



3100 Plains Highway  
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Fax: (575) 396-1429

## **REMEDIATION SUMMARY & SITE CLOSURE REQUEST**

**Chisholm Energy Operating, LLC  
PENNZOIL 3 MESCALERO FED BATTERY  
Lea County, New Mexico  
Unit Letter "I", Section 1, Township 19 South, Range 33 East  
Latitude 32.687958° North, Longitude 103.610569° West  
NMOCD Reference #1RP-4673**

### **Prepared For:**

Chisholm Energy Operating, LLC  
801 Cherry Street, Suite 1200  
Fort Worth, TX 76102

### **Prepared By:**

Etech Environmental & Safety Solutions, Inc.  
3100 Plains Highway  
Lovington, New Mexico 88260

**September 2019**

A handwritten signature in black ink, appearing to read "Daniel Dominguez", is written over a horizontal line.

Daniel Dominguez  
Project Manager



The following Remediation Summary & Closure Request serves as a condensed update on field activities undertaken at the afore referenced Site.

## BACKGROUND

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Chisholm Energy Operating, LLC (Chisholm) has prepared this *Remediation Summary & Site Closure Request* for the release site known as the Pennzoil 3 Mescalero Fed Battery (Pennzoil). The site is located in Unit Letter I (NE ¼ SE ¼), Section 1, Township 19 South, Range 33 East, approximately ten miles south-west of Buckeye, in Lea County, New Mexico. The property is owned by the BLM.

The release site is located within the bermed containment of an active tank battery; latitude 32.687958 North, longitude 103.610569 West. Topographic Map, Aerial Map, Site and Sample Location Map, and USGS Well Proximity Map are included as Figure 1, Figure 2, Figure 3, and Figure 4 respectively.

The Initial NMOCD Form C-141 indicated that on March 27, 2017 approximately 40 barrels of produced water and 25 barrels of oil were released to bermed containment area due to a hole in the heater treater with 30 barrels of fluid recovered. The visually stained area covers approximately 669 square feet. The Initial NMOCD Form C-141 is included as Attachment IV.

## NMOCD SITE CLASSIFICATION

A search for water wells was completed utilizing the New Mexico Office of the State Engineer (NMOSE) and United States Geologic Survey (USGS) websites. There is one well (domestic, agriculture or public) and no bodies of surface water that exist within a 2,000-meter radius of the release site (reference Figure 4). In addition, the Chevron Trend Map (2005) was utilized and indicates average water depth is approximately 200 feet bgs. Search results are included as Attachment II.

Utilizing this information, the NMOCD Closure Criteria for Soils Impacted by a Release indicate the Pennzoil release site to have an initial ranking score of zero. Based on this score, the NMOCD soil remediation levels for vertical delineation, prior to August 14, 2018, were determined as follows:

- Benzene – 10 mg/kg
- Benzene, ethylbenzene, toluene, and xylenes (BTEX) – 50 mg/kg
- Total petroleum hydrocarbons (TPH) – 5,000 mg/kg
- Chloride – 600 mg/kg

## DELINEATION ACTIVITIES

Etech personnel were on site October 11th, 2017, to begin remediation and delineation activities. Initial surface soil sample points were established within the noticeable impacted area. Five soil sample points, SP1 through SP5, were established and advanced vertically for purposes of delineation. Discrete soil samples were retrieved at one (1) foot intervals. Samples were sent to Permian Basin Environmental Laboratories in Midland, Texas and analyzed for



TPH, BTEX, and Chloride. Progressive analyses was utilized once a sample had cleared regulatory threshold levels; the next sample in line for the respective boring was not analyzed.

On December 12, 2017, an Assessment Report & Corrective Action Plan was submitted to the NMOCD proposing remediation activities designed to advance the Site toward regulatory closure. The Assessment Report & Corrective Action Plan was subsequently approved on December 28, 2017.

Please reference the Assessment Report & Corrective Action Plan for additional details regarding site characterization and proposed remediation activities.

### **REMEDICATION ACTIVITIES**

Etech personnel were on site August 27-29, 2018 for excavation and sampling activities. The release area was excavated to approximately one (1) foot bgs with five sampling points selected within the excavated area. Sample locations were selected in the approximate areas of the October 11, 2017 sampling event. Soil samples were retrieved and submitted to Cardinal Laboratories in Hobbs, New Mexico (Cardinal) for analysis of BTEX, TPH, and Chloride.

Laboratory analyses confirmed delineation was achieved for all sample locations. Laboratory analysis does indicate elevated TPH concentrations at SP 4, however, as SP 4 was retrieved against the heater treater, further remediation in this area would compromise the integrity of the treater (reference Figure 3 and Table 1).

Etech personnel returned to the site August 26, 2019 to continue sampling activities. The excavation floor was sampled in the approximate areas of the October 11, 2017 sampling event. The side walls of the excavation were sampled in an effort to determine if horizontal delineation had been achieved. Soil samples were retrieved and submitted to Cardinal for analysis of BTEX, TPH, and Chloride.

Laboratory analyses confirmed delineation was achieved for the floor sample locations. However, laboratory analysis indicated horizontal delineation had not been achieved (reference Figure 3 and Table 1).

On September 19-20, 2019, Etech personnel were on site to complete excavation activities. The sidewalls of the excavation were advanced until laboratory analytical results suggested concentrations of TPH were below 5,000 mg/kg. Soil samples were submitted to Cardinal for analysis of TPH and/or chloride. Laboratory analyses confirmed horizontal delineation had been achieved for all sample locations except SW 4-b. However, as sample SW 4-b was retrieved in the same approximate area as sample SP 4, against the heater treater, further excavation in this area would compromise the integrity of the treater (reference Figure 3 and Table 1). Laboratory analytical reports are provided as Attachment III.

Based upon receipt of laboratory analytical results from confirmation soil samples, and in accordance with the NMOCD approved CAP, a 20-mil polyethylene liner was installed on the floor of the excavation in the area characterized by SP5 and SW 4-b, and the excavation



backfilled with locally sourced, non-impacted like material. Etech maintains excavation of impacted soil in the area characterized by soil sample SW 4-b would require a major facility deconstruction and/or poses a risk to human health and safety.

#### **QA/QC PROCEDURES**

Discrete soil samples were delivered to Cardinal Laboratories in Hobbs, New Mexico, for BTEX, TPH, and chloride analysis. EPA Methods 8021B, SW-846 8015M, and 4500 Cl-B were utilized to determine BTEX, TPH, and Chloride concentrations, respectively. Cleaning of the sampling equipment was the responsibility of the environmental technician. Prior to use, and between each sample, the sampling equipment was cleaned and rinsed with distilled water. The laboratory was responsible for proper QA/QC procedures after signing the chain-of-custody. These procedures were either transmitted with the laboratory reports or are on file at the laboratory.

#### **SITE CLOSURE REQUEST**

The Pennzoil release site has been remediated in accordance with the NMOCD approved Assessment Report & Corrective Action Plan. Impacted soil affected above the NMOCD Closure Criteria has been excavated and transported to an NMOCD approved disposal facility. Confirmation soil samples collected from the Pennzoil excavation were analyzed by an NMOCD approved laboratory, and concentrations of benzene, BTEX, TPH, and chloride were below the regulatory remediation action levels established for the site by the NMOCD in each of the submitted soil samples with the exception of soil sample SW 4-b, which exhibited a TPH concentration of 5,220 mg/kg. Etech maintains excavation of impacted soil in the area characterized by soil sample SW 4-b would require a major facility deconstruction and/or poses a risk to human health and safety.

Etech Environmental recommends Chisholm Energy Operating, LLC provide the NMOCD Hobbs District Office or representative a copy of this *Remediation Summary & Site Closure Request* and request the NMOCD grant site closure to the Pennzoil 3 Mescalero Fed Battery release site.

#### **LIMITATIONS**

Etech Environmental & Safety Solutions, Inc. has prepared this *Remediation Summary & Site Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Etech Environmental has not conducted an independent examination of the facts contained in referenced materials and statements. Etech Environmental has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Etech Environmental has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Chisholm Energy Operating, LLC. The information contained in this report, including all exhibits and attachments, may not be used by



any other party without the express consent of Etech Environmental & Safety Solutions, Inc. and/or Chisholm Energy Operating, LLC.

Should you have any questions or concerns please feel free to contact me at (432) 813-1592 or via email at [danield@etechenv.com](mailto:danield@etechenv.com) or Mr. Tim Green at (432) 413-9747 or via email at [tgreen@chisholmenergy.com](mailto:tgreen@chisholmenergy.com). All official communication should be addressed to:

Mr. Tim Green  
Chisholm Energy Operating, LLC  
801 Cherry Street, Suite 1200  
Fort Worth, TX 76102

Sincerely,

Etech Environmental & Safety Solutions, Inc.

A handwritten signature in black ink, appearing to read "Daniel Dominguez", is written over a light blue circular background.

