2022	Sampling Date:	08/15/2022
Reported:	08/22/2022	Sampling Type:	Soil
Project Name:	TENNECO CTB	Sampling Condition:	Cool & Intact
Project Number:	700438.302.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA CO NM		

**Sample ID: S - 8 0-0.5' R (H223759-11)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/18/2022	ND	1.98	99.1	2.00	4.22		
Toluene*	<0.050	0.050	08/18/2022	ND	1.97	98.5	2.00	3.32		
Ethylbenzene*	<0.050	0.050	08/18/2022	ND	1.89	94.6	2.00	3.83		
Total Xylenes*	<0.150	0.150	08/18/2022	ND	5.86	97.6	6.00	3.75		
Total BTEX	<0.300	0.300	08/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/18/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/18/2022	ND	199	99.3	200	1.93		
DRO >C10-C28*	<10.0	10.0	08/18/2022	ND	219	110	200	2.72		
EXT DRO >C28-C36	<10.0	10.0	08/18/2022	ND						

Surrogate: 1-Chlorooctane 97.1 % 43-149

Surrogate: 1-Chlorooctadecane 104 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	08/17/2022	Sampling Date:	08/15/2022
Reported:	08/22/2022	Sampling Type:	Soil
Project Name:	TENNECO CTB	Sampling Condition:	Cool & Intact
Project Number:	700438.302.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA CO NM		

**Sample ID: S - 9 0' (H223759-12)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/18/2022	ND	1.98	99.1	2.00	4.22		
Toluene*	<0.050	0.050	08/18/2022	ND	1.97	98.5	2.00	3.32		
Ethylbenzene*	<0.050	0.050	08/18/2022	ND	1.89	94.6	2.00	3.83		
Total Xylenes*	<0.150	0.150	08/18/2022	ND	5.86	97.6	6.00	3.75		
Total BTEX	<0.300	0.300	08/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/18/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/18/2022	ND	199	99.3	200	1.93		
DRO >C10-C28*	<10.0	10.0	08/18/2022	ND	219	110	200	2.72		
EXT DRO >C28-C36	<10.0	10.0	08/18/2022	ND						

Surrogate: 1-Chlorooctane 97.1 % 43-149

Surrogate: 1-Chlorooctadecane 105 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	08/17/2022	Sampling Date:	08/15/2022
Reported:	08/22/2022	Sampling Type:	Soil
Project Name:	TENNECO CTB	Sampling Condition:	Cool & Intact
Project Number:	700438.302.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA CO NM		

**Sample ID: S - 10 0' (H223759-13)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/18/2022	ND	1.88	93.9	2.00	4.59		
Toluene*	<0.050	0.050	08/18/2022	ND	1.98	99.1	2.00	9.36		
Ethylbenzene*	<0.050	0.050	08/18/2022	ND	1.98	99.1	2.00	8.29		
Total Xylenes*	<0.150	0.150	08/18/2022	ND	6.16	103	6.00	8.21		
Total BTEX	<0.300	0.300	08/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/18/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/17/2022	ND	192	95.9	200	3.68		
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	214	107	200	3.90		
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND						

Surrogate: 1-Chlorooctane 85.5 % 43-149

Surrogate: 1-Chlorooctadecane 101 % 42.5-161

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**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	08/17/2022	Sampling Date:	08/15/2022
Reported:	08/22/2022	Sampling Type:	Soil
Project Name:	TENNECO CTB	Sampling Condition:	Cool & Intact
Project Number:	700438.302.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA CO NM		

**Sample ID: S - 11 0' (H223759-14)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/18/2022	ND	1.88	93.9	2.00	4.59	
Toluene*	<0.050	0.050	08/18/2022	ND	1.98	99.1	2.00	9.36	
Ethylbenzene*	<0.050	0.050	08/18/2022	ND	1.98	99.1	2.00	8.29	
Total Xylenes*	<0.150	0.150	08/18/2022	ND	6.16	103	6.00	8.21	
Total BTEX	<0.300	0.300	08/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/18/2022	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	08/17/2022	ND	192	95.9	200	3.68	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	214	107	200	3.90	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 90.3 % 43-149

Surrogate: 1-Chlorooctadecane 106 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	08/17/2022	Sampling Date:	08/15/2022
Reported:	08/22/2022	Sampling Type:	Soil
Project Name:	TENNECO CTB	Sampling Condition:	Cool & Intact
Project Number:	700438.302.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA CO NM		

**Sample ID: S - 12 0' (H223759-15)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/18/2022	ND	1.88	93.9	2.00	4.59	
Toluene*	<0.050	0.050	08/18/2022	ND	1.98	99.1	2.00	9.36	
Ethylbenzene*	<0.050	0.050	08/18/2022	ND	1.98	99.1	2.00	8.29	
Total Xylenes*	<0.150	0.150	08/18/2022	ND	6.16	103	6.00	8.21	
Total BTEX	<0.300	0.300	08/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/18/2022	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	08/17/2022	ND	192	95.9	200	3.68	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	214	107	200	3.90	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 84.8 % 43-149

Surrogate: 1-Chlorooctadecane 98.4 % 42.5-161

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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.
- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- 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

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

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

**BILL TO**

**ANALYSIS REQUEST**

Company Name: Talon LPE  
 Project Manager: R. Pons  
 Address: 408 W. Texas Ave  
 City: Artesia State: NM zip: 88210  
 Phone #: 575.746.8768 Fax #: \_\_\_\_\_  
 Project #: 700438.302.01 Project Owner: EOG Resources  
 Project Name: Tenneco CTB  
 Project Location: Lea County, NM  
 Sampler Name: M. Gomez  
 P.O. #: \_\_\_\_\_ Company: \_\_\_\_\_  
 Attn: \_\_\_\_\_ Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	Chlorides	TPH	BTEX
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
HE23759	1	S-1 0-1'	1	X							8/15/02	2:50	X	X	X
	2	S-1 2'	1	X								2:53	X	X	X
	3	S-1 3'	1	X								2:56	X	X	X
	4	S-1 4' R	1	X								2:59	X	X	X
	5	S-2 0-0.5'R	1	X								3:05	X	X	X
	6	S-3 0-0.5'R	1	X								3:10	X	X	X
	7	S-4 0-0.5'R	1	X								3:15	X	X	X
	8	S-5 0-0.5'R	1	X								3:20	X	X	X
	9	S-6 0-0.5'R	1	X								3:25	X	X	X
	10	S-7 0-0.5'R	1	X								3:30	X	X	X

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Relinquished By: M. Gomez Date: 8/17/02 Received By: Spedrigney  
 Time: 1110  
 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Received By: \_\_\_\_\_  
 Time: \_\_\_\_\_

Delivered By: (Circle One) UPS Sample Condition:  Intact  Cool  Yes  No  
 Sampler - UPS - Bus - Other: 2.8c #113 Checked By: Spedrigney  
 Phone Result:  Yes  No Add'l Phone #: \_\_\_\_\_  
 Fax Result:  Yes  No Add'l Fax #: \_\_\_\_\_

\* Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

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

**BILL TO**

**ANALYSIS REQUEST**

Company Name: Talon LPE		P.O. #:
Project Manager: R. Pons		Company:
Address: 408 W. Texas Ave		Attn:
City: Artesia		Address:
State: NM Zip: 88210		City:
Phone #: 575.746.8768	Fax #:	State:
Project #: 700438.302.01	Project Owner: EOG Resources	Zip:
Project Name: Tenneco CTB		
Project Location: Lea County, NM		
Sampler Name: M. Gomez		

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	Chlorides	TPH	BTEX
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
H223759	11	S-8-0-0.5'R	6			X				8/15/22	3:35	X	X	X
	12	S-9-0'	1			X					3:40	X	X	X
	13	S-10-0'	1			X					3:45	X	X	X
	14	S-11-0'	1			X					3:50	X	X	X
	15	S-12-0'	1			X					3:55	X	X	X

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Relinquished By: M. Gomez Date: 8/17/22 Received By: Speckriener

Relinquished By: M. Gomez Date: 11/0 Received By: Speckriener

Delivered By: (Circle One) 38°C C-06°C Sample Condition:  Intact  Cool  Yes  No

Sampler - UPS - Bus - Other: 38°C C-06°C 38°C #113 CHECKED BY: SGZ

Phone Result:  Yes  No Add'l Phone #: \_\_\_\_\_

Fax Result:  Yes  No Add'l Fax #: \_\_\_\_\_

REMARKS: \_\_\_\_\_

+ Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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

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\*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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---

October 03, 2022

REBECCA PONS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: TENNECO CTB

Enclosed are the results of analyses for samples received by the laboratory on 09/28/22 16:28.

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".

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	09/28/2022	Sampling Date:	09/28/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	TENNECO CTB	Sampling Condition:	** (See Notes)
Project Number:	700438.302.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA CO NM		

**Sample ID: S . 1A 4' (H224522-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2022	ND	2.13	106	2.00	4.73	
Toluene*	<0.050	0.050	10/02/2022	ND	2.09	104	2.00	3.41	
Ethylbenzene*	<0.050	0.050	10/02/2022	ND	2.05	103	2.00	3.18	
Total Xylenes*	<0.150	0.150	10/02/2022	ND	6.23	104	6.00	3.57	
Total BTEX	<0.300	0.300	10/02/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	09/30/2022	ND	432	108	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	09/30/2022	ND	211	105	200	3.00	
DRO >C10-C28*	<10.0	10.0	09/30/2022	ND	208	104	200	3.17	
EXT DRO >C28-C36	<10.0	10.0	09/30/2022	ND					

Surrogate: 1-Chlorooctane 96.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 109 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	09/28/2022	Sampling Date:	09/28/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	TENNECO CTB	Sampling Condition:	** (See Notes)
Project Number:	700438.302.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA CO NM		

**Sample ID: S . 2A 4' (H224522-02)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2022	ND	2.06	103	2.00	4.26	
Toluene*	<0.050	0.050	09/29/2022	ND	2.01	100	2.00	3.94	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.93	96.3	2.00	4.40	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	5.98	99.6	6.00	3.71	
Total BTEX	<0.300	0.300	09/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	09/30/2022	ND	432	108	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	09/30/2022	ND	211	105	200	3.00	
DRO >C10-C28*	<10.0	10.0	09/30/2022	ND	208	104	200	3.17	
EXT DRO >C28-C36	<10.0	10.0	09/30/2022	ND					

Surrogate: 1-Chlorooctane 107 % 45.3-161

Surrogate: 1-Chlorooctadecane 120 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	09/28/2022	Sampling Date:	09/28/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	TENNECO CTB	Sampling Condition:	** (See Notes)
Project Number:	700438.302.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA CO NM		