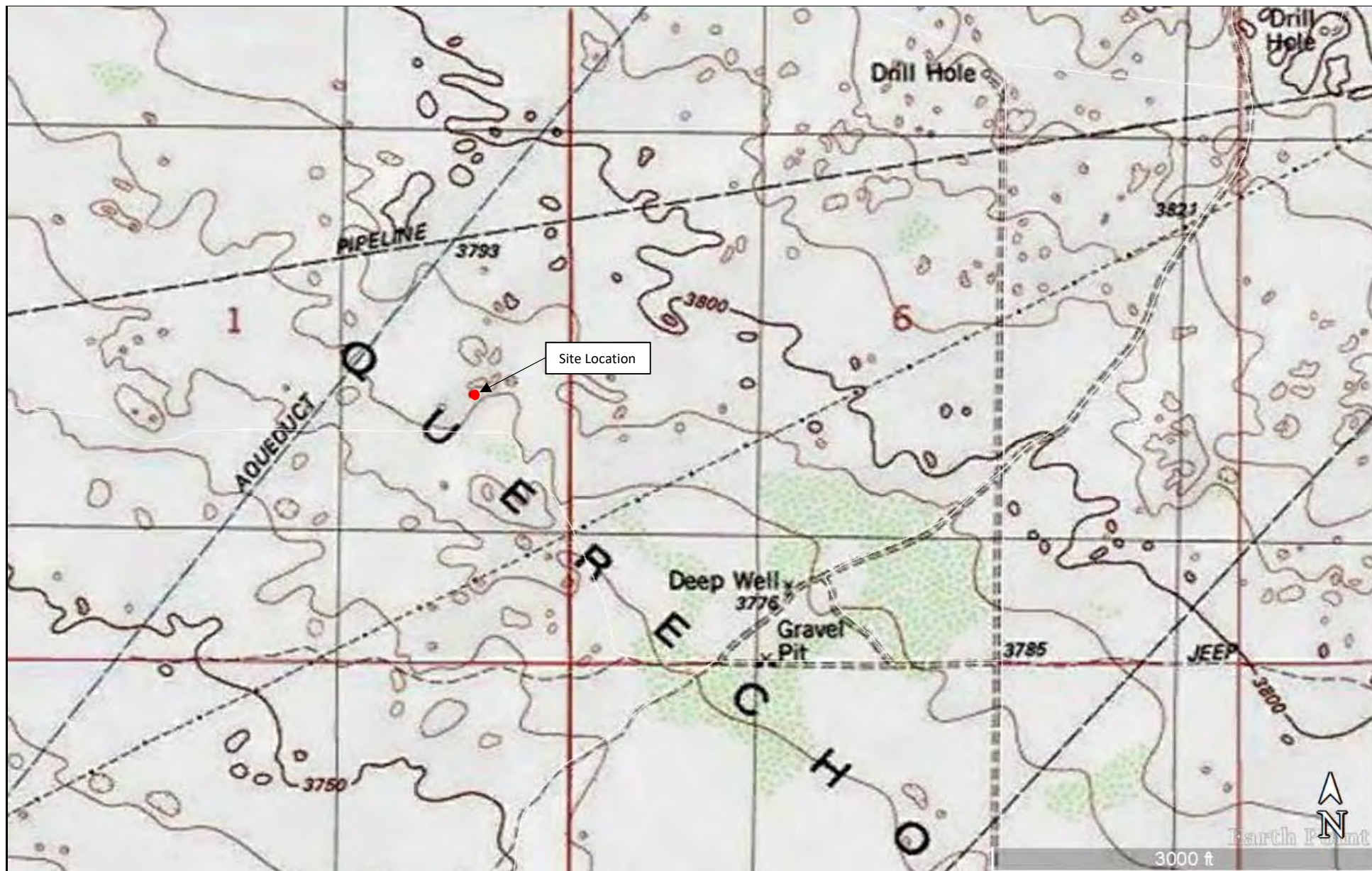
Daniel Dominguez  
Project Manager

cc: Rick Rickman, NMOCD, Hobbs, NM  
Tim Green, Chisholm Energy  
File

Encl.: Figure 1 – Topographic Map  
Figure 2 – Aerial Map  
Figure 3 – Site and Sample Location Map  
Figure 4 – USGS Well Proximity Map  
Table 1 – Concentrations of Benzene, BTEX, TPH, & Chloride in Soil  
Attachment I – Photographs  
Attachment II – Depth to Groundwater  
Attachment III – Laboratory Analytical Results  
Attachment IV – NMOCD Form C-141

## FIGURES





## Legend:

- Site Location

**Figure 1**  
Topographic Map  
Chisholm Energy Operating, LLC  
Pennzoil #3 Battery  
GPS: 32.68795, -103.61056  
Lea County



Drafted:

Checked: jwl

Date:

9/27/19





## Legend:

- Site Location
- Fresh Water Well
- 1/2 Mile Radius

**Figure 2**  
Aerial Map  
Chisholm Energy Operating, LLC  
Pennzoil #3 Battery  
GPS: 32.68795, -103.61056  
Lea County



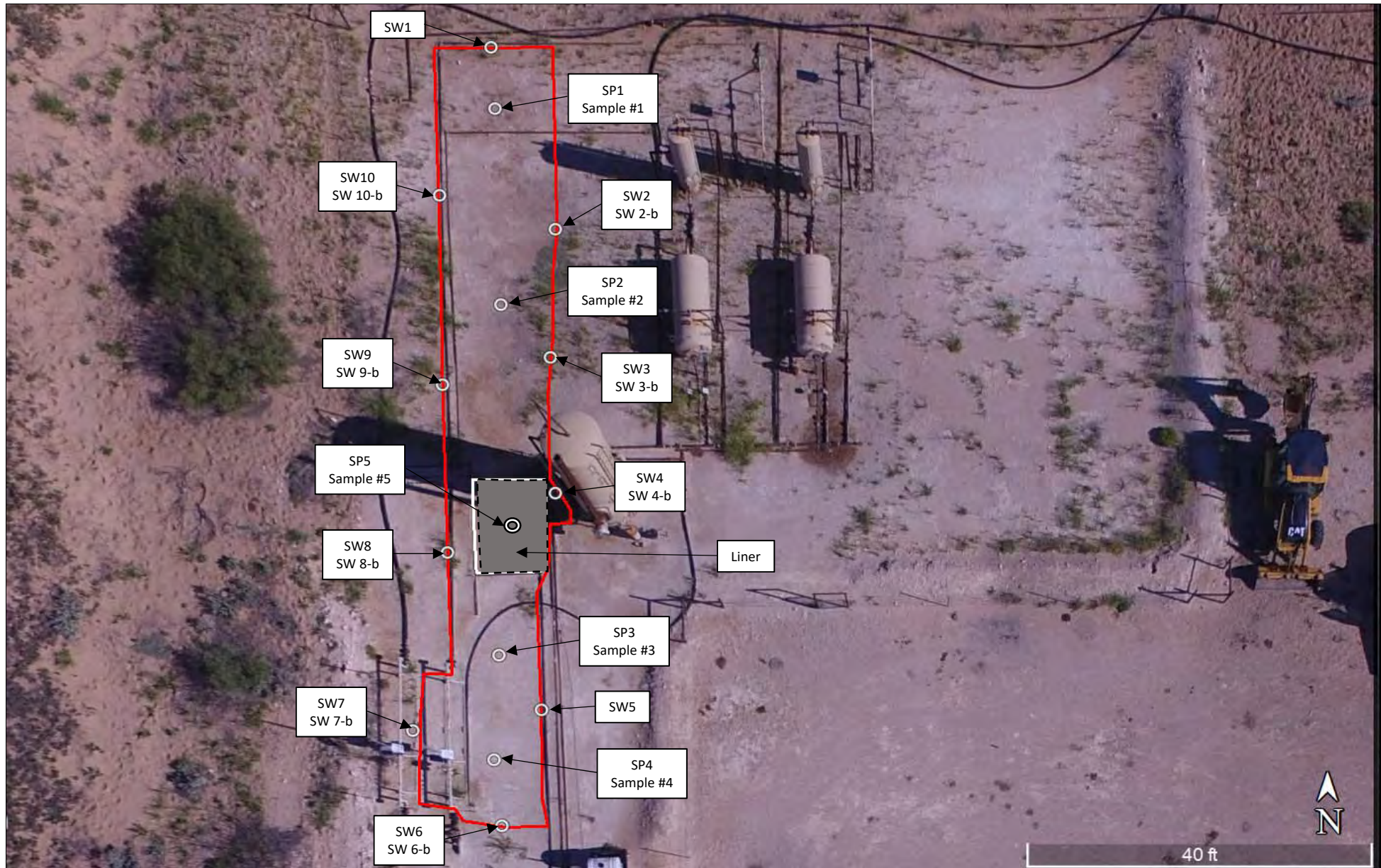
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Date:

9/27/19





## Legend:

- ⊙ Sample Point
- Excavated Area
- Liner

**Figure 3**  
 Site and Sample Location Map  
 Chisholm Energy Operating, LLC  
 Pennzoil #3 Battery  
 GPS: 32.68795, -103.61056  
 Lea County



Drafted:

Checked: jwl

Date:

9/27/19



**Legend:**

- Site Location
- USGS Water Well

**Figure 4**

USGS Well Proximity Map  
Chisholm Energy Operating, LLC  
Pennzoil #3 Battery  
GPS: 32.68795, -103.61056  
Lea County



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Date:

9/30/19

## TABLES



**TABLE 1**  
**CONCENTRATIONS OF BENZENE, BTEX TPH AND CHLORIDE IN SOIL**  
**Chisholm Energy Operating, LLC**  
**Pennzoil #3 Battery**  
**NMOCD Ref. #: 1RP-4673**

Sample ID	Date	Depth	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
SP1 0-1'	10/11/17	0-1'	Excavated	<0.0217	10.164	3,050	9050	12,100	1520	<b>13,600</b>	<1.09
SP1 1-2'	10/11/17	1-2'	In-Situ	<0.00104	<0.00208	<26.0	100	100	29.1	130	4.0
SP1 2-3'	10/11/17	2-3'	In-Situ	-	-	<26.3	<26.3	<26.3	<26.3	<26.3	5.0
SP2 0-1'	10/11/17	0-1'	In-Situ	<0.00110	<0.00220	<27.5	<27.5	<27.5	<27.5	<27.5	<1.10
SP3 0-1'	10/11/17	0-1'	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	<25.8	492
SP4 0-1'	10/11/17	0-1'	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	<26.0	28.5
SP5 0-1'	10/11/17	0-1'	Excavated	<0.0235	2.019	54.2	3,040	3094.2	600	3694.2	<b>4,500</b>
SP5 1-2'	10/11/17	1-2'	In-Situ	<0.0211	<0.0421	<26.3	181	181	142	323	<b>1,340</b>
SP5 2-3'	10/11/17	2-3'	In-Situ	-	-	<26.3	212	212	102	314	<b>1,240</b>
SP5 3-4'	10/11/17	3-4'	In-Situ	-	-	<26.9	717	717	150	867	<b>1,960</b>
SP5 4-5'	10/11/17	4-5'	In-Situ	-	-	<26.6	45.6	45.6	<26.6	45.6	194
SP 1 @ 1'	8/29/18	1'	In-Situ	<0.050	<0.300	<10.0	184	184	43.1	227.1	16.0
SP 2 @ 2'	8/29/18	2	In-Situ	<0.050	<0.300	<10.0	162	162	41.8	204	32.0
SP 3 @ 0.75'	8/29/18	0.75'	In-Situ	<0.050	<0.300	<50.0	3,280	3,280	937	4,217	16.0
SP 4 @ 0.5'	8/29/18	0.5'	Excavated	<0.050	<0.300	<50.0	4,180	4,180	1,660	<b>5,840</b>	64.0
SP 5 @ 0.75'	8/29/18	0.75'	In-Situ	<0.050	<0.300	<50.0	1,780.0	1,780.0	618	2,398.0	194
Sample #1	8/26/19		In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
Sample #2	8/26/19		In-Situ	<0.050	<0.300	<10.0	2,630	2,630	856	3,486	32.0
Sample #3	8/26/19		In-Situ	<0.050	<0.300	<10.0	1,090	1,090	579	1,669	32.0
Sample #4	8/26/19		In-Situ	<0.050	<0.300	<10.0	2,040	2,040	1,370	3,410	112
Sample #5	8/26/19		In-Situ	<0.050	<0.300	<10.0	1,730	1,730	969	2,699	48.0
SW #1	8/26/19		In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW #2	8/26/19		Excavated	<0.050	<0.300	<10.0	6,340	6,340	1,830	<b>8,170</b>	48.0
SW #3	8/26/19		Excavated	<0.050	<0.300	<10.0	3,760	3,760	1,410	<b>5,170</b>	<b>4,000</b>
SW #4	8/26/19		Excavated	<0.050	<0.300	<50.0	3,290	3,290	2,310	<b>5,600</b>	192
SW #5	8/26/19		In-Situ	<0.050	<0.300	<10.0	2,560	2,560	1,090	3,650	48.0
SW #6	8/26/19		Excavated	<0.050	<0.300	<50.0	8,830	8,830	3,360	<b>12,190</b>	32.0
SW #7	8/26/19		Excavated	<0.050	<0.300	<50.0	6,300	6,300	2,840	<b>9,140</b>	48.0
SW #8	8/26/19		Excavated	<0.050	<0.300	<50.0	5,390	5,390	2,030	<b>7,420</b>	496
SW #9	8/26/19		Excavated	<0.050	<0.300	<10.0	3,950	3,950	1,410	<b>5,360</b>	<b>2,160</b>
SW #10	8/26/19		Excavated	<0.050	<0.300	<50.0	9,900	9,900	3,410	<b>13,310</b>	224
SW 2-b	9/23/19	1'	In-Situ	--	--	<10.0	1890	1890	537	2,427	--
SW 3-b	9/23/19	6"	In-Situ	--	--	<10.0	1120	1120	518	1,638	64.0
SW 4-b	9/23/19	6"	In-Situ	--	--	<10.0	3880	3880	1340	<b>5,220</b>	--
SW 6-b	9/23/19	1'	In-Situ	--	--	<10.0	<10.0	<20.0	<10.0	<30.0	--
SW 7-b	9/23/19	1'	In-Situ	--	--	<10.0	<10.0	<20.0	<10.0	<30.0	--
SW 8-b	9/23/19	1'	In-Situ	--	--	<10.0	<10.0	<20.0	<10.0	<30.0	--
SW 9-b	9/23/19	1'	In-Situ	--	--	<10.0	172	172	70.3	242.3	64.0
SW 10-b	9/23/19	1'	In-Situ	--	--	<10.0	305	305	102	407	--
<b>Closure Criteria</b>				<b>10</b>	<b>50</b>	-	-	-	-	<b>5,000</b>	<b>600</b>

**NOTES:**

- = Not analyzed for constituent

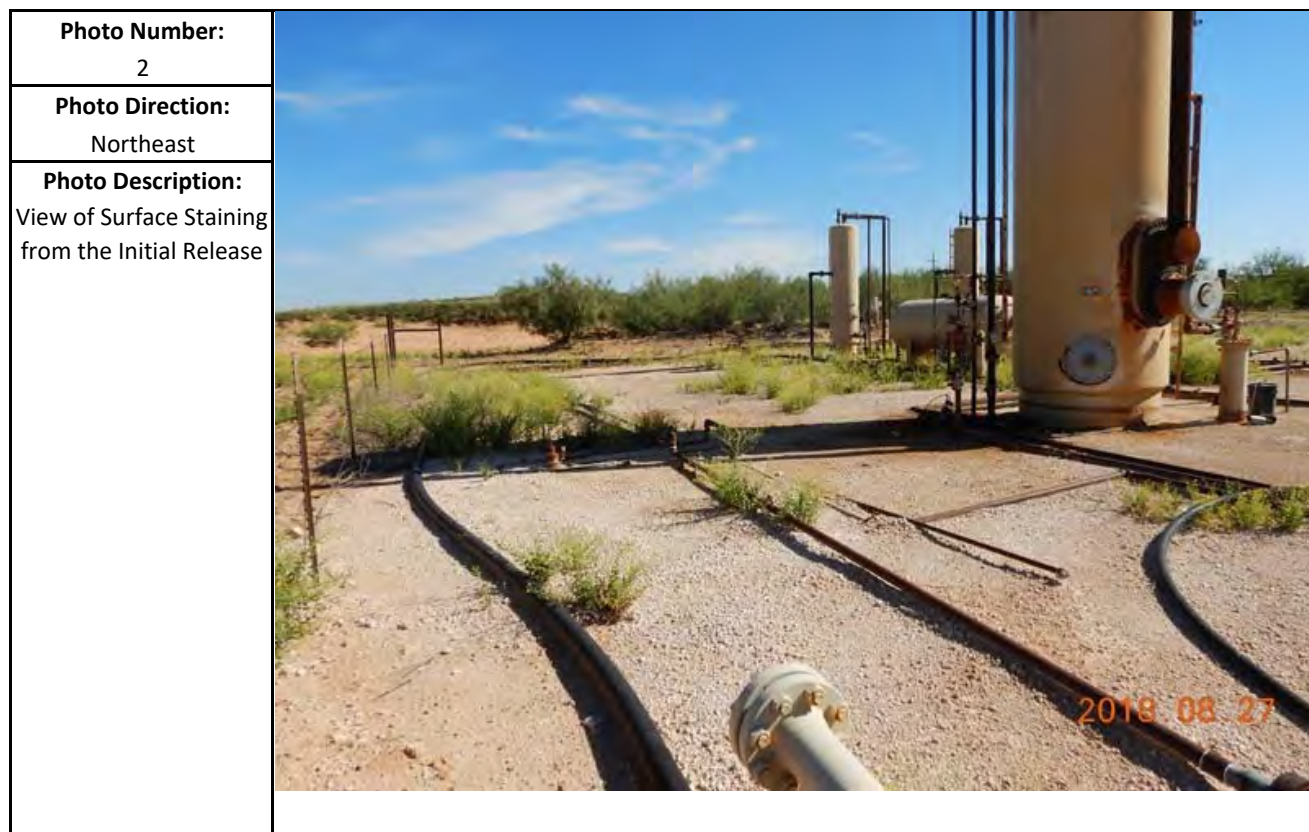
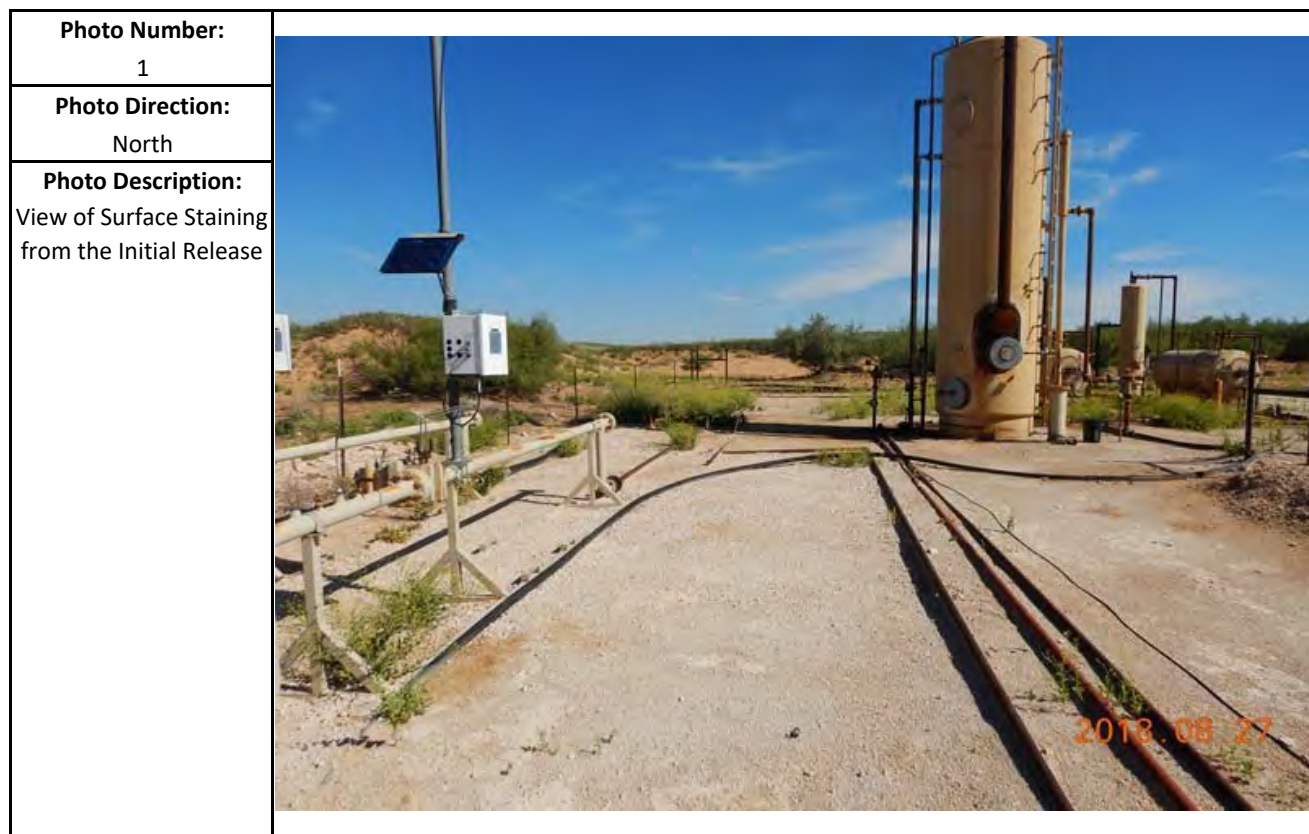
**Bold** text denotes a concentration that exceeds the NMOCD Closure Criteria