**Sample ID: S . 3A 4' (H224522-03)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2022	ND	2.06	103	2.00	4.26	
Toluene*	<0.050	0.050	09/29/2022	ND	2.01	100	2.00	3.94	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.93	96.3	2.00	4.40	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	5.98	99.6	6.00	3.71	
Total BTEX	<0.300	0.300	09/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	09/30/2022	ND	432	108	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	09/30/2022	ND	211	105	200	3.00	
DRO >C10-C28*	<10.0	10.0	09/30/2022	ND	208	104	200	3.17	
EXT DRO >C28-C36	<10.0	10.0	09/30/2022	ND					

Surrogate: 1-Chlorooctane 114 % 45.3-161

Surrogate: 1-Chlorooctadecane 129 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	09/28/2022	Sampling Date:	09/28/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	TENNECO CTB	Sampling Condition:	** (See Notes)
Project Number:	700438.302.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA CO NM		

**Sample ID: S . 4A 4' (H224522-04)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2022	ND	2.06	103	2.00	4.26	
Toluene*	<0.050	0.050	09/29/2022	ND	2.01	100	2.00	3.94	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.93	96.3	2.00	4.40	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	5.98	99.6	6.00	3.71	
Total BTEX	<0.300	0.300	09/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	09/30/2022	ND	432	108	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	09/30/2022	ND	211	105	200	3.00	
DRO >C10-C28*	<10.0	10.0	09/30/2022	ND	208	104	200	3.17	
EXT DRO >C28-C36	<10.0	10.0	09/30/2022	ND					

Surrogate: 1-Chlorooctane 111 % 45.3-161

Surrogate: 1-Chlorooctadecane 126 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	09/28/2022	Sampling Date:	09/28/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	TENNECO CTB	Sampling Condition:	** (See Notes)
Project Number:	700438.302.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA CO NM		

**Sample ID: S . 5A 3' (H224522-05)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2022	ND	2.06	103	2.00	4.26	
Toluene*	<0.050	0.050	09/29/2022	ND	2.01	100	2.00	3.94	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.93	96.3	2.00	4.40	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	5.98	99.6	6.00	3.71	
Total BTEX	<0.300	0.300	09/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>288</b>	16.0	09/30/2022	ND	432	108	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	09/29/2022	ND	216	108	200	3.32	
<b>DRO &gt;C10-C28*</b>	<b>36.7</b>	10.0	09/29/2022	ND	207	104	200	5.24	
EXT DRO >C28-C36	<10.0	10.0	09/29/2022	ND					

Surrogate: 1-Chlorooctane 99.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 124 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	09/28/2022	Sampling Date:	09/28/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	TENNECO CTB	Sampling Condition:	** (See Notes)
Project Number:	700438.302.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA CO NM		

**Sample ID: S . 6A 5' (H224522-06)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2022	ND	2.06	103	2.00	4.26	
Toluene*	<0.050	0.050	09/29/2022	ND	2.01	100	2.00	3.94	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.93	96.3	2.00	4.40	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	5.98	99.6	6.00	3.71	
Total BTEX	<0.300	0.300	09/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	09/30/2022	ND	432	108	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	09/29/2022	ND	216	108	200	3.32	
DRO >C10-C28*	<10.0	10.0	09/29/2022	ND	207	104	200	5.24	
EXT DRO >C28-C36	<10.0	10.0	09/29/2022	ND					

Surrogate: 1-Chlorooctane 94.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 115 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	09/28/2022	Sampling Date:	09/28/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	TENNECO CTB	Sampling Condition:	** (See Notes)
Project Number:	700438.302.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA CO NM		

**Sample ID: S . 7A 5' (H224522-07)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2022	ND	2.06	103	2.00	4.26	
Toluene*	<0.050	0.050	09/29/2022	ND	2.01	100	2.00	3.94	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.93	96.3	2.00	4.40	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	5.98	99.6	6.00	3.71	
Total BTEX	<0.300	0.300	09/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/30/2022	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	09/29/2022	ND	216	108	200	3.32	
DRO >C10-C28*	<10.0	10.0	09/29/2022	ND	207	104	200	5.24	
EXT DRO >C28-C36	<10.0	10.0	09/29/2022	ND					

Surrogate: 1-Chlorooctane 96.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 117 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	09/28/2022	Sampling Date:	09/28/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	TENNECO CTB	Sampling Condition:	** (See Notes)
Project Number:	700438.302.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA CO NM		

**Sample ID: S . 8A 5' (H224522-08)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2022	ND	2.06	103	2.00	4.26	
Toluene*	<0.050	0.050	09/29/2022	ND	2.01	100	2.00	3.94	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.93	96.3	2.00	4.40	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	5.98	99.6	6.00	3.71	
Total BTEX	<0.300	0.300	09/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/30/2022	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	09/29/2022	ND	216	108	200	3.32	
DRO >C10-C28*	<10.0	10.0	09/29/2022	ND	207	104	200	5.24	
EXT DRO >C28-C36	<10.0	10.0	09/29/2022	ND					

Surrogate: 1-Chlorooctane 87.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 108 % 46.3-178

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**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received: 09/28/2022  
 Reported: 10/03/2022  
 Project Name: TENNECO CTB  
 Project Number: 700438.302.01  
 Project Location: EOG - LEA CO NM

Sampling Date: 09/28/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S . 9A 5' (H224522-09)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2022	ND	1.97	98.3	2.00	2.15	
Toluene*	<0.050	0.050	10/01/2022	ND	1.97	98.3	2.00	3.14	
Ethylbenzene*	<0.050	0.050	10/01/2022	ND	1.95	97.6	2.00	2.66	
Total Xylenes*	<0.150	0.150	10/01/2022	ND	5.92	98.7	6.00	3.03	
Total BTEX	<0.300	0.300	10/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/30/2022	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	09/29/2022	ND	216	108	200	3.32	
DRO >C10-C28*	<10.0	10.0	09/29/2022	ND	207	104	200	5.24	
EXT DRO >C28-C36	<10.0	10.0	09/29/2022	ND					

Surrogate: 1-Chlorooctane 96.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 121 % 46.3-178

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**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	09/28/2022	Sampling Date:	09/28/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	TENNECO CTB	Sampling Condition:	** (See Notes)
Project Number:	700438.302.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA CO NM		

**Sample ID: S . 10A 5' (H224522-10)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2022	ND	1.97	98.3	2.00	2.15	
Toluene*	<0.050	0.050	10/01/2022	ND	1.97	98.3	2.00	3.14	
Ethylbenzene*	<0.050	0.050	10/01/2022	ND	1.95	97.6	2.00	2.66	
Total Xylenes*	<0.150	0.150	10/01/2022	ND	5.92	98.7	6.00	3.03	
Total BTEX	<0.300	0.300	10/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/30/2022	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	09/29/2022	ND	216	108	200	3.32	
DRO >C10-C28*	<10.0	10.0	09/29/2022	ND	207	104	200	5.24	
EXT DRO >C28-C36	<10.0	10.0	09/29/2022	ND					

Surrogate: 1-Chlorooctane 96.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 120 % 46.3-178

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**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	09/28/2022	Sampling Date:	09/28/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	TENNECO CTB	Sampling Condition:	** (See Notes)
Project Number:	700438.302.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA CO NM		

**Sample ID: S . 11A 5' (H224522-11)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2022	ND	1.97	98.3	2.00	2.15	
Toluene*	<0.050	0.050	10/01/2022	ND	1.97	98.3	2.00	3.14	
Ethylbenzene*	<0.050	0.050	10/01/2022	ND	1.95	97.6	2.00	2.66	
Total Xylenes*	<0.150	0.150	10/01/2022	ND	5.92	98.7	6.00	3.03	
Total BTEX	<0.300	0.300	10/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	09/30/2022	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	09/29/2022	ND	216	108	200	3.32	
DRO >C10-C28*	<10.0	10.0	09/29/2022	ND	207	104	200	5.24	
EXT DRO >C28-C36	<10.0	10.0	09/29/2022	ND					

Surrogate: 1-Chlorooctane 95.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 120 % 46.3-178

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**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	09/28/2022	Sampling Date:	09/28/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	TENNECO CTB	Sampling Condition:	** (See Notes)
Project Number:	700438.302.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA CO NM		

**Sample ID: S . 12A 5' (H224522-12)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2022	ND	1.97	98.3	2.00	2.15	
Toluene*	<0.050	0.050	10/01/2022	ND	1.97	98.3	2.00	3.14	
Ethylbenzene*	<0.050	0.050	10/01/2022	ND	1.95	97.6	2.00	2.66	
Total Xylenes*	<0.150	0.150	10/01/2022	ND	5.92	98.7	6.00	3.03	
Total BTEX	<0.300	0.300	10/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/30/2022	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	09/29/2022	ND	216	108	200	3.32	
DRO >C10-C28*	<10.0	10.0	09/29/2022	ND	207	104	200	5.24	
EXT DRO >C28-C36	<10.0	10.0	09/29/2022	ND					

Surrogate: 1-Chlorooctane 95.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 116 % 46.3-178

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**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	09/28/2022	Sampling Date:	09/28/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	TENNECO CTB	Sampling Condition:	** (See Notes)
Project Number:	700438.302.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA CO NM		

**Sample ID: S . 13A 5' (H224522-13)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2022	ND	1.97	98.3	2.00	2.15	
Toluene*	<0.050	0.050	10/01/2022	ND	1.97	98.3	2.00	3.14	
Ethylbenzene*	<0.050	0.050	10/01/2022	ND	1.95	97.6	2.00	2.66	
Total Xylenes*	<0.150	0.150	10/01/2022	ND	5.92	98.7	6.00	3.03	
Total BTEX	<0.300	0.300	10/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/30/2022	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	09/29/2022	ND	216	108	200	3.32	
DRO >C10-C28*	<10.0	10.0	09/29/2022	ND	207	104	200	5.24	
EXT DRO >C28-C36	<10.0	10.0	09/29/2022	ND					

Surrogate: 1-Chlorooctane 94.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 116 % 46.3-178

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**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	09/28/2022	Sampling Date:	09/28/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	TENNECO CTB	Sampling Condition:	** (See Notes)
Project Number:	700438.302.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA CO NM		

**Sample ID: S . 14A 5' (H224522-14)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2022	ND	1.97	98.3	2.00	2.15	
Toluene*	<0.050	0.050	10/01/2022	ND	1.97	98.3	2.00	3.14	
Ethylbenzene*	<0.050	0.050	10/01/2022	ND	1.95	97.6	2.00	2.66	
Total Xylenes*	<0.150	0.150	10/01/2022	ND	5.92	98.7	6.00	3.03	
Total BTEX	<0.300	0.300	10/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/30/2022	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	09/29/2022	ND	216	108	200	3.32	
DRO >C10-C28*	<10.0	10.0	09/29/2022	ND	207	104	200	5.24	
EXT DRO >C28-C36	<10.0	10.0	09/29/2022	ND					

Surrogate: 1-Chlorooctane 89.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 110 % 46.3-178

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**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	09/28/2022	Sampling Date:	09/28/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	TENNECO CTB	Sampling Condition:	** (See Notes)
Project Number:	700438.302.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA CO NM		

**Sample ID: S . 15A 5' (H224522-15)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2022	ND	1.97	98.3	2.00	2.15	
Toluene*	<0.050	0.050	10/01/2022	ND	1.97	98.3	2.00	3.14	
Ethylbenzene*	<0.050	0.050	10/01/2022	ND	1.95	97.6	2.00	2.66	
Total Xylenes*	<0.150	0.150	10/01/2022	ND	5.92	98.7	6.00	3.03	
Total BTEX	<0.300	0.300	10/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/30/2022	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	09/29/2022	ND	216	108	200	3.32	
DRO >C10-C28*	<10.0	10.0	09/29/2022	ND	207	104	200	5.24	
EXT DRO >C28-C36	<10.0	10.0	09/29/2022	ND					

Surrogate: 1-Chlorooctane 91.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 114 % 46.3-178

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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:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	09/28/2022	Sampling Date:	09/28/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	TENNECO CTB	Sampling Condition:	** (See Notes)
Project Number:	700438.302.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA CO NM		

**Sample ID: S . 16A 5' (H224522-16)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2022	ND	1.97	98.3	2.00	2.15	
Toluene*	<0.050	0.050	10/01/2022	ND	1.97	98.3	2.00	3.14	
Ethylbenzene*	<0.050	0.050	10/01/2022	ND	1.95	97.6	2.00	2.66	
Total Xylenes*	<0.150	0.150	10/01/2022	ND	5.92	98.7	6.00	3.03	
Total BTEX	<0.300	0.300	10/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/30/2022	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	09/29/2022	ND	216	108	200	3.32	
DRO >C10-C28*	<10.0	10.0	09/29/2022	ND	207	104	200	5.24	
EXT DRO >C28-C36	<10.0	10.0	09/29/2022	ND					

Surrogate: 1-Chlorooctane 99.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 122 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	09/28/2022	Sampling Date:	09/28/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	TENNECO CTB	Sampling Condition:	** (See Notes)
Project Number:	700438.302.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA CO NM		

**Sample ID: S . 17A 5' (H224522-17)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2022	ND	1.97	98.3	2.00	2.15	
Toluene*	<0.050	0.050	10/01/2022	ND	1.97	98.3	2.00	3.14	
Ethylbenzene*	<0.050	0.050	10/01/2022	ND	1.95	97.6	2.00	2.66	
Total Xylenes*	<0.150	0.150	10/01/2022	ND	5.92	98.7	6.00	3.03	
Total BTEX	<0.300	0.300	10/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/30/2022	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	09/29/2022	ND	216	108	200	3.32	
DRO >C10-C28*	<10.0	10.0	09/29/2022	ND	207	104	200	5.24	
EXT DRO >C28-C36	<10.0	10.0	09/29/2022	ND					

Surrogate: 1-Chlorooctane 97.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 118 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	09/28/2022	Sampling Date:	09/28/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	TENNECO CTB	Sampling Condition:	** (See Notes)
Project Number:	700438.302.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA CO NM		

**Sample ID: S . 18A 5' (H224522-18)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2022	ND	1.97	98.3	2.00	2.15	
Toluene*	<0.050	0.050	10/01/2022	ND	1.97	98.3	2.00	3.14	
Ethylbenzene*	<0.050	0.050	10/01/2022	ND	1.95	97.6	2.00	2.66	
Total Xylenes*	<0.150	0.150	10/01/2022	ND	5.92	98.7	6.00	3.03	
Total BTEX	<0.300	0.300	10/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/30/2022	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	09/30/2022	ND	216	108	200	3.32	
DRO >C10-C28*	<10.0	10.0	09/30/2022	ND	207	104	200	5.24	
EXT DRO >C28-C36	<10.0	10.0	09/30/2022	ND					

Surrogate: 1-Chlorooctane 86.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 108 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	09/28/2022	Sampling Date:	09/28/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	TENNECO CTB	Sampling Condition:	** (See Notes)
Project Number:	700438.302.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA CO NM		

**Sample ID: SW . 1 (H224522-19)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2022	ND	1.97	98.3	2.00	2.15	
Toluene*	<0.050	0.050	10/01/2022	ND	1.97	98.3	2.00	3.14	
Ethylbenzene*	<0.050	0.050	10/01/2022	ND	1.95	97.6	2.00	2.66	
Total Xylenes*	<0.150	0.150	10/01/2022	ND	5.92	98.7	6.00	3.03	
Total BTEX	<0.300	0.300	10/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/30/2022	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	09/30/2022	ND	216	108	200	3.32	
DRO >C10-C28*	<10.0	10.0	09/30/2022	ND	207	104	200	5.24	
EXT DRO >C28-C36	<10.0	10.0	09/30/2022	ND					

Surrogate: 1-Chlorooctane 84.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

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**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	09/28/2022	Sampling Date:	09/28/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	TENNECO CTB	Sampling Condition:	** (See Notes)
Project Number:	700438.302.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA CO NM		

**Sample ID: SW . 2 (H224522-20)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2022	ND	1.97	98.3	2.00	2.15	
Toluene*	<0.050	0.050	10/01/2022	ND	1.97	98.3	2.00	3.14	
Ethylbenzene*	<0.050	0.050	10/01/2022	ND	1.95	97.6	2.00	2.66	
Total Xylenes*	<0.150	0.150	10/01/2022	ND	5.92	98.7	6.00	3.03	
Total BTEX	<0.300	0.300	10/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/30/2022	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	09/30/2022	ND	216	108	200	3.32	
DRO >C10-C28*	<10.0	10.0	09/30/2022	ND	207	104	200	5.24	
EXT DRO >C28-C36	<10.0	10.0	09/30/2022	ND					

Surrogate: 1-Chlorooctane 91.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 111 % 46.3-178

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**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	09/28/2022	Sampling Date:	09/28/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	TENNECO CTB	Sampling Condition:	** (See Notes)
Project Number:	700438.302.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA CO NM		

**Sample ID: SW . 3 (H224522-21)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2022	ND	1.97	98.3	2.00	2.15	
Toluene*	<0.050	0.050	10/01/2022	ND	1.97	98.3	2.00	3.14	
Ethylbenzene*	<0.050	0.050	10/01/2022	ND	1.95	97.6	2.00	2.66	
Total Xylenes*	<0.150	0.150	10/01/2022	ND	5.92	98.7	6.00	3.03	
Total BTEX	<0.300	0.300	10/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/30/2022	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	09/30/2022	ND	216	108	200	3.32	
DRO >C10-C28*	<10.0	10.0	09/30/2022	ND	207	104	200	5.24	
EXT DRO >C28-C36	<10.0	10.0	09/30/2022	ND					

Surrogate: 1-Chlorooctane 93.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 114 % 46.3-178

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**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	09/28/2022	Sampling Date:	09/28/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	TENNECO CTB	Sampling Condition:	** (See Notes)
Project Number:	700438.302.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA CO NM		

**Sample ID: SW . 4 (H224522-22)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2022	ND	1.97	98.3	2.00	2.15	
Toluene*	<0.050	0.050	10/01/2022	ND	1.97	98.3	2.00	3.14	
Ethylbenzene*	<0.050	0.050	10/01/2022	ND	1.95	97.6	2.00	2.66	
Total Xylenes*	<0.150	0.150	10/01/2022	ND	5.92	98.7	6.00	3.03	
Total BTEX	<0.300	0.300	10/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/30/2022	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	09/30/2022	ND	216	108	200	3.32	
DRO >C10-C28*	<10.0	10.0	09/30/2022	ND	207	104	200	5.24	
EXT DRO >C28-C36	<10.0	10.0	09/30/2022	ND					

Surrogate: 1-Chlorooctane 90.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 113 % 46.3-178

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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

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

**BILL TO**

**ANALYSIS REQUEST**

Company Name: Talon LPE  
 Project Manager:  
 Address: 408 W. Texas Ave  
 City: Artesia State: NM Zip: 88210  
 Phone #: 575.746.8768 Fax #:  
 Project #: 70043830201 Project Owner:  
 Project Name: Levee CTB  
 Project Location: Area  
 Sampler Name: A. Parker  
 FOR LAB USE ONLY

P.O. #:  
 Company:  
 Attn:  
 Address:  
 City:  
 State: Zip:  
 Phone #:  
 Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	ANALYSIS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:			
H04530	5-1A		1								12:00	12:05	CL
	5-2A		1								12:10	12:10	BTB
	5-3A		1								12:15	12:15	TPH
	5-4A		1								12:20	12:25	
	5-5A		3								12:30	13:30	
	5-6A		5								12:35	13:35	
	5-7A		5								12:40	12:40	
	5-8A		5								12:45	12:45	
	5-9A		5								12:45	12:45	
	5-10A		5								12:45	12:45	

PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analysis. 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: [Signature]  
 Date: 10/28/22  
 Time: 10:08  
 Received By: [Signature]  
 Date: [Blank]  
 Time: [Blank]

Delivered By: (Circle One) UPS  Bus  Other: [Blank]  
 11:30 AM 11:30 AM #113  
 Sample Condition: Cool  Intact   
 Checked By: [Signature]

REMARKS:  
 Phone Result:  Yes  No  
 Add'l Phone #: [Blank]  
 Fax Result:  Yes  No  
 Add'l Fax #: [Blank]

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

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

**BILL TO**

**ANALYSIS REQUEST**

Company Name: Talon LPE		P.O. #:	
Project Manager:		Company:	
Address: 408 W. Texas Ave		Attn:	
City: Artesia		Address:	
State: NM zip: 88210		City:	
Phone #: 575.746.8768		State:	
Fax #: _____		Zip:	
Project #: 202438.302.01		Project Owner:	
Project Name: Lawrence STB		Project Location: Dean	
Project Location: Dean		Sample Name: K. Rieker	
Sampler Name: K. Rieker		FOR LAB USE ONLY	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
11024502	S-11A	✓	1							9/28	12:55	CC BTek TPH
13	S-12A	✓	1							10/10	1:05	
14	S-13A	✓	1							11/10	1:10	
15	S-14A	✓	1							11/15	1:20	
16	S-15A	✓	1							11/15	1:20	
17	S-16A	✓	1							11/15	1:20	
18	S-17A	✓	1							11/15	1:20	
19	S-18A	✓	1							11/15	1:30	
20	S-19.1	✓	1							11/15	1:35	
20	S-20.2	✓	1							11/15	1:35	