## ATTACHMENTS

ATTACHMENT I  
Photographs




## Photographic Log



Photographic Log

<b>Photo Number:</b> 3	
<b>Photo Direction:</b> East	
<b>Photo Description:</b> View of Surface Staining from the Initial Release	

<b>Photo Number:</b> 4	
<b>Photo Direction:</b> Southeast	
<b>Photo Description:</b> View of Surface Staining from the Initial Release	



Photographic Log

<b>Photo Number:</b> 5	
<b>Photo Direction:</b> North	
<b>Photo Description:</b> View after initial excavation activities	

<b>Photo Number:</b> 6	
<b>Photo Direction:</b> North	
<b>Photo Description:</b> View after initial excavation activities	



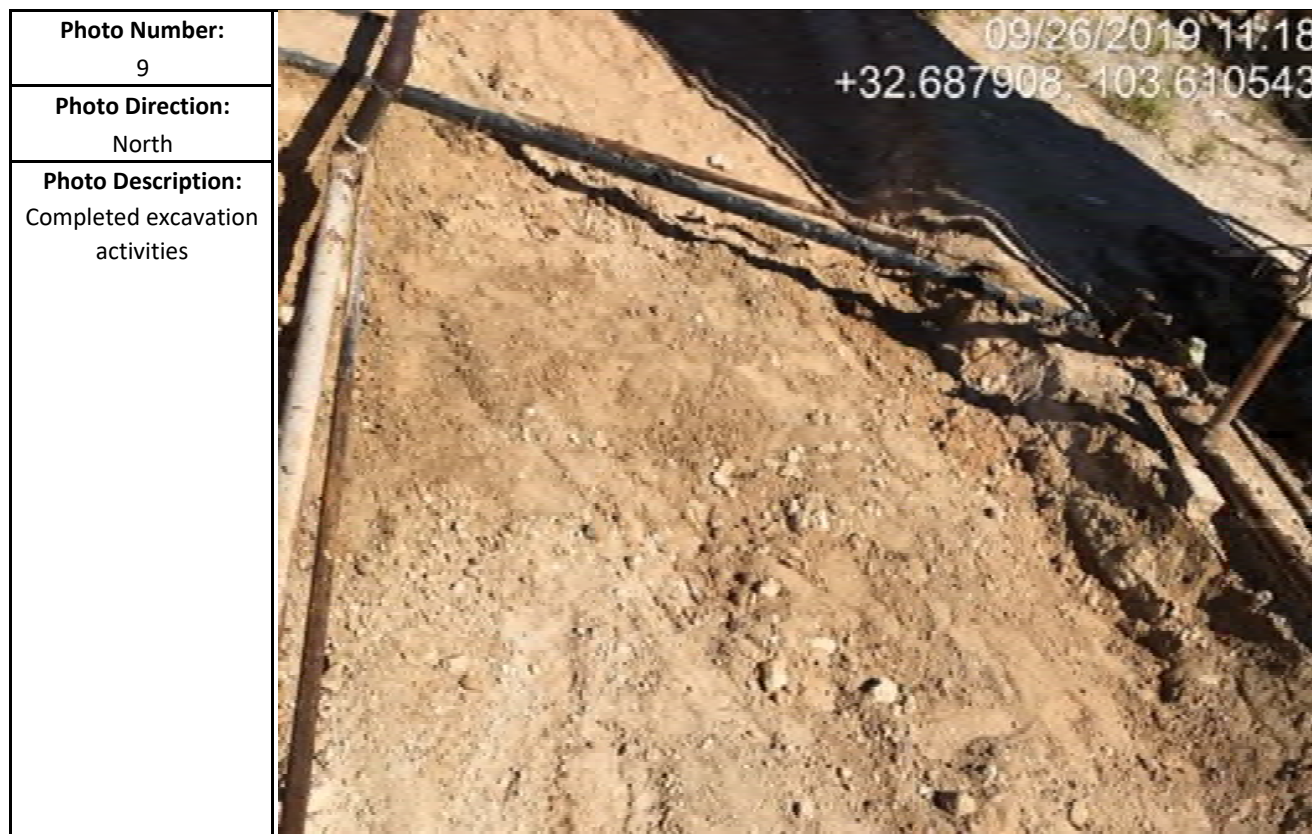
## Photographic Log

<b>Photo Number:</b> 7	
<b>Photo Direction:</b> North	
<b>Photo Description:</b> View after initial excavation activities	

<b>Photo Number:</b> 8	
<b>Photo Direction:</b> South	
<b>Photo Description:</b> View after initial excavation activities	



## Photographic Log






## Photographic Log





Photographic Log

<b>Photo Number:</b> 13	
<b>Photo Direction:</b> North	
<b>Photo Description:</b> Backfilled	

<b>Photo Number:</b> 14	
<b>Photo Direction:</b> South	
<b>Photo Description:</b> Backfilled	

ATTACHMENT II  
Depth to Groundwater




USGS Home  
Contact USGS  
Search USGS

## National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category:	Geographic Area:	
Groundwater	United States	GO

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Groundwater levels for the Nation

### Site Selection Results -- 1 sites found

lat_long_bounding_box =	Position	Latitude	Longitude
	Corner 1	32.696975	103.620121
	Corner 2	32.679071	103.565562
	Coordinates are entered as Decimal Degrees. DMS values are converted to Decimal degrees using NAD83 as the datum. Make your bounding box bigger if you are using NAD27 Datum for your DMS values		

Minimum number of 1 levels =

[Save file of selected sites](#) to local disk for future upload

Data for individual sites can be obtained by selecting the site number below

Agency	Site Number	Site Name	Period of Record		
			Begin Date	End Date	Levels
USGS	<a href="#">324046103360401</a>	19S.34E.06.341434	1968-03-18	2016-01-08	12

[Questions about sites/data?](#)

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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater levels -- 1 sites found

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>

Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2019-09-27 13:43:47 EDT





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National Water Information System: Web Interface

USGS Water Resources

Data Category:Groundwater

Geographic Area:United States

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Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs  
site\_no list =

- 324046103360401

Minimum number of levels = 1  
[Save file of selected sites](#) to local disk for future upload

USGS 324046103360401 19S.34E.06.341434

Lea County, New Mexico  
Latitude 32°41'02.3", Longitude 103°36'09.30" NAD83  
Land-surface elevation 3,776.00 feet above NGVD29  
The depth of the well is 500 feet below land surface.  
This well is completed in the Sunrise Formation (231SNRS) local aquifer.

Output formats

Table of data

Tab-separated data

Graph of data

Reselect period

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurment
1968-03-18		D	234.71			2		U		
1971-01-12		D	243.16			2		U		
1976-01-28		D	232.95			2		U		
1976-12-15		D	232.40			2		U		
1981-01-28		D	230.51			2		U		
1986-04-07		D	230.62			2		U		
1991-05-29		D	233.83			2		U		
1996-01-30		D	239.06			2		S		
2001-03-08		D	244.23			2		S		
2006-02-15	10:20 MST	m	244.52			2		S	USGS	
2010-12-15	10:20 MST	m	229.09			2		S	USGS	
2016-01-08	09:01 MST	m	243.82			2		V	USGS	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	S	Steel-tape measurement.



Section	Code	Description
Method of measurement	U	Unknown method.
<a href="#">Method of measurement</a>	V	<a href="#">Calibrated electric-tape measurement.</a>
Measuring agency		Not determined
<a href="#">Measuring agency</a>	USGS	<a href="#">U.S. Geological Survey</a>
Source of measurement	S	Measured by personnel of reporting agency.
<a href="#">Source of measurement</a>	U	<a href="#">Source is unknown.</a>
Water-level approval status	A	Approved for publication -- Processing and review completed.

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**Title: Groundwater for USA: Water Levels**

**URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>**

Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2019-09-27 13:48:05 EDT

0.85 0.68 nadww01



ATTACHMENT III  
Laboratory Analytical Results

**PERMIAN BASIN  
ENVIRONMENTAL LAB, LP  
1400 Rankin Hwy  
Midland, TX 79701**



# Analytical Report

**Prepared for:**

Fred Holmes  
E Tech Environmental & Safety Solutions, Inc.  
13000 West County Road 100  
Odessa, TX 79765

Project: Pennzoil Battery  
Project Number: 894-8706  
Location: NM

Lab Order Number: 7J12018



**NELAP/TCEQ # T104704516-16-7**

Report Date: 10/16/17



E Tech Environmental & Safety Solutions, Inc.  
13000 West County Road 100  
Odessa TX, 79765

Project: Pennzoil Battery  
Project Number: 894-8706  
Project Manager: Fred Holmes

Fax: (432) 563-2213

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP1 0-1'	7J12018-01	Soil	10/11/17 12:00	10-12-2017 13:14
SP1 1-2'	7J12018-02	Soil	10/11/17 12:10	10-12-2017 13:14
SP1 2-3'	7J12018-03	Soil	10/11/17 12:20	10-12-2017 13:14
SP2 0-1'	7J12018-04	Soil	10/11/17 12:30	10-12-2017 13:14
SP3 0-1'	7J12018-07	Soil	10/11/17 12:45	10-12-2017 13:14
SP4 0-1'	7J12018-10	Soil	10/11/17 13:05	10-12-2017 13:14
SP5 0-1'	7J12018-13	Soil	10/11/17 13:25	10-12-2017 13:14
SP5 1-2'	7J12018-14	Soil	10/11/17 13:30	10-12-2017 13:14
SP5 2-3'	7J12018-15	Soil	10/11/17 13:35	10-12-2017 13:14
SP5 3-4'	7J12018-16	Soil	10/11/17 13:40	10-12-2017 13:14
SP5 4-5'	7J12018-17	Soil	10/11/17 13:50	10-12-2017 13:14

E Tech Environmental & Safety Solutions, Inc.  
13000 West County Road 100  
Odessa TX, 79765

Project: Pennzoil Battery  
Project Number: 894-8706  
Project Manager: Fred Holmes

Fax: (432) 563-2213

**SP1 0-1'**  
**7J12018-01 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.0217	mg/kg dry	20	P7J1214	10/12/17	10/13/17	EPA 8021B	
Toluene	ND	0.0435	mg/kg dry	20	P7J1214	10/12/17	10/13/17	EPA 8021B	
Ethylbenzene	<b>0.214</b>	0.0217	mg/kg dry	20	P7J1214	10/12/17	10/13/17	EPA 8021B	
Xylene (p/m)	<b>5.52</b>	0.0435	mg/kg dry	20	P7J1214	10/12/17	10/13/17	EPA 8021B	
Xylene (o)	<b>4.43</b>	0.0217	mg/kg dry	20	P7J1214	10/12/17	10/13/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		P7J1214	10/12/17	10/13/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.8 %	75-125		P7J1214	10/12/17	10/13/17	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	ND	1.09	mg/kg dry	1	P7J1301	10/13/17	10/13/17	EPA 300.0	
% Moisture	<b>8.0</b>	0.1	%	1	P7J1305	10/13/17	10/13/17	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	<b>3050</b>	136	mg/kg dry	5	P7J1206	10/12/17	10/13/17	TPH 8015M	
>C12-C28	<b>9050</b>	136	mg/kg dry	5	P7J1206	10/12/17	10/13/17	TPH 8015M	
>C28-C35	<b>1520</b>	136	mg/kg dry	5	P7J1206	10/12/17	10/13/17	TPH 8015M	
Surrogate: 1-Chlorooctane		116 %	70-130		P7J1206	10/12/17	10/13/17	TPH 8015M	
Surrogate: o-Terphenyl		131 %	70-130		P7J1206	10/12/17	10/13/17	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	<b>13600</b>	136	mg/kg dry	5	[CALC]	10/12/17	10/13/17	calc	

Permian Basin Environmental Lab, L.P.

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13000 West County Road 100  
Odessa TX, 79765

Project: Pennzoil Battery  
Project Number: 894-8706  
Project Manager: Fred Holmes

Fax: (432) 563-2213

**SP1 1-2'**  
**7J12018-02 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.00104	mg/kg dry	1	P7J1214	10/12/17	10/12/17	EPA 8021B	
Toluene	ND	0.00208	mg/kg dry	1	P7J1214	10/12/17	10/12/17	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P7J1214	10/12/17	10/12/17	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P7J1214	10/12/17	10/12/17	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P7J1214	10/12/17	10/12/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		92.0 %	75-125		P7J1214	10/12/17	10/12/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		98.0 %	75-125		P7J1214	10/12/17	10/12/17	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	4.0	0.1	%	1	P7J1305	10/13/17	10/13/17	ASTM D2216	
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.0	mg/kg dry	1	P7J1206	10/12/17	10/13/17	TPH 8015M	
>C12-C28	100	26.0	mg/kg dry	1	P7J1206	10/12/17	10/13/17	TPH 8015M	
>C28-C35	29.1	26.0	mg/kg dry	1	P7J1206	10/12/17	10/13/17	TPH 8015M	
Surrogate: 1-Chlorooctane		104 %	70-130		P7J1206	10/12/17	10/13/17	TPH 8015M	
Surrogate: o-Terphenyl		122 %	70-130		P7J1206	10/12/17	10/13/17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	130	26.0	mg/kg dry	1	[CALC]	10/12/17	10/13/17	calc	

Permian Basin Environmental Lab, L.P.

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Odessa TX, 79765

Project: Pennzoil Battery  
Project Number: 894-8706  
Project Manager: Fred Holmes

Fax: (432) 563-2213

**SP1 2-3'**  
**7J12018-03 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	5.0	0.1	%	1	P7J1305	10/13/17	10/13/17	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.3	mg/kg dry	1	P7J1206	10/12/17	10/13/17	TPH 8015M
>C12-C28	ND	26.3	mg/kg dry	1	P7J1206	10/12/17	10/13/17	TPH 8015M
>C28-C35	ND	26.3	mg/kg dry	1	P7J1206	10/12/17	10/13/17	TPH 8015M
Surrogate: 1-Chlorooctane		71.2 %	70-130		P7J1206	10/12/17	10/13/17	TPH 8015M
Surrogate: o-Terphenyl		83.5 %	70-130		P7J1206	10/12/17	10/13/17	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	10/12/17	10/13/17	calc

Permian Basin Environmental Lab, L.P.

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Odessa TX, 79765

Project: Pennzoil Battery  
Project Number: 894-8706  
Project Manager: Fred Holmes

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**SP2 0-1'**  
**7J12018-04 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.00110	mg/kg dry	1	P7J1214	10/12/17	10/13/17	EPA 8021B	
Toluene	ND	0.00220	mg/kg dry	1	P7J1214	10/12/17	10/13/17	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P7J1214	10/12/17	10/13/17	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P7J1214	10/12/17	10/13/17	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P7J1214	10/12/17	10/13/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		107 %	75-125		P7J1214	10/12/17	10/13/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.4 %	75-125		P7J1214	10/12/17	10/13/17	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	ND	1.10	mg/kg dry	1	P7J1301	10/13/17	10/13/17	EPA 300.0	
% Moisture	9.0	0.1	%	1	P7J1305	10/13/17	10/13/17	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	27.5	mg/kg dry	1	P7J1206	10/12/17	10/13/17	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P7J1206	10/12/17	10/13/17	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P7J1206	10/12/17	10/13/17	TPH 8015M	
Surrogate: 1-Chlorooctane		109 %	70-130		P7J1206	10/12/17	10/13/17	TPH 8015M	
Surrogate: o-Terphenyl		128 %	70-130		P7J1206	10/12/17	10/13/17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	10/12/17	10/13/17	calc	

Permian Basin Environmental Lab, L.P.

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Odessa TX, 79765

Project: Pennzoil Battery  
Project Number: 894-8706  
Project Manager: Fred Holmes

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**SP3 0-1'**  
**7J12018-07 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.00103	mg/kg dry	1	P7J1214	10/12/17	10/13/17	EPA 8021B	
Toluene	ND	0.00206	mg/kg dry	1	P7J1214	10/12/17	10/13/17	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P7J1214	10/12/17	10/13/17	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P7J1214	10/12/17	10/13/17	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P7J1214	10/12/17	10/13/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		88.2 %	75-125		P7J1214	10/12/17	10/13/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		94.4 %	75-125		P7J1214	10/12/17	10/13/17	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	492	1.03	mg/kg dry	1	P7J1301	10/13/17	10/13/17	EPA 300.0	
% Moisture	3.0	0.1	%	1	P7J1305	10/13/17	10/13/17	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.8	mg/kg dry	1	P7J1213	10/12/17	10/13/17	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P7J1213	10/12/17	10/13/17	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P7J1213	10/12/17	10/13/17	TPH 8015M	
Surrogate: 1-Chlorooctane		96.4 %	70-130		P7J1213	10/12/17	10/13/17	TPH 8015M	
Surrogate: o-Terphenyl		115 %	70-130		P7J1213	10/12/17	10/13/17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	10/12/17	10/13/17	calc	

Permian Basin Environmental Lab, L.P.

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Odessa TX, 79765

Project: Pennzoil Battery  
Project Number: 894-8706  
Project Manager: Fred Holmes

Fax: (432) 563-2213

**SP4 0-1'**  
**7J12018-10 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.00104	mg/kg dry	1	P7J1214	10/12/17	10/13/17	EPA 8021B	
Toluene	ND	0.00208	mg/kg dry	1	P7J1214	10/12/17	10/13/17	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P7J1214	10/12/17	10/13/17	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P7J1214	10/12/17	10/13/17	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P7J1214	10/12/17	10/13/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		104 %	75-125		P7J1214	10/12/17	10/13/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		105 %	75-125		P7J1214	10/12/17	10/13/17	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	28.5	1.04	mg/kg dry	1	P7J1301	10/13/17	10/13/17	EPA 300.0	
% Moisture	4.0	0.1	%	1	P7J1305	10/13/17	10/13/17	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.0	mg/kg dry	1	P7J1213	10/12/17	10/13/17	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P7J1213	10/12/17	10/13/17	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P7J1213	10/12/17	10/13/17	TPH 8015M	
Surrogate: 1-Chlorooctane		93.7 %	70-130		P7J1213	10/12/17	10/13/17	TPH 8015M	
Surrogate: o-Terphenyl		111 %	70-130		P7J1213	10/12/17	10/13/17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	10/12/17	10/13/17	calc	

Permian Basin Environmental Lab, L.P.

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13000 West County Road 100  
Odessa TX, 79765

Project: Pennzoil Battery  
Project Number: 894-8706  
Project Manager: Fred Holmes

Fax: (432) 563-2213

**SP5 0-1'**  
**7J12018-13 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.0235	mg/kg dry	20	P7J1214	10/12/17	10/13/17	EPA 8021B	
<b>Toluene</b>	<b>0.598</b>	0.0471	mg/kg dry	20	P7J1214	10/12/17	10/13/17	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.254</b>	0.0235	mg/kg dry	20	P7J1214	10/12/17	10/13/17	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.762</b>	0.0471	mg/kg dry	20	P7J1214	10/12/17	10/13/17	EPA 8021B	
<b>Xylene (o)</b>	<b>0.405</b>	0.0235	mg/kg dry	20	P7J1214	10/12/17	10/13/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		98.5 %		75-125	P7J1214	10/12/17	10/13/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.0 %		75-125	P7J1214	10/12/17	10/13/17	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>4500</b>	5.88	mg/kg dry	5	P7J1301	10/13/17	10/13/17	EPA 300.0	
<b>% Moisture</b>	<b>15.0</b>	0.1	%	1	P7J1305	10/13/17	10/13/17	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>54.2</b>	29.4	mg/kg dry	1	P7J1213	10/12/17	10/16/17	TPH 8015M	
<b>&gt;C12-C28</b>	<b>3040</b>	29.4	mg/kg dry	1	P7J1213	10/12/17	10/16/17	TPH 8015M	
<b>&gt;C28-C35</b>	<b>600</b>	29.4	mg/kg dry	1	P7J1213	10/12/17	10/16/17	TPH 8015M	
Surrogate: 1-Chlorooctane		101 %		70-130	P7J1213	10/12/17	10/16/17	TPH 8015M	
Surrogate: o-Terphenyl		122 %		70-130	P7J1213	10/12/17	10/16/17	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>3690</b>	29.4	mg/kg dry	1	[CALC]	10/12/17	10/16/17	calc	

Permian Basin Environmental Lab, L.P.