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: *[Signature]* Date: 9/28/22 Time: 10:08  
 Received By: *[Signature]*  
 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received By: *[Signature]*

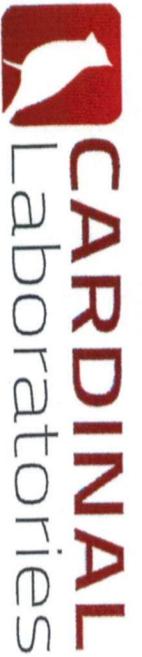
Delivered By: (Circle One)  UPS  Bus  Other: *11:30 #113*

Sample Condition:  Intact  Cool  Yes  No

Checked By: *[Signature]*

REMARKS:

+ Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

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

Company Name: Talon LPE		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>	
Project Manager:		P.O. #:			
Address: 408 W. Texas Ave		Company:			
City: Artesia		Attn:			
State: NM zip: 88210		Address:			
Phone #: 575.746.8768		City:			
Fax #:		State:			
Project #: 705438, 302.01		Zip:			
Project Owner:		Phone #:			
Project Name: Leayre ETR		Fax #:			
Project Location: Lea		PRESERV:			
Sampler Name: H.D. Dicken		SAMPLING			
FOR LAB USE ONLY					
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.		DATE	TIME
		# CONTAINERS			
		GROUNDWATER			
		WASTEWATER			
		SOIL			
		OIL			
		SLUDGE			
		OTHER :			
		ACID/BASE:			
		ICE / COOL			
		OTHER :			

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME						
H021509													9/28	1:40						
01	SD.3	C1	1																	
02	SD.4	C1	1																	

**PLEASE NOTE:** Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: *[Signature]* Date: 9/28/22 Time: 1:48  
 Received By: *[Signature]* Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Delivered By: (Circle One)  UPS  Bus  Other: *1132 #113*

Sample Condition:  Cool  Intact  Yes  No

Checked By: *[Signature]* (Initials)

REMARKS:

+ Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



## Appendix V

### Seed Tag



**BLM 2**  
**Lot #: 2599**  
2.26

Item	% Mix	Origin	Purity	Germ	Dormant	Total Germ:	Test Date
Plains Bristlegrass, Variety Not Stated	50.95%	Oklahoma	99.47%	11.00%	75.00%	86.00%	8/2022
Sand Dropseed, Variety Not Stated	24.39%	Colorado	98.63%	21.00%	77.00%	98.00%	5/2022
Sand Lovegrass, Bend	24.01%	Texas	99.85%	77.00%	21.00%	98.00%	5/2022
BLM #2 Seed Mix	0.00%		99.35%	32.42%	44.56%	77.00%	7/2022
<b>Seed Total</b>	<b>99.35%</b>						
Inert Matter:	0.63%						
Weed Seed:	0.01%						
Other Crop:	0.01%						

Noxious Weed: None

Texas Permit: 2772

Tenneco CTB  
700438.302.01

curtisseed.com

4500 North Prince, Clovis, NM 88101

Bagged into 1) .25 acre broadcast bag (575) 762-4759



## Appendix VI

C-141Forms  
NMOCD  
Correspondence  
Closure Report-  
Approval  
nPAC0731936763

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

State of New Mexico  
Energy Minerals and Natural  
Resources Department

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Incident ID	nAPP2226431261
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party	EOG Resources, Inc.	OGRID	7377
Contact Name	Jeremy Haass	Contact Telephone	575-748-1471
Contact email	Jeremy_Haass@eogresources.com	Incident #	nAPP2226431261
Contact mailing address	104 S. 4th Street, Artesia, NM 88210		

### Location of Release Source

Latitude 33.376796 Longitude -103.477591  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Tenneco SWD Battery	Site Type	Battery
Date Release Discovered	9/20/2022	API#	30-025-25762

Unit Letter	Section	Township	Range	County
P	11	11S	34E	Lea

Surface Owner:  State  Federal  Tribal  Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls)	Unknown	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls)	Unknown	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)		Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)		Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)		Volume/Weight Recovered (provide units)

#### Cause of Release

Historical impacts were discovered during the decommissioning process of the location. The environmental consultant contracted to investigate the area determined on 9/20/2022, based on the impacted area footprint, that the release more than likely breached the reportable volume threshold. Spill at the Battery which is on a different pad from the Wellhead.

Incident ID	
District RP	
Facility ID	
Application ID	

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

### Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: <u>Jeremy Haass</u> Title: <u>Sr. Safety &amp; Environmental Specialist</u> Signature: <u></u> Date: <u>9/20/2022</u> email: <u>jeremy_haass@eogresources.com</u> Telephone: <u>575-748-1471</u>
<b><u>OCD Only</u></b> Received by: _____ Date: _____

Incident ID	nAPP2226431261
District RP	
Facility ID	30-025-25762
Application ID	

## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>24</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

**Characterization Report Checklist:** *Each of the following items must be included in the report.*

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

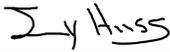
If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods,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

State of New Mexico  
Oil Conservation Division

Page 4

Incident ID	nAPP2226431261
District RP	
Facility ID	30-025-25762
Application ID	

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

Printed Name: Jeremy Haass Title: Sr. Safety & Environmental Specialist  
 Signature:  Date: 10/13/2022  
 email: jeremy\_haass@eogresources.com Telephone: 575-748-7311

**OCD Only**

Received by: Jocelyn Harimon Date: 10/17/2022

Incident ID	nAPP2226431261
District RP	
Facility ID	30-025-25762
Application ID	

## Remediation Plan

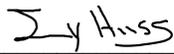
**Remediation Plan Checklist:** Each of the following items must be included in the plan.

- Detailed description of proposed remediation technique
- Scaled sitemap with GPS coordinates showing delineation points
- Estimated volume of material to be remediated
- Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only:** Each of the following items must be confirmed as part of any request for deferral of remediation.

- Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- Extents of contamination must be fully delineated.
- Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Jeremy Haass Title: Sr. Safety & Environmental Specialist  
 Signature:  Date: 10/13/2022  
 email: jeremy\_haass@eogresources.com Telephone: 575-748-7311

**OCD Only**

Received by: Jocelyn Harimon Date: 10/17/2022

- Approved       Approved with Attached Conditions of Approval       Denied       Deferral Approved

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	nAPP2226431261
District RP	
Facility ID	30-025-25762
Application ID	

## Closure

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

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

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

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

Printed Name: Jeremy Haass Title: Sr. Safety & Environmental Specialist  
 Signature:  Date: 10/13/2022  
 email: jeremy haass@eogresources.com Telephone: 575-748-7311

**OCD Only**

Received by: Jocelyn Harimon Date: 10/17/2022

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

Closure Approved by:  Date: 11/10/2022  
 Printed Name: Jennifer Nobui Title: Environmental Specialist A

## Rebecca Pons

---

**From:** Jeremy Haass <Jeremy\_Haass@eogresources.com>  
**Sent:** Monday, September 26, 2022 11:02 AM  
**To:** Rebecca Pons  
**Subject:** FW: Tenneco SWD Battery (nAPP2226431261) Sampling Notification

This message originated from an **External Source**. Please use proper judgment and caution when opening attachments, clicking links, or responding to this email.

FYI

### **Jeremy Haass**

**Safety & Environmental Specialist**

**EOG Resources – Artesia Division**

**104 S. 4<sup>th</sup> Street**

**Artesia, NM 88210**

**Office: (575) 748-4311**

**Fax: (575) 748-4131**

**Cell: (575) 513-9235**

[jeremy\\_haass@eogresources.com](mailto:jeremy_haass@eogresources.com)



---

**From:** Tina Huerta <Tina\_Huerta@eogresources.com>  
**Sent:** Monday, September 26, 2022 11:01 AM  
**To:** ocd.enviro@emnrd.nm.gov; rmann@slo.state.nm.us; mnaranjo@slo.state.nm.us  
**Cc:** Artesia S&E Spill Remediation <Artesia\_S&E\_Spill\_Remediation@eogresources.com>; Artesia Regulatory <Artesia\_Regulatory@eogresources.com>  
**Subject:** Tenneco SWD Battery (nAPP2226431261) Sampling Notification

Good Morning,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Tenneco SWD Battery  
P-11-11S-34E  
Lea County, NM  
nAPP2226431261

Sampling will begin at 12:00 p.m. on Wednesday, September 28, 2022.

Thank you,

*Tina Huerta*  
*Regulatory Specialist*  
*Direct: 575.748.4168*

Cell: 575.703.3121

Email: [tina\\_huerta@eogresources.com](mailto:tina_huerta@eogresources.com)



**Artesia Division**

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

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

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

Incident ID	NPAC0731936763
District RP	1RP-1659
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party EOG Resources, Inc.	OGRID 7377
Contact Name Chase Settle	Contact Telephone 575-748-1471
Contact email Chase_Settle@eogresources.com	Incident # (assigned by OCD) NPAC0731936763
Contact mailing address 104 S. 4th Street, Artesia, NM 88210	

### Location of Release Source

Latitude 33.37686 Longitude -103.47755  
*(NAD 83 in decimal degrees to 5 decimal places)*

Site Name Tenneco SWD Battery	Site Type Battery
Date Release Discovered 10/26/2007	API# (if applicable) 30-025-25762

Unit Letter	Section	Township	Range	County
J	11	11S	34E	Lea

Surface Owner:  State  Federal  Tribal  Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 100	Volume Recovered (bbls) 75
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release Please refer to the original C-141 form for 1RP-1659 cause of release and immediate actions. EOG Resources, Inc. is submitting this new form to formally close out the incident. All original reports and correspondence are also attached.