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Odessa TX, 79765

Project: Pennzoil Battery  
Project Number: 894-8706  
Project Manager: Fred Holmes

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**SP5 1-2'**  
**7J12018-14 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.0211	mg/kg dry	20	P7J1214	10/12/17	10/13/17	EPA 8021B	
Toluene	ND	0.0421	mg/kg dry	20	P7J1214	10/12/17	10/13/17	EPA 8021B	
Ethylbenzene	ND	0.0211	mg/kg dry	20	P7J1214	10/12/17	10/13/17	EPA 8021B	
Xylene (p/m)	ND	0.0421	mg/kg dry	20	P7J1214	10/12/17	10/13/17	EPA 8021B	
Xylene (o)	ND	0.0211	mg/kg dry	20	P7J1214	10/12/17	10/13/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		100 %	75-125		P7J1214	10/12/17	10/13/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		P7J1214	10/12/17	10/13/17	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	1340	5.26	mg/kg dry	5	P7J1301	10/13/17	10/13/17	EPA 300.0	
% Moisture	5.0	0.1	%	1	P7J1305	10/13/17	10/13/17	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.3	mg/kg dry	1	P7J1213	10/12/17	10/16/17	TPH 8015M	
>C12-C28	181	26.3	mg/kg dry	1	P7J1213	10/12/17	10/16/17	TPH 8015M	
>C28-C35	142	26.3	mg/kg dry	1	P7J1213	10/12/17	10/16/17	TPH 8015M	
Surrogate: 1-Chlorooctane		100 %	70-130		P7J1213	10/12/17	10/16/17	TPH 8015M	
Surrogate: o-Terphenyl		119 %	70-130		P7J1213	10/12/17	10/16/17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	323	26.3	mg/kg dry	1	[CALC]	10/12/17	10/16/17	calc	

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Odessa TX, 79765

Project: Pennzoil Battery  
Project Number: 894-8706  
Project Manager: Fred Holmes

Fax: (432) 563-2213

**SP5 2-3'**  
**7J12018-15 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>1240</b>	1.05	mg/kg dry	1	P7J1301	10/13/17	10/13/17	EPA 300.0	
<b>% Moisture</b>	<b>5.0</b>	0.1	%	1	P7J1305	10/13/17	10/13/17	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.3	mg/kg dry	1	P7J1213	10/12/17	10/16/17	TPH 8015M	
>C12-C28	<b>212</b>	26.3	mg/kg dry	1	P7J1213	10/12/17	10/16/17	TPH 8015M	
>C28-C35	<b>102</b>	26.3	mg/kg dry	1	P7J1213	10/12/17	10/16/17	TPH 8015M	
Surrogate: 1-Chlorooctane		99.4 %	70-130		P7J1213	10/12/17	10/16/17	TPH 8015M	
Surrogate: o-Terphenyl		118 %	70-130		P7J1213	10/12/17	10/16/17	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>314</b>	26.3	mg/kg dry	1	[CALC]	10/12/17	10/16/17	calc	

Permian Basin Environmental Lab, L.P.

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E Tech Environmental & Safety Solutions, Inc.  
13000 West County Road 100  
Odessa TX, 79765

Project: Pennzoil Battery  
Project Number: 894-8706  
Project Manager: Fred Holmes

Fax: (432) 563-2213

**SP5 3-4'**  
**7J12018-16 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>1960</b>	1.08	mg/kg dry	1	P7J1301	10/13/17	10/13/17	EPA 300.0	
<b>% Moisture</b>	<b>7.0</b>	0.1	%	1	P7J1305	10/13/17	10/13/17	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>ND</b>	26.9	mg/kg dry	1	P7J1213	10/12/17	10/14/17	TPH 8015M	
<b>&gt;C12-C28</b>	<b>717</b>	26.9	mg/kg dry	1	P7J1213	10/12/17	10/14/17	TPH 8015M	
<b>&gt;C28-C35</b>	<b>150</b>	26.9	mg/kg dry	1	P7J1213	10/12/17	10/14/17	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		101 %	70-130		P7J1213	10/12/17	10/14/17	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		122 %	70-130		P7J1213	10/12/17	10/14/17	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>867</b>	26.9	mg/kg dry	1	[CALC]	10/12/17	10/14/17	calc	

Permian Basin Environmental Lab, L.P.

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E Tech Environmental & Safety Solutions, Inc.  
13000 West County Road 100  
Odessa TX, 79765

Project: Pennzoil Battery  
Project Number: 894-8706  
Project Manager: Fred Holmes

Fax: (432) 563-2213

**SP5 4-5'**  
**7J12018-17 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>194</b>	1.06	mg/kg dry	1	P7J1301	10/13/17	10/13/17	EPA 300.0	
<b>% Moisture</b>	<b>6.0</b>	0.1	%	1	P7J1305	10/13/17	10/13/17	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.6	mg/kg dry	1	P7J1213	10/12/17	10/14/17	TPH 8015M	
>C12-C28	<b>45.6</b>	26.6	mg/kg dry	1	P7J1213	10/12/17	10/14/17	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P7J1213	10/12/17	10/14/17	TPH 8015M	
Surrogate: 1-Chlorooctane		98.4 %	70-130		P7J1213	10/12/17	10/14/17	TPH 8015M	
Surrogate: o-Terphenyl		116 %	70-130		P7J1213	10/12/17	10/14/17	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>45.6</b>	26.6	mg/kg dry	1	[CALC]	10/12/17	10/14/17	calc	

Permian Basin Environmental Lab, L.P.

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E Tech Environmental & Safety Solutions, Inc.  
13000 West County Road 100  
Odessa TX, 79765

Project: Pennzoil Battery  
Project Number: 894-8706  
Project Manager: Fred Holmes

Fax: (432) 563-2213

**Organics by GC - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch P7J1214 - General Preparation (GC)</b>										
<b>Blank (P7J1214-BLK1)</b>				Prepared & Analyzed: 10/12/17						
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.0564		"	0.0600		93.9	75-125			
Surrogate: 4-Bromofluorobenzene	0.0599		"	0.0600		99.8	75-125			
<b>LCS (P7J1214-BS1)</b>				Prepared & Analyzed: 10/12/17						
Benzene	0.112	0.00100	mg/kg wet				70-130			
Toluene	0.106	0.00200	"				70-130			
Ethylbenzene	0.116	0.00100	"				70-130			
Xylene (p/m)	0.218	0.00200	"				70-130			
Xylene (o)	0.117	0.00100	"				70-130			
Surrogate: 4-Bromofluorobenzene	0.0605		"	0.0600		101	75-125			
Surrogate: 1,4-Difluorobenzene	0.0640		"	0.0600		107	75-125			
<b>LCS Dup (P7J1214-BSD1)</b>				Prepared & Analyzed: 10/12/17						
Benzene	0.112	0.00100	mg/kg wet				70-130		20	
Toluene	0.109	0.00200	"				70-130		20	
Ethylbenzene	0.117	0.00100	"				70-130		20	
Xylene (p/m)	0.212	0.00200	"				70-130		20	
Xylene (o)	0.117	0.00100	"				70-130		20	
Surrogate: 1,4-Difluorobenzene	0.0628		"	0.0600		105	75-125			
Surrogate: 4-Bromofluorobenzene	0.0631		"	0.0600		105	75-125			
<b>Calibration Check (P7J1214-CCV1)</b>				Prepared & Analyzed: 10/12/17						
Benzene	0.110	0.00100	mg/kg wet	0.100		110	80-120			
Toluene	0.106	0.00200	"	0.100		106	80-120			
Ethylbenzene	0.107	0.00100	"	0.100		107	80-120			
Xylene (p/m)	0.219	0.00200	"	0.200		110	80-120			
Xylene (o)	0.114	0.00100	"	0.100		114	80-120			
Surrogate: 4-Bromofluorobenzene	0.0602		"	0.0600		100	75-125			
Surrogate: 1,4-Difluorobenzene	0.0642		"	0.0600		107	75-125			

Permian Basin Environmental Lab, L.P.

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E Tech Environmental & Safety Solutions, Inc.  
13000 West County Road 100  
Odessa TX, 79765

Project: Pennzoil Battery  
Project Number: 894-8706  
Project Manager: Fred Holmes

Fax: (432) 563-2213

**Organics by GC - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch P7J1214 - General Preparation (GC)**

**Calibration Check (P7J1214-CCV2)**

Prepared: 10/12/17 Analyzed: 10/13/17

Benzene	0.106	0.00100	mg/kg wet	0.100		106	80-120		
Toluene	0.0968	0.00200	"	0.100		96.8	80-120		
Ethylbenzene	0.100	0.00100	"	0.100		100	80-120		
Xylene (p/m)	0.216	0.00200	"	0.200		108	80-120		
Xylene (o)	0.114	0.00100	"	0.100		114	80-120		
Surrogate: 1,4-Difluorobenzene	0.0614		"	0.0600		102	75-125		
Surrogate: 4-Bromofluorobenzene	0.0583		"	0.0600		97.2	75-125		

**Calibration Check (P7J1214-CCV3)**

Prepared: 10/12/17 Analyzed: 10/13/17

Benzene	0.0980	0.00100	mg/kg wet	0.100		98.0	80-120		
Toluene	0.0901	0.00200	"	0.100		90.1	80-120		
Ethylbenzene	0.0940	0.00100	"	0.100		94.0	80-120		
Xylene (p/m)	0.194	0.00200	"	0.200		97.2	80-120		
Xylene (o)	0.100	0.00100	"	0.100		100	80-120		
Surrogate: 1,4-Difluorobenzene	0.0647		"	0.0600		108	75-125		
Surrogate: 4-Bromofluorobenzene	0.0589		"	0.0600		98.1	75-125		

**Matrix Spike (P7J1214-MS1)**

Source: 7J12018-17

Prepared: 10/12/17 Analyzed: 10/13/17

Benzene	0.0859	0.00106	mg/kg dry		ND		80-120		
Toluene	0.0856	0.00213	"		ND		80-120		
Ethylbenzene	0.0945	0.00106	"		0.000862		80-120		
Xylene (p/m)	0.195	0.00213	"		ND		80-120		
Xylene (o)	0.0823	0.00106	"		ND		80-120		
Surrogate: 4-Bromofluorobenzene	0.0728		"	0.0638		114	75-125		
Surrogate: 1,4-Difluorobenzene	0.0685		"	0.0638		107	75-125		

Permian Basin Environmental Lab, L.P.