Incident ID	NPAC0731936763
District RP	1RP-1659
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? <b>Greater than 25 barrels of fluid was released.</b>
---	---

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?  
**Yes, phone and follow email to the current OCD District I employees at the time.**

### Initial Response

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

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

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

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

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

Printed Name: Chase Settle Title: Rep Safety & Environmental Sr  
 Signature: *Chase Settle* Date: 10/25/2021  
 email: Chase\_Settle@eogresources.com Telephone: 575-748-1471

**OCD Only**  
 Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	NPAC0731936763
District RP	1RP-1659
Facility ID	
Application ID	

### Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	_____ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

**Characterization Report Checklist:** *Each of the following items must be included in the report.*

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

State of New Mexico  
Oil Conservation Division

Incident ID	NPAC0731936763
District RP	1RP-1659
Facility ID	
Application ID	

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

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

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

Incident ID	NPAC0731936763
District RP	1RP-1659
Facility ID	
Application ID	

## Remediation Plan

**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

- Detailed description of proposed remediation technique
- Scaled sitemap with GPS coordinates showing delineation points
- Estimated volume of material to be remediated
- Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only:** *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- Extents of contamination must be fully delineated.
- Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

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

Approved       Approved with Attached Conditions of Approval       Denied       Deferral Approved

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Form C-141

State of New Mexico  
Oil Conservation Division

Page 6

Incident ID	NPAC0731936763
District RP	1RP-1659
Facility ID	
Application ID	

## Closure

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

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

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

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

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

Description of remediation activities

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

Printed Name: Chase Settle Title: Rep Safety and Environmental Sr  
 Signature:  Date: 10/25/2021  
 email: Chase\_Settle@eogresources.com Telephone: 575-748-1471

**OCD Only**

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

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

Closure Approved by:  Date: 11/02/2021  
 Printed Name: Bradford Billings Title: Envi.Spec.A

MARTIN YATES, III  
1912-1985

FRANK W. YATES  
1936-1986



105 SOUTH FOURTH STREET  
ARTESIA, NEW MEXICO 88210-2118  
TELEPHONE (505) 748-1471

S.P. YATES  
CHAIRMAN EMERITUS  
JOHN A. YATES  
CHAIRMAN OF THE BOARD  
PEYTON YATES  
PRESIDENT  
FRANK YATES, JR.  
EXECUTIVE VICE PRESIDENT  
JOHN A. YATES, JR.  
SENIOR VICE PRESIDENT

December 28, 2007

Mr. Chris Williams  
NMOCD District I  
1625 French Drive  
Hobbs, NM 88240

Re: Tenneco SWD Battery  
1RP-1659  
30-025-25762  
Section 11, T11S-R34E  
Lea County, New Mexico

Dear Mr. Williams:

Yates Petroleum Corporation would like to submit for your consideration the enclosed work plan for the above captioned battery, this work plan address' the release which occurred on October 26, 2007 and corrective actions.

If you have any questions call me at (505) 748-4217

Thank you.

YATES PETROLEUM CORPROATION

Robert Asher  
Environmental Regulatory Agent

Enclosure(s)

**Yates Petroleum Corporation**

**Tenneco SWD Battery**

**Section 11, T11S-R34E**

**Lea County, New Mexico**

**December 28, 2007**

**I. Location**

The well is located approximately 10 miles northwest of Tatum, NM; approximately 6 miles north of U. S. Highway 380 as represented by the attached , Johnson Ranch, NM, USGS Quadrangle Map.

**II. Background**

On November 7, 2007, Yates submitted to the NMOCD District I office a C-141 report reflecting a release of approximately 100 barrels of produced water from suction line on a transfer pump that broke, resulting in the produced water release from tank, the line has been repaired. The affected area is approximately 42 feet by 110 feet. Contaminated soils are being excavated and taken to an OCD approved facility and samples were taken and sent to an OCD approved laboratory (sample diagram enclosed).

**III. Surface and Ground Water**

Area surface geology is Cenozoic. The nearest groundwater of record listed on the ChevronTexaco, Lea County Depth to Groundwater Water Well Facilities Trend Map dated 2/9/2005 shows depth to groundwater approximately 30 feet making the site ranking a twenty (20). Watercourses in the area are dry.

The ranking for this site is twenty (20) based on the as following:

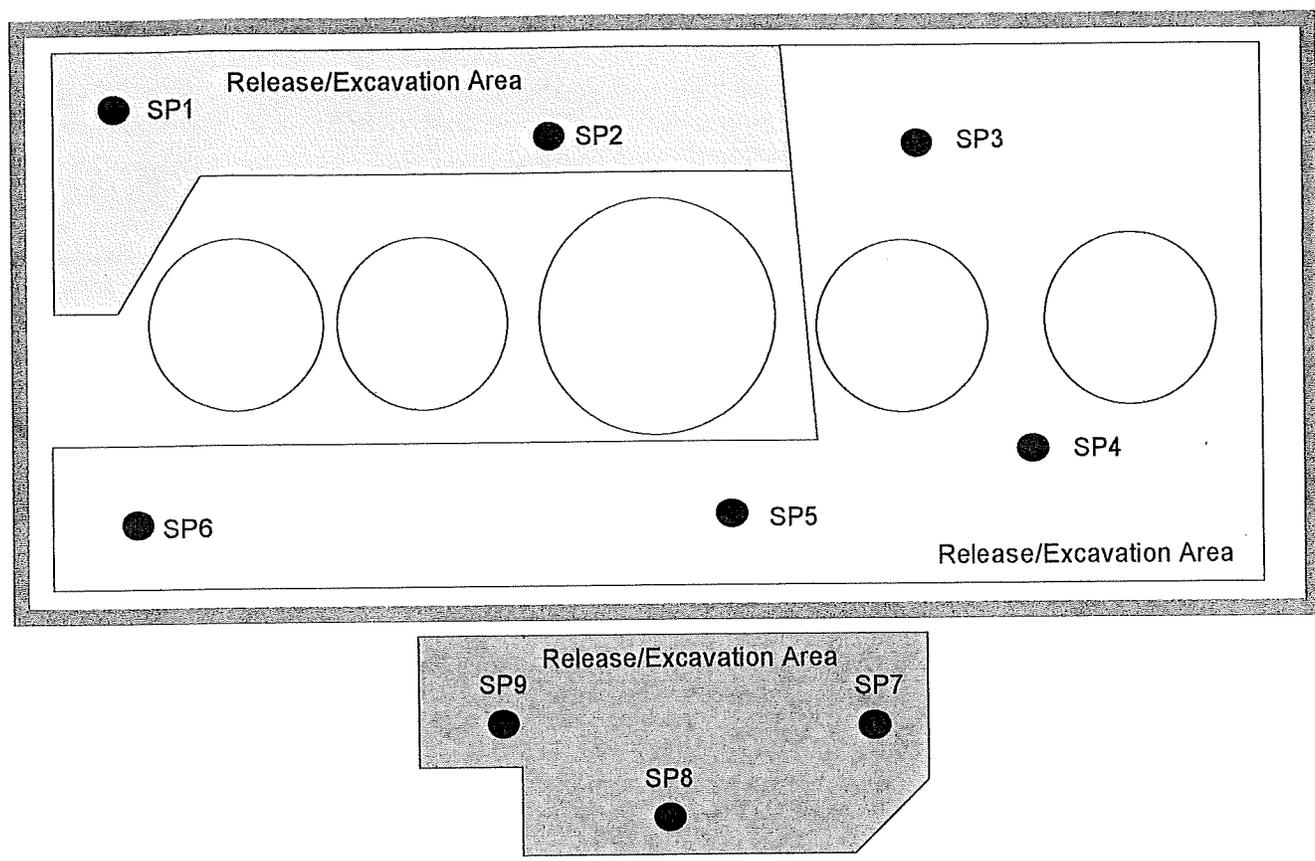
- Depth to ground water < 50'
- Wellhead Protection Area > 1000'
- Distance to surface water body > 1000'

**IV. Soils**

The area consists of native soils, interspersed with caliche and clay seams providing a low permeability barrier to retard vertical percolation of contaminants into the subsurface.

**V. Scope of Work**

Upon approval of this work plan, Yates Petroleum Corporation will have a contractor continue excavation of contaminated soils to an approximate total depth of 2.5 feet (soils taken to an OCD approved facility) and take soil samples within the effected area. These samples will be sent to a certified lab and analyzed for BTEX, TPH and Chlorides (for reference purposes). Based on the Total Ranking Score of twenty (20), the RRAL's for BTEX is 50 ppm and TPH is 100 ppm. If these results are above OCD guidelines, then continued remediation will be implemented. If lab analysis reflects closure levels then Yates will contact the Oil Conservation Division to give opportunity to witness a final sampling event. A final C-141 and attached analytical results will be submitted to the OCD requesting closure.



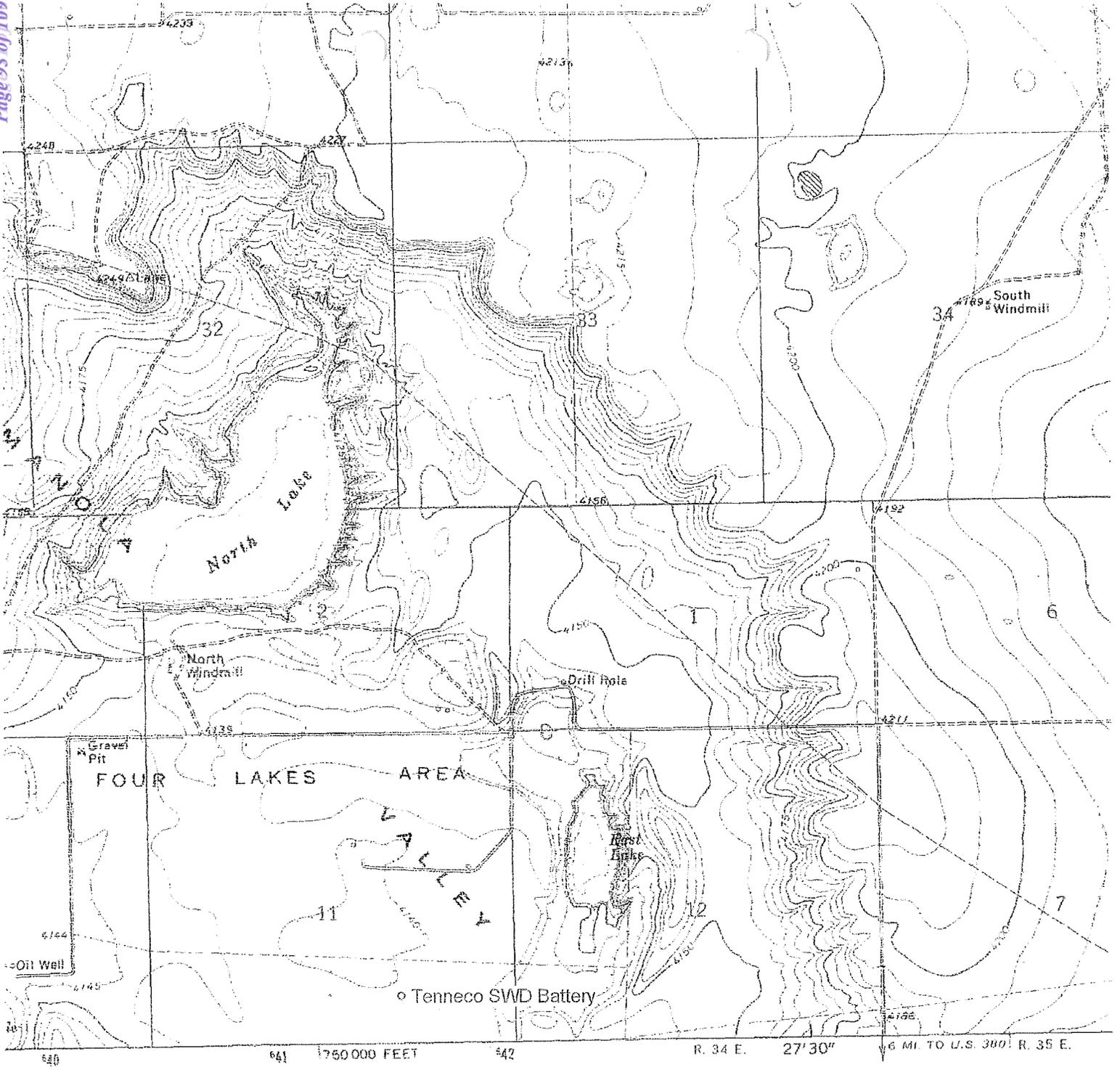
Sample ID	Sample Date	Sample Type	Depth	Chlorides	BTEX	TPH (GRO)	TPH (DRO)	TPH (TOTAL)
SP1	11/5/2007	Grab	24"	4,350	0.793	681	687	1368.0
SP2	11/5/2007	Grab	24"	2,060	<0.020	20.8	2790	2810.8
Sample ID	Sample Date	Sample Type	Depth	Chlorides	BTEX	TPH (GRO)	TPH (DRO)	TPH (TOTAL)
SP3	11/5/2007	Grab	12"	4840	<0.010	2.78	<50.0	<50.0
SP4	11/5/2007	Grab	12"	3200	<0.010	1.65	<50.0	<50.0
SP5	11/5/2007	Grab	12"	5430	<0.010	1.25	<50.0	<50.0
SP6	11/5/2007	Grab	12"	7350	<0.010	1.00	<50.0	<50.0
Sample ID	Sample Date	Sample Type	Depth	Chlorides	BTEX	TPH (GRO)	TPH (DRO)	TPH (TOTAL)
SP7	11/5/2007	Grab	12"	<100	<0.010	<1.0	<50.0	<50.0
SP8	11/5/2007	Grab	12"	4840	0.0422	<1.0	<50.0	<50.0
SP9	11/5/2007	Grab	12"	4830	<0.010	<1.0	<50.0	<50.0