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E Tech Environmental & Safety Solutions, Inc.	Project: Pennzoil Battery	Fax: (432) 563-2213
13000 West County Road 100	Project Number: 894-8706	
Odessa TX, 79765	Project Manager: Fred Holmes	

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch P7J1301 - *** DEFAULT PREP ***</b>										
<b>Blank (P7J1301-BLK1)</b>				Prepared & Analyzed: 10/13/17						
Chloride	ND	1.00	mg/kg wet							
<b>LCS (P7J1301-BS1)</b>				Prepared & Analyzed: 10/13/17						
Chloride	421	1.00	mg/kg wet	400		105	80-120			
<b>LCS Dup (P7J1301-BSD1)</b>				Prepared & Analyzed: 10/13/17						
Chloride	428	1.00	mg/kg wet	400		107	80-120	1.51	20	
<b>Duplicate (P7J1301-DUP1)</b>				<b>Source: 7J12018-01</b>		Prepared & Analyzed: 10/13/17				
Chloride	ND	1.09	mg/kg dry		ND				20	
<b>Duplicate (P7J1301-DUP2)</b>				<b>Source: 7J12018-11</b>		Prepared & Analyzed: 10/13/17				
Chloride	41.2	1.06	mg/kg dry		40.9			0.726	20	
<b>Matrix Spike (P7J1301-MS1)</b>				<b>Source: 7J12018-01</b>		Prepared & Analyzed: 10/13/17				
Chloride	1140	1.09	mg/kg dry	1090	ND	105	80-120			
<b>Batch P7J1305 - *** DEFAULT PREP ***</b>										
<b>Blank (P7J1305-BLK1)</b>				Prepared & Analyzed: 10/13/17						
% Moisture	ND	0.1	%							
<b>Duplicate (P7J1305-DUP1)</b>				<b>Source: 7J12018-16</b>		Prepared & Analyzed: 10/13/17				
% Moisture	6.0	0.1	%		7.0			15.4	20	

Permian Basin Environmental Lab, L.P.

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E Tech Environmental & Safety Solutions, Inc.  
13000 West County Road 100  
Odessa TX, 79765

Project: Pennzoil Battery  
Project Number: 894-8706  
Project Manager: Fred Holmes

Fax: (432) 563-2213

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch P7J1206 - General Preparation (GC)</b>									
<b>Blank (P7J1206-BLK1)</b>				Prepared & Analyzed: 10/12/17					
C6-C12	ND	25.0	mg/kg wet						
>C12-C28	ND	25.0	"						
>C28-C35	ND	25.0	"						
Surrogate: 1-Chlorooctane	95.1		"	100		95.1	70-130		
Surrogate: o-Terphenyl	55.9		"	50.0		112	70-130		
<b>LCS (P7J1206-BS1)</b>				Prepared & Analyzed: 10/12/17					
C6-C12	921	25.0	mg/kg wet	1000		92.1	75-125		
>C12-C28	948	25.0	"	1000		94.8	75-125		
Surrogate: 1-Chlorooctane	117		"	100		117	70-130		
Surrogate: o-Terphenyl	54.7		"	50.0		109	70-130		
<b>LCS Dup (P7J1206-BSD1)</b>				Prepared & Analyzed: 10/12/17					
C6-C12	878	25.0	mg/kg wet	1000		87.8	75-125	4.80	20
>C12-C28	906	25.0	"	1000		90.6	75-125	4.51	20
Surrogate: 1-Chlorooctane	115		"	100		115	70-130		
Surrogate: o-Terphenyl	56.3		"	50.0		113	70-130		
<b>Calibration Check (P7J1206-CCV1)</b>				Prepared & Analyzed: 10/12/17					
C6-C12	532	25.0	mg/kg wet	500		106	85-115		
>C12-C28	551	25.0	"	500		110	85-115		
Surrogate: 1-Chlorooctane	113		"	100		113	70-130		
Surrogate: o-Terphenyl	59.4		"	50.0		119	70-130		
<b>Calibration Check (P7J1206-CCV2)</b>				Prepared: 10/12/17 Analyzed: 10/13/17					
C6-C12	560	25.0	mg/kg wet	500		112	85-115		
>C12-C28	569	25.0	"	500		114	85-115		
Surrogate: 1-Chlorooctane	119		"	100		119	70-130		
Surrogate: o-Terphenyl	62.8		"	50.0		126	70-130		

Permian Basin Environmental Lab, L.P.

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E Tech Environmental & Safety Solutions, Inc.  
13000 West County Road 100  
Odessa TX, 79765

Project: Pennzoil Battery  
Project Number: 894-8706  
Project Manager: Fred Holmes

Fax: (432) 563-2213

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P7J1206 - General Preparation (GC)**

**Calibration Check (P7J1206-CCV3)**

Prepared: 10/12/17 Analyzed: 10/13/17

C6-C12	568	25.0	mg/kg wet	500		114	85-115			
>C12-C28	574	25.0	"	500		115	85-115			
Surrogate: 1-Chlorooctane	121		"	100		121	70-130			
Surrogate: o-Terphenyl	63.8		"	50.0		128	70-130			

**Matrix Spike (P7J1206-MS1)**

Source: 7J12006-27

Prepared: 10/12/17 Analyzed: 10/13/17

C6-C12	1100	26.6	mg/kg dry	1060	12.2	102	75-125			
>C12-C28	1090	26.6	"	1060	14.0	101	75-125			
Surrogate: 1-Chlorooctane	113		"	106		106	70-130			
Surrogate: o-Terphenyl	60.3		"	53.2		113	70-130			

**Matrix Spike Dup (P7J1206-MSD1)**

Source: 7J12006-27

Prepared: 10/12/17 Analyzed: 10/13/17

C6-C12	1040	26.6	mg/kg dry	1060	12.2	96.6	75-125	5.59	20	
>C12-C28	1060	26.6	"	1060	14.0	98.3	75-125	3.08	20	
Surrogate: 1-Chlorooctane	133		"	106		125	70-130			
Surrogate: o-Terphenyl	58.0		"	53.2		109	70-130			

**Batch P7J1213 - General Preparation (GC)**

**Blank (P7J1213-BLK1)**

Prepared: 10/12/17 Analyzed: 10/13/17

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	93.1		"	100		93.1	70-130			
Surrogate: o-Terphenyl	55.1		"	50.0		110	70-130			

**LCS (P7J1213-BS1)**

Prepared: 10/12/17 Analyzed: 10/13/17

C6-C12	887	25.0	mg/kg wet	1000		88.7	75-125			
>C12-C28	919	25.0	"	1000		91.9	75-125			
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	51.9		"	50.0		104	70-130			

Permian Basin Environmental Lab, L.P.

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E Tech Environmental & Safety Solutions, Inc.  
13000 West County Road 100  
Odessa TX, 79765

Project: Pennzoil Battery  
Project Number: 894-8706  
Project Manager: Fred Holmes

Fax: (432) 563-2213

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch P7J1213 - General Preparation (GC)</b>										
<b>LCS Dup (P7J1213-BSD1)</b>				Prepared: 10/12/17 Analyzed: 10/13/17						
C6-C12	926	25.0	mg/kg wet	1000		92.6	75-125	4.33	20	
>C12-C28	957	25.0	"	1000		95.7	75-125	4.03	20	
Surrogate: 1-Chlorooctane	119		"	100		119	70-130			
Surrogate: o-Terphenyl	54.2		"	50.0		108	70-130			
<b>Calibration Check (P7J1213-CCV1)</b>				Prepared: 10/12/17 Analyzed: 10/13/17						
C6-C12	483	25.0	mg/kg wet	500		96.6	85-115			
>C12-C28	475	25.0	"	500		95.1	85-115			
Surrogate: 1-Chlorooctane	103		"	100		103	70-130			
Surrogate: o-Terphenyl	58.6		"	50.0		117	70-130			
<b>Calibration Check (P7J1213-CCV2)</b>				Prepared: 10/12/17 Analyzed: 10/13/17						
C6-C12	462	25.0	mg/kg wet	500		92.3	85-115			
>C12-C28	494	25.0	"	500		98.9	85-115			
Surrogate: 1-Chlorooctane	101		"	100		101	70-130			
Surrogate: o-Terphenyl	57.0		"	50.0		114	70-130			
<b>Calibration Check (P7J1213-CCV3)</b>				Prepared: 10/12/17 Analyzed: 10/14/17						
C6-C12	523	25.0	mg/kg wet	500		105	85-115			
>C12-C28	512	25.0	"	500		102	85-115			
Surrogate: 1-Chlorooctane	111		"	100		111	70-130			
Surrogate: o-Terphenyl	58.3		"	50.0		117	70-130			
<b>Matrix Spike (P7J1213-MS1)</b>				Source: 7J12018-17 Prepared: 10/12/17 Analyzed: 10/14/17						
C6-C12	1110	26.6	mg/kg dry	1060	12.8	104	75-125			
>C12-C28	1170	26.6	"	1060	45.6	105	75-125			
Surrogate: 1-Chlorooctane	124		"	106		116	70-130			
Surrogate: o-Terphenyl	66.3		"	53.2		125	70-130			

Permian Basin Environmental Lab, L.P.