Site Ranking is Twenty (20). Depth to Ground Water < 50' (approx. 30'). All results are ppm.



**Tenneco SWD Battery**  
**Section 11, T11S-R34E**  
**Lea County, NM**

**EXHIBIT**  
 Sample Diagram (Not to Scale)  
 Prepared by Robert Asher  
 Environmental Regulatory Agent  
 December 28, 2007



edited, and published by the Geological Survey

USGS and NOS/NOAA

by photogrammetric methods from aerial photographs  
Topography by planetable surveys 1970

projection. 10,000-foot grid ticks based on New Mexico  
system, east zone

Universal Transverse Mercator grid ticks,  
shown in blue

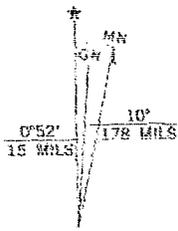
North American Datum

the predicted North American Datum 1983

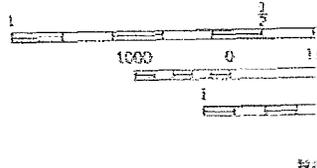
projection lines 7 meters south and  
east as shown by dashed corner ticks

Dashed lines indicate selected fence lines

shown in purple and woodland compiled from aerial  
photos taken 1982 and other sources. This information  
is unclassified. Map edited 1984



UTM GRID AND 1984 MAGNETIC NORTH  
DECLINATION AT CENTER OF SHEET



THIS MAP  
FOR SALE BY U. S. GEOLOGIC  
A FOLDER DESCRIPTION

District I  
625 N French Dr, Hobbs, NM 88240  
District II  
1301 W Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S St Francis Dr, Santa Fe, NM 87505

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

Form C-141  
Revised October 10, 2003

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

Release Notification and Corrective Action

OPERATOR

Initial Report  Final Report

Name of Company YATES PETROLEUM CORPORATION	OGRID Number 25575	Contact SHERRY BONHAM
Address 105 S 4 <sup>TH</sup> STREET		Telephone No. 505 748.1471
Facility Name TENNECO SWD BATTERY	API Number	Facility Type TANK BATTERY
Surface Owner STATE	Mineral Owner STATE	Lease No

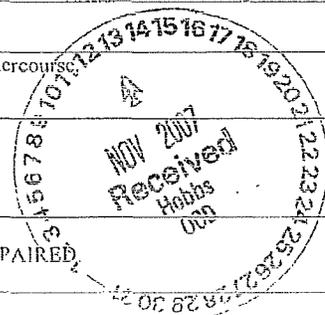
LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	11	11S	34E					Lea

Latitude 33.37686 Longitude 103.47755

NATURE OF RELEASE

Type of Release PRODUCED WATER	Volume of Release 100 B/PW	Volume Recovered 75 B/PW
Source of Release TANK	Date and Hour of Occurrence 10/26/07 1200 HRS	Date and Hour of Discovery 10/26/07 1300 HRS
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? PAT RICHARDS VIA PHONE CALL and FOLLOW-UP E-MAIL	
By Whom? SHERRY BONHAM	Date and Hour 10/26/07 1325 HRS	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse N/A	
If a Watercourse was Impacted, Describe Fully.* N/A		
Describe Cause of Problem and Remedial Action Taken.* SUCTION LINE ON TRANSFER PUMP BROKE OFF RESULTING IN FLUID LOSS FROM TANK. LINE REPAIRED		
Describe Area Affected and Cleanup Action Taken * APPROXIMATELY 42' X 110' AREA IMPACTED. RELEASE WATER CHLORIDE CONTENT APPROXIMATELY 20,661.0 mg/L FREE STANDING FLUIDS RECOVERED BY VACUUM TRUCK. EXCAVATED RELEASE-IMPACTED SOILS AND HAULED TO DISPOSAL FACILITY. SOIL SAMPLES OBTAINED AND SUBMITTED TO LABORATORY TO BE ANALYZED FOR BTEX, TPH, AND CHLORIDES. SHOULD ANALYTICALS REPORT BTEX OR TPH TO BE OVER RRALS, A REMEDIATION PLAN WILL BE SUBMITTED TO OCD. CHLORIDES WILL BE DOCUMENTED. SHOULD ANALYTICAL REPORT FOR BTEX OR TPH BE BELOW RRALS, A FINAL C-141 WILL BE SUBMITTED TO OCD REQUESTING CLOSURE FOR RELEASE OCCURRING OCTOBER 26, 2007.		
Depth to Ground Water: <50'; Wellhead Protection Area: >1000'; Distance to Surface Water Body: >1000'. Site Ranking: 20.		



I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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

OIL CONSERVATION DIVISION

Signature 	Approved by District Supervisor: 
Printed Name: Sherry Bonham	Approval Date: 11/14/07 Expiration Date: 2/14/07
Title: Environmental Regulatory Agent	Conditions of Approval:
E-mail Address: sherryb@ypcnm.com	Attached <input type="checkbox"/>
Date: November 7, 2007 Phone: 505.748.1471	

\* Attach Additional Sheets If Necessary

RP# 1659

MARTIN YATES, III  
1912-1985

FRANK W. YATES  
1936-1986



105 SOUTH FOURTH STREET  
ARTESIA, NEW MEXICO 88210-2118  
TELEPHONE (575) 748-1471

S.P. YATES  
CHAIRMAN EMERITUS  
JOHN A. YATES  
CHAIRMAN OF THE BOARD  
FRANK YATES, JR.  
PRESIDENT  
PEYTON YATES  
DIRECTOR  
JOHN A. YATES, JR.  
DIRECTOR

March 27, 2008

Mr. Chris Williams  
NMOCD District I  
1625 French Drive  
Hobbs, NM 88240

RE: 1RP-1659  
Tenneco SWD #1  
30-025-25762  
Section 2, T11S-R34E  
Lea County, New Mexico

Dear Mr. Williams,

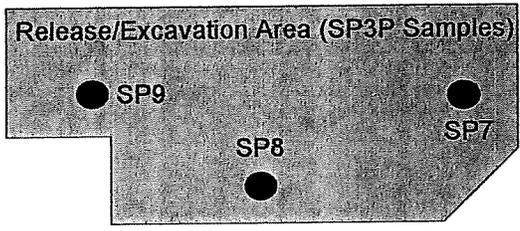
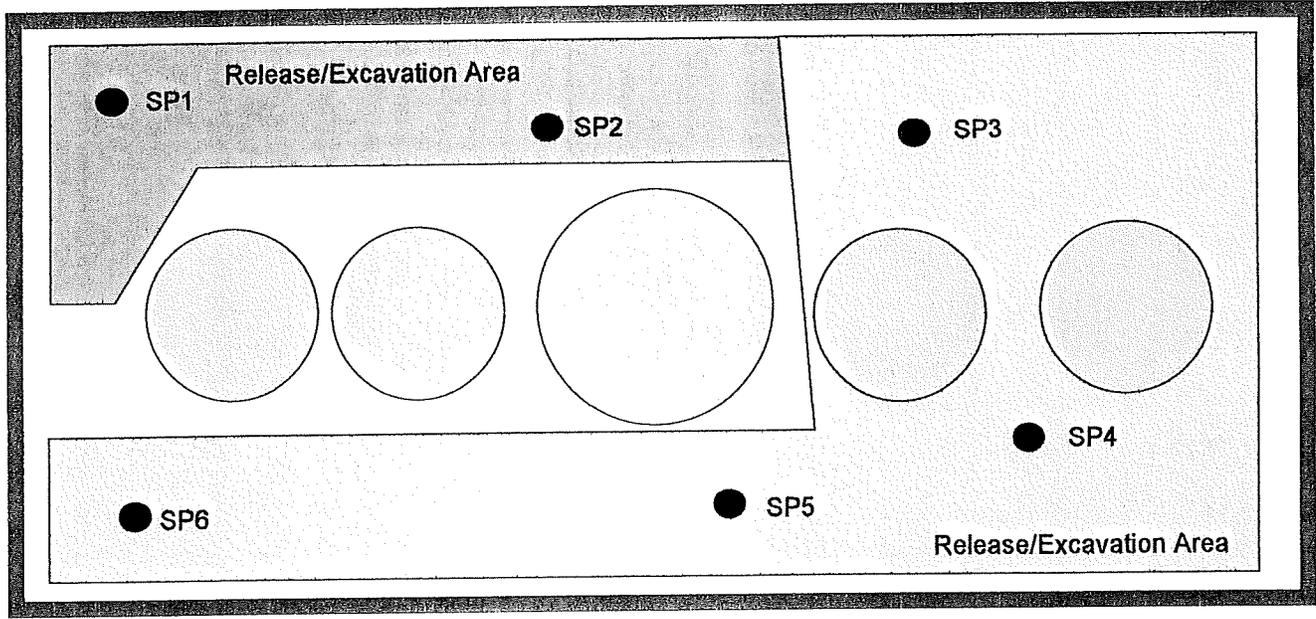
Enclosed please find a Form C-141, Final Report for the above captioned site regarding the release on October 26, 2007 (100 B/PW with 75 B/PW recovered), a suction line on a transfer pump broke off causing the release. Contaminated soils were excavated and taken to an OCD approved land disposal facility. Samples have been taken and tested (please see attached analytical reports and sample diagram), sample depths range from 12" to 72" with a rock barrier being encountered at 7 feet deep. Please note that with the results there is no correlation between the chloride content of the produced water released (20,661 ppm) and the chloride content in samples analyzed. Site ranking is twenty (20), with the depth to ground water < 50' (approximately 30'). Upon approval of this final report, Yates will have a contractor backfill all excavated areas with clean material, a 20 mil. liner will then be placed inside the entire battery area to prevent any further produced water and or oil to go into the soils. Based on the cleanup and remedial actions taken (excavation of contaminated soils, and analytical sampling results, liner installation), Yates is pursuing to protect fresh water, public health and the environment within the release area, Yates Petroleum Corporation requests no further remediation and site closure.

If you have any questions, please call me at 505-748-4217.

Thank you.

YATES PETROLEUM CORPORATION

Robert Asher  
Environmental Regulatory Agent



Sample ID	Sample Date	Sample Type	Depth	Chlorides	BTEX	TPH (GRO)	TPH (DRO)	TPH (TOTAL)
SP1	11/5/2007	Grab	24"	4,350	0.793	681	687	1368.0
SP1	2/12/2008	Grab	48"	891		<1.0	<50.0	<50.0
SP2	11/5/2007	Grab	24"	2,060	<0.020	20.8	2790	2810.8
SP2	2/12/2008	Grab	48"	8,850		<1.0	<50.0	<50.0
SP2	3/5/2008	Grab	60"	3,690				
SP2	3/5/2008	Grab	72"	3,460				
Sample ID	Sample Date	Sample Type	Depth	Chlorides	BTEX	TPH (GRO)	TPH (DRO)	TPH (TOTAL)
SP3	11/5/2007	Grab	12"	4840	<0.010	2.78	<50.0	<50.0
SP4	11/5/2007	Grab	12"	3200	<0.010	1.65	<50.0	<50.0
SP5	11/5/2007	Grab	12"	5430	<0.010	1.25	<50.0	<50.0
SP6	11/5/2007	Grab	12"	7350	<0.010	1.00	<50.0	<50.0
Sample ID	Sample Date	Sample Type	Depth	Chlorides	BTEX	TPH (GRO)	TPH (DRO)	TPH (TOTAL)
SP7	11/5/2007	Grab	12"	<100	<0.010	<1.0	<50.0	<50.0
SP8	11/5/2007	Grab	12"	4840	0.0422	<1.0	<50.0	<50.0
SP9	11/5/2007	Grab	12"	4830	<0.10	<1.0	<50.0	<50.0
SP3P	3/5/2008	Grab	18"	2880				
SP3P	3/5/2008	Grab	30"	1575				



**Tenneco SWD Battery**  
**Section 11, T11S-R34E**  
**Lea County, NM**

**EXHIBIT**  
**Sample Diagram (Not to Scale)**  
 Prepared by Robert Asher  
 Environmental Regulatory Agent  
 March 27, 2008

## Summary Report

Sherry Bonham  
 Yates Petroleum Corp.  
 105 South 4th South  
 Artesia, NM, 88210

Report Date: November 13, 2007

Work Order: 7110621



Project Location: Lea County, NM  
 Project Name: Tenneco SWD #1  
 Project Number: YATES025SPL2

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
141988	SP-1 24 inches	soil	2007-11-05	11:40	2007-11-06
141989	SP-2 24 inches	soil	2007-11-05	11:59	2007-11-06
141990	SP-3 12 inches	soil	2007-11-05	12:03	2007-11-06
141991	SP-4 12 inches	soil	2007-11-05	12:10	2007-11-06
141992	SP-5 12 inches	soil	2007-11-05	12:19	2007-11-06
141993	SP-6 12 inches	soil	2007-11-05	12:29	2007-11-06
141994	SP-7 12 inches	soil	2007-11-05	12:35	2007-11-06
141995	SP-8 12 inches	soil	2007-11-05	12:40	2007-11-06
141996	SP-9 12 inches	soil	2007-11-05	12:45	2007-11-06

Sample - Field Code	BTEX				TPH DRO	TPH GRO
	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylene (mg/Kg)	DRO (mg/Kg)	GRO (mg/Kg)
141988 - SP-1 24 inches	<0.0200	<0.0200	<0.0200	0.793	687	681
141989 - SP-2 24 inches	<0.0200	<0.0200	<0.0200	<0.0200	2790	20.8
141990 - SP-3 12 inches	<0.0100	<0.0100	<0.0100	<0.0100	<50.0	2.78
141991 - SP-4 12 inches	<0.0100	<0.0100	<0.0100	<0.0100	<50.0	1.65
141992 - SP-5 12 inches	<0.0100	<0.0100	<0.0100	<0.0100	<50.0	1.25
141993 - SP-6 12 inches	<0.0100	<0.0100	<0.0100	<0.0100	<50.0	1.00
141994 - SP-7 12 inches	<0.0100	<0.0100	<0.0100	<0.0100	<50.0	<1.00
141995 - SP-8 12 inches	<0.0100	<0.0100	<0.0100	0.0422	<50.0	<1.00
141996 - SP-9 12 inches	<0.0100	<0.0100	<0.0100	<0.0100	<50.0	<1.00

### Summary Report

Eb Taylor  
Talon LPE-Hobbs  
318 E Taylor  
Hobbs, NM, 88240

Report Date: November 13, 2007

Work Order: 7110623



Project Location: Lea County, NM  
Project Name: Tenneco SWD #1  
Project Number: YATES025SPL2

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
141997	SP-1 24 inches	soil	2007-11-05	11:40	2007-11-06
141998	SP-2 24 inches	soil	2007-11-05	11:59	2007-11-06
141999	SP-3 12 inches	soil	2007-11-05	12:03	2007-11-06
142000	SP-4 12 inches	soil	2007-11-05	12:10	2007-11-06
142001	SP-5 12 inches	soil	2007-11-05	12:19	2007-11-06
142002	SP-6 12 inches	soil	2007-11-05	12:29	2007-11-06
142003	SP-7 12 inches	soil	2007-11-05	12:35	2007-11-06
142004	SP-8 12 inches	soil	2007-11-05	12:40	2007-11-06
142005	SP-9 12 inches	soil	2007-11-05	12:45	2007-11-06

Sample: 141997 - SP-1 24 inches

Param	Flag	Result	Units	RL
Chloride		4350 ✓	mg/Kg	2.00

Sample: 141998 - SP-2 24 inches

Param	Flag	Result	Units	RL
Chloride		2060 ✓	mg/Kg	2.00

Sample: 141999 - SP-3 12 inches

Param	Flag	Result	Units	RL
Chloride		4840 ✓	mg/Kg	2.00

Sample: 142000 - SP-4 12 inches

Report Date: November 13, 2007  
YATES025SPL2

Work Order: 7110623  
Tenneco SWD #1

Page Number: 2 of 2  
Lea County, NM

---

Param	Flag	Result	Units	RL
Chloride		3200	mg/Kg	2.00

---

Sample: 142001 - SP-5 12 inches

---

Param	Flag	Result	Units	RL
Chloride		5430	mg/Kg	2.00

---

Sample: 142002 - SP-6 12 inches

---

Param	Flag	Result	Units	RL
Chloride		7350	mg/Kg	2.00

---

Sample: 142003 - SP-7 12 inches

---

Param	Flag	Result	Units	RL
Chloride		<100	mg/Kg	2.00

---

Sample: 142004 - SP-8 12 inches

---

Param	Flag	Result	Units	RL
Chloride		4840	mg/Kg	2.00

---

Sample: 142005 - SP-9 12 inches

---

Param	Flag	Result	Units	RL
Chloride		4830	mg/Kg	2.00

---

Report Date: February 14, 2008  
 YATES025SPL2

Work Order: 8021219  
 Tenneco SWD #1

Page Number: 1 of 1  
 Lea County, NM

## Summary Report

Eb Taylor  
 Talon LPE-Hobbs  
 318 E Taylor  
 Hobbs, NM, 88240

Report Date: February 14, 2008

Work Order: 8021219



Project Location: Lea County, NM  
 Project Name: Tenneco SWD #1  
 Project Number: YATES025SPL2

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
150408	Sp 1 @ 48 inches	soil	0208-02-12	10:15	2008-02-12
150409	Sp 2 @ 48 inches	soil	0208-02-12	10:18	2008-02-12

Sample - Field Code	TPH DRO DRO (mg/kg)	TPH GRO GRO (mg/kg)
150408 - Sp 1 @ 48 inches	<50.0	<1.00
150409 - Sp 2 @ 48 inches	<50.0	<1.00

### Summary Report

Eb Taylor  
Talon LPE-Hobbs  
318 E Taylor  
Hobbs, NM, 88240

Report Date: February 14, 2008

Work Order: 8021218



Project Location: Lea County, NM  
Project Name: Tenneco SWD #1  
Project Number: YATES025SPL2

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
150406	Sp 1 @ 48 inches	soil	2008-02-12	10:15	2008-02-12
150407	Sp 2 @ 48 inches	soil	2008-02-12	10:18	2008-02-12

Sample: 150406 - Sp 1 @ 48 inches

Param	Flag	Result	Units	RL
Chloride		891	mg/Kg	2.00

Sample: 150407 - Sp 2 @ 48 inches

Param	Flag	Result	Units	RL
Chloride		8850	mg/Kg	2.00

### Summary Report

Robert Asher  
Yates Petroleum Corp.  
105 South 4th South  
Artesia, NM, 88210

Report Date: March 26, 2008

Work Order: 8032518



Project Location: Lea County, NM  
Project Name: Tenneco SWD  
Project Number: YATES025SPL

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
154551	SP3P-30 inches	soil	2008-03-05	12:00	2008-03-25
154552	SP3P-18 inches	soil	2008-03-05	11:30	2008-03-25
154553	SP2-7'	soil	2008-03-05	11:00	2008-03-25
154554	SP2-5'	soil	2008-03-05	10:30	2008-03-25

Sample: 154551 - SP3P-30 inches

Param	Flag	Result	Units	RL
Chloride		1570	mg/Kg	2.00

Sample: 154552 - SP3P-18 inches

Param	Flag	Result	Units	RL
Chloride		2880	mg/Kg	2.00

Sample: 154553 - SP2-7'

Param	Flag	Result	Units	RL
Chloride		3460	mg/Kg	2.00

Sample: 154554 - SP2-5'

Param	Flag	Result	Units	RL
Chloride		3690	mg/Kg	2.00

District I  
1625 N French Dr, Hobbs, NM 88240  
District II  
1301 W Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S St Francis Dr, Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Form C-141  
Revised October 10, 2003

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

Release Notification and Corrective Action

OPERATOR

Initial Report  Final Report

Name of Company YATES PETROLEUM CORPORATION	OGRID Number 25575	Contact SHERRY BONHAM
Address 105 S 4 <sup>TH</sup> STREET		Telephone No. 505 748.1471
Facility Name TENNECO SWD BATTERY	API Number	Facility Type TANK BATTERY

Surface Owner STATE	Mineral Owner STATE	Lease No
------------------------	------------------------	----------

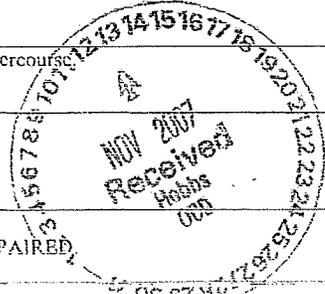
LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	11	11S	34E					Lea

Latitude 33.37686 Longitude 103.47755

NATURE OF RELEASE

Type of Release PRODUCED WATER	Volume of Release 100 B/PW	Volume Recovered 75 B/PW
Source of Release TANK	Date and Hour of Occurrence 10/26/07 1200 HRS	Date and Hour of Discovery 10/26/07 1300 HRS
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? PAT RICHARDS VIA PHONE CALL and FOLLOW-UP E-MAIL	
By Whom? SHERRY BONHAM	Date and Hour 10/26/07 1325 HRS	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse N/A	



If a Watercourse was Impacted, Describe Fully.\*  
N/A

Describe Cause of Problem and Remedial Action Taken.\*  
SUCTION LINE ON TRANSFER PUMP BROKE OFF RESULTING IN FLUID LOSS FROM TANK. LINE REPAIRED.

Describe Area Affected and Cleanup Action Taken \*  
APPROXIMATELY 42' X 110' AREA IMPACTED. RELEASE WATER CHLORIDE CONTENT APPROXIMATELY 20,661.0 mg/L FREE STANDING FLUIDS RECOVERED BY VACUUM TRUCK. EXCAVATED RELEASE-IMPACTED SOILS AND HAULED TO DISPOSAL FACILITY. SOIL SAMPLES OBTAINED AND SUBMITTED TO LABORATORY TO BE ANALYZED FOR BTEX, TPH, AND CHLORIDES. SHOULD ANALYTICALS REPORT BTEX OR TPH TO BE OVER RRALS, A REMEDIATION PLAN WILL BE SUBMITTED TO OCD. CHLORIDES WILL BE DOCUMENTED. SHOULD ANALYTICAL REPORT FOR BTEX OR TPH BE BELOW RRALS, A FINAL C-141 WILL BE SUBMITTED TO OCD REQUESTING CLOSURE FOR RELEASE OCCURRING OCTOBER 26, 2007.

Depth to Ground Water: <5ft; Wellhead Protection Area: >1000'; Distance to Surface Water Body: >1000'. Site Ranking: 20.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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

Signature:	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Sherry Bonham	Approved by District Supervisor:	
Title: Environmental Regulatory Agent	Approval Date: 11/14/07	Expiration Date: 2/4/07
E-mail Address: sherryb@ypcmm.com	Conditions of Approval: Attached <input type="checkbox"/>	
Date: November 7, 2007	Phone: 505.748.1471	

RPA 1659

\* Attach Additional Sheets If Necessary

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-141  
Revised October 10, 2003

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with Rule 116 on back  
side of form

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company Yates Petroleum Corporation	OGRID Number 25575	Contact Robert Asher
Address 104 S. 4 <sup>TH</sup> Street		Telephone No. 505-748-1471
Facility Name Tenneco SWD #1	API Number 30-025-25762	Facility Type SWD
Surface Owner State	Mineral Owner State	Lease No. L-3025

**LOCATION OF RELEASE**

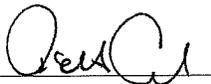
Unit Letter P	Section 11	Township 11S	Range 34E	Feet from the 330	North/South Line South	Feet from the 990	East/West Line East	County Lea
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Latitude 33.38825 Longitude 103.47548

**NATURE OF RELEASE**

Type of Release Produced Water	Volume of Release 100 B/PW	Volume Recovered 75 B/PW
Source of Release Tank	Date and Hour of Occurrence 10/26/2007 - PM	Date and Hour of Discovery 10/26/2007 - PM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES. To Whom? Pat Richards/OCD District I	
By Whom? Sherry Bonham/Yates Petroleum Corporation	Date and Hour 10/26/2007 - PM (Voice Mail & E-mail)	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES. Volume Impacting the Watercourse. N/A	
If a Watercourse was Impacted, Describe Fully.* N/A		
Describe Cause of Problem and Remedial Action Taken.* Suction line on transfer pump broke off resulting in produced water loss from tank. Line repaired.		
Describe Area Affected and Cleanup Action Taken.* An approximate area of 42' X 110', within berm. Approximate chloride content of produced water is 20,661 ppm. Vacuum truck called, remaining produced water. Contaminated soils have been excavated and taken to an OCD approved facility. Delineation has been conducted. <b>Depth to Ground Water: &lt; 50' (approx. 30'), Wellhead Protection Area: No, Distance to Surface Water Body: &gt;1000', SITE RANKING IS 20. Based on amounts recovered, contaminated soils removed, sample results and battery to be lined, Yates Petroleum Corporation requests closure.</b>		

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Robert Asher	Approved by District Supervisor:	
Title: Environmental Regulatory Agent	Approval Date:	Expiration Date:
E-mail Address: boba@ypcnm.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: Thursday, March 27, 2008	Phone: 505-748-4217	

Attach Additional Sheets If Necessary

Page 105 of 109

District I  
25 N. Francis Dr., Hobbs, NM 88240  
District II  
11 W. Grand Avenue, Artesia, NM 88210  
District III  
10 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Form C-141  
Revised October 10, 2003

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

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with Rule 116 on back  
side of form

Release Notification and Corrective Action

OPERATOR

Initial Report  Final Report

Name of Company Yates Petroleum Corporation	OGRID Number 25575	Contact Robert Asher
Address 104 S. 4 <sup>TH</sup> Street	Telephone No. 505-748-1471	
Facility Name Tenneco SWD #1	API Number 30-025-25762	Facility Type SWD

Surface Owner State	Mineral Owner State	Lease No. L-3025
------------------------	------------------------	---------------------

LOCATION OF RELEASE

Unit Letter P	Section 2	Township 11S	Range 34E	Feet from the 330	North/South Line South	Feet from the 990	East/West Line East	County Lea
------------------	--------------	-----------------	--------------	----------------------	---------------------------	----------------------	------------------------	---------------

Latitude 33.38825 Longitude 103.47548

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 100 B/PW	Volume Recovered 75 B/PW
Source of Release Tank	Date and Hour of Occurrence 10/26/2007 - PM	Date and Hour of Discovery 10/26/2007 - PM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Pat Richards/OCD District I	
By Whom? Sherry Bonham/Yates Petroleum Corporation	Date and Hour 10/26/2007 - PM (Voice Mail & E-mail)	<b>RECEIVED</b>
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	
If a Watercourse was Impacted, Describe Fully.* N/A	MAR 27 2008	

**HOBBS OCD**

Describe Cause of Problem and Remedial Action Taken.\*  
Suction line on transfer pump broke off resulting in produced water loss from tank. Line repaired.

Describe Area Affected and Cleanup Action Taken.\*  
An approximate area of 42' X 110', within berm. Approximate chloride content of produced water is 20.661 ppm. Vacuum truck called, remaining produced water. Contaminated soils have been excavated and taken to an OCD approved facility. Delineation has been conducted. **Depth to Ground Water: < 50' (approx. 30'), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 20. Based on amounts recovered, contaminated soils removed, sample results and battery to be lined, Yates Petroleum Corporation requests closure.**

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature:	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Robert Asher	Approved by District Supervisor:	
Title: Environmental Regulatory Agent	Approval Date:	Expiration Date:
Email Address: boba@ypcnm.com	Conditions of Approval:	
Date: Thursday, March 27, 2008 Phone: 505-748-4217	Attached <input type="checkbox"/>	

Attach Additional Sheets If Necessary

Received by OCD: 10/17/2002 1:36:35 PM

Released to Imaging: 11/10/2022 10:51:08 AM

**Bob Asher**

---

**From:** Bob Asher  
**Sent:** Tuesday, June 10, 2008 8:11 AM  
**To:** Chris Williams (chris.williams@state.nm.us)  
**Subject:** Tenneco SWD #1

Chris,

Per our telephone conversation on Tuesday, June 10, 2008. Permission granted from OCD TO Yates Petroleum Corporation to begin backfilling and liner installation.

Thank you.

Robert Asher  
Yates Petroleum Corporation  
Artesia, New Mexico  
505-748-4217 (Office)  
505-365-4021 (Cell)  
505-748-4662 (Fax)

**Bob Asher**

---

**From:** Williams, Chris, EMNRD [chris.williams@state.nm.us]  
**Sent:** Tuesday, June 10, 2008 8:17 AM  
**Subject:** Read: Tenneco SWD #1

Your message

To: chris.williams@state.nm.us  
Subject:

was read on 6/10/2008 8:17 AM.

**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
 Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
 811 S. First St., Artesia, NM 88210  
 Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
 1220 S. St Francis Dr., Santa Fe, NM 87505  
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS  
 Action 57690

**CONDITIONS**

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377 Action Number: 57690 Action Type: [C-141] Release Corrective Action (C-141)
--	---

**CONDITIONS**

Created By	Condition	Condition Date
bbillings	Approved as per rules at the time. There may need to be significant enviro. work on soils at time of P&A of well/system	11/2/2021

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

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

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

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

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

CONDITIONS

Action 151338

**CONDITIONS**

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 151338
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	11/10/2022