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E Tech Environmental & Safety Solutions, Inc.  
13000 West County Road 100  
Odessa TX, 79765

Project: Pennzoil Battery  
Project Number: 894-8706  
Project Manager: Fred Holmes

Fax: (432) 563-2213

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P7J1213 - General Preparation (GC)**

Matrix Spike Dup (P7J1213-MSD1)	Source: 7J12018-17			Prepared: 10/12/17 Analyzed: 10/14/17						
C6-C12	1090	26.6	mg/kg dry	1060	12.8	102	75-125	1.90	20	
>C12-C28	1120	26.6	"	1060	45.6	101	75-125	3.90	20	
Surrogate: 1-Chlorooctane	124		"	106		117	70-130			
Surrogate: o-Terphenyl	65.0		"	53.2		122	70-130			

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235

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E Tech Environmental & Safety Solutions, Inc.  
13000 West County Road 100  
Odessa TX, 79765

Project: Pennzoil Battery  
Project Number: 894-8706  
Project Manager: Fred Holmes

Fax: (432) 563-2213

### Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date: 10/16/2017

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

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Permian Basin Environmental Lab, L.P.

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**PRIELAB**

Permian Basin Environmental Lab, LP

1400 Rankin Hwy

Midland, Texas 79701

Phone: 432-686-7235

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

1/2

Project Manager: **BRANDON WILSON**Company Name: **Etech Environmental & Safety Solutions, Inc.**Company Mailing Address: **P.O. Box 62228**City/State/Zip: **Odessa, Texas 79765**Phone: **432-563-2200** Fax: **432-563-2213**Sampler Signature: *Brandon Wilson*email: **brandon@etechenv.com**Report Format: STANDARD ☒ TRRP ☐ NPDES ☐Project Name: **PENNZOIL BATTERY**  
Project # **894-887** Project Loc: **NHT**  
Area: **8404** **844-8706**

Page 22 of 23

(lab use only)  
ORDER # **512016**

LAB # (lab use only)	FIELD CODE	Start Depth	End Depth	Date Sampled	Time Sampled	No. of Containers	Preservation & # of Containers										Matrix	Analyze For:																																																																																																																																																																																																																																																																																																																																											
							Ice	HNO <sub>3</sub>	HCl	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None	Other ( Specify)	DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid		NP=Non-PotableSpecify Other	TCLP	TOTAL	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semi volatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides	RUSH TAT(Pre-Schedule) 24, 48, 72 hrs	STANDARD TAT																																																																																																																																																																																																																																																																																																																															
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Special Instructions:

PROCEDURE ANALYSIS 55000 NHT BTEX 600 mg/L

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SP4 0-1'

10-11-17 1305

**PRELAB**

Permian Basin Environmental Lab, LP

1400 Rankin Hwy

Midland, Texas 79701

Phone: 432-686-7235

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

2/2

Project Manager: **BRANDON WILSON**Company Name: **Etech Environmental & Safety Solutions, Inc.**Company Mailing Address: **P.O. Box 62228**City/State/Zip: **Odessa, Texas 79765**Phone: **432-563-2200** Fax: **432-563-2213**Sampler Signature: *Brandon Wilson*email: **brandon@etechenv.com**Report Format: STANDARD ☒ TRRP ☐ NPDES ☐

Project Name: **PERMIAN BASIN BATTER**  
 Project #: **844-884** Project Loc: **NO**  
 Area: **844-884**  
**8706**

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(lab use only)		Preservation & # of Containers										Matrix										Analyze For:														
ORDER #	LAB # (lab use only)	FIELD CODE	Start Depth	End Depth	Date Sampled	Time Sampled	No. of Containers	Ice	HNO <sub>3</sub>	HCl	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None	Other (Specify)	DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-PotableSpecify Other	TPH	418.1	8015M	1005	1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO <sub>4</sub> , CO <sub>3</sub> , HCO <sub>3</sub> )	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semi volatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides	RUSH TAT(Pre-Schedule) 24, 48, 72 hrs	STANDARD TAT	
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PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

September 05, 2018

ROBBIE RUNNELS

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PENNZOIL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/30/18 16:47.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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,

Celey D. Keene

Lab Director/Quality Manager



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**Analytical Results For:**

Basin Environmental Service  
 ROBBIE RUNNELS  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	08/30/2018	Sampling Date:	08/29/2018
Reported:	09/05/2018	Sampling Type:	Soil
Project Name:	PENNZOIL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY- LEA CO NM		

**Sample ID: SP 1 @ 1' (H802469-01)**

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/01/2018	ND	2.42	121	2.00	1.72		
Toluene*	<0.050	0.050	09/01/2018	ND	2.28	114	2.00	2.71		
Ethylbenzene*	<0.050	0.050	09/01/2018	ND	2.25	112	2.00	2.25		
Total Xylenes*	<0.150	0.150	09/01/2018	ND	6.82	114	6.00	2.41		
Total BTEX	<0.300	0.300	09/01/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.3 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/04/2018	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	09/01/2018	ND	203	101	200	9.94	
DRO >C10-C28*	184	10.0	09/01/2018	ND	211	106	200	8.13	
EXT DRO >C28-C36	43.1	10.0	09/01/2018	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 114 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Basin Environmental Service  
 ROBBIE RUNNELS  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	08/30/2018	Sampling Date:	08/29/2018
Reported:	09/05/2018	Sampling Type:	Soil
Project Name:	PENNZOIL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY- LEA CO NM		

**Sample ID: SP 2 @ 2' (H802469-02)**

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/01/2018	ND	2.42	121	2.00	1.72		
Toluene*	<0.050	0.050	09/01/2018	ND	2.28	114	2.00	2.71		
Ethylbenzene*	<0.050	0.050	09/01/2018	ND	2.25	112	2.00	2.25		
Total Xylenes*	<0.150	0.150	09/01/2018	ND	6.82	114	6.00	2.41		
Total BTEX	<0.300	0.300	09/01/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.9 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/04/2018	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	09/01/2018	ND	203	101	200	9.94	
DRO >C10-C28*	162	10.0	09/01/2018	ND	211	106	200	8.13	
EXT DRO >C28-C36	41.8	10.0	09/01/2018	ND					

Surrogate: 1-Chlorooctane 99.7 % 41-142

Surrogate: 1-Chlorooctadecane 112 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Basin Environmental Service  
 ROBBIE RUNNELS  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	08/30/2018	Sampling Date:	08/29/2018
Reported:	09/05/2018	Sampling Type:	Soil
Project Name:	PENNZOIL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY- LEA CO NM		

**Sample ID: SP 3 @ 0.75' (H802469-03)**

BTEX 8021B			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/01/2018	ND	2.42	121	2.00	1.72	
Toluene*	<0.050	0.050	09/01/2018	ND	2.28	114	2.00	2.71	
Ethylbenzene*	<0.050	0.050	09/01/2018	ND	2.25	112	2.00	2.25	
Total Xylenes*	<0.150	0.150	09/01/2018	ND	6.82	114	6.00	2.41	
Total BTEX	<0.300	0.300	09/01/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.2 % 69.8-142

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/04/2018	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	09/01/2018	ND	203	101	200	9.94	
DRO >C10-C28*	3280	50.0	09/01/2018	ND	211	106	200	8.13	
EXT DRO >C28-C36	937	50.0	09/01/2018	ND					

Surrogate: 1-Chlorooctane 95.4 % 41-142

Surrogate: 1-Chlorooctadecane 173 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

Basin Environmental Service  
 ROBBIE RUNNELS  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	08/30/2018	Sampling Date:	08/29/2018
Reported:	09/05/2018	Sampling Type:	Soil
Project Name:	PENNZOIL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY- LEA CO NM		

**Sample ID: SP 4 @ 0.5' (H802469-04)**

BTEX 8021B			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/01/2018	ND	2.42	121	2.00	1.72	
Toluene*	<0.050	0.050	09/01/2018	ND	2.28	114	2.00	2.71	
Ethylbenzene*	<0.050	0.050	09/01/2018	ND	2.25	112	2.00	2.25	
Total Xylenes*	<0.150	0.150	09/01/2018	ND	6.82	114	6.00	2.41	
Total BTEX	<0.300	0.300	09/01/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.4 % 69.8-142

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/04/2018	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<50.0	50.0	09/01/2018	ND	203	101	200	9.94		
DRO >C10-C28*	4180	50.0	09/01/2018	ND	211	106	200	8.13		
EXT DRO >C28-C36	1660	50.0	09/01/2018	ND						

Surrogate: 1-Chlorooctane 96.7 % 41-142

Surrogate: 1-Chlorooctadecane 306 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	08/30/2018	Sampling Date:	08/29/2018
Reported:	09/05/2018	Sampling Type:	Soil
Project Name:	PENNZOIL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY- LEA CO NM		

**Sample ID: SP 5 @ 0.75' (H802469-05)**

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/01/2018	ND	2.42	121	2.00	1.72		
Toluene*	<0.050	0.050	09/01/2018	ND	2.28	114	2.00	2.71		
Ethylbenzene*	<0.050	0.050	09/01/2018	ND	2.25	112	2.00	2.25		
Total Xylenes*	<0.150	0.150	09/01/2018	ND	6.82	114	6.00	2.41		
Total BTEX	<0.300	0.300	09/01/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.5 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2480	16.0	09/04/2018	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	09/01/2018	ND	203	101	200	9.94	
DRO >C10-C28*	1780	50.0	09/01/2018	ND	211	106	200	8.13	
EXT DRO >C28-C36	618	50.0	09/01/2018	ND					

Surrogate: 1-Chlorooctane 95.1 % 41-142

Surrogate: 1-Chlorooctadecane 211 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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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.
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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Caley D. Keene, Lab Director/Quality Manager







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September 03, 2019

DANIEL DOMINGUEZ

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: PENNZOIL #3 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/27/19 16:12.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/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 "Coley D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	08/27/2019	Sampling Date:	08/26/2019
Reported:	09/03/2019	Sampling Type:	Soil
Project Name:	PENNZOIL #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	8706	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY- UL I SEC1T19SR331		

**Sample ID: SAMPLE # 1 (H902959-01)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/31/2019	ND	1.97	98.3	2.00	0.922		
Toluene*	<0.050	0.050	08/31/2019	ND	1.97	98.5	2.00	2.06		
Ethylbenzene*	<0.050	0.050	08/31/2019	ND	1.98	99.0	2.00	2.09		
Total Xylenes*	<0.150	0.150	08/31/2019	ND	5.91	98.6	6.00	3.00		
Total BTEX	<0.300	0.300	08/31/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 86.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/03/2019	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2019	ND	216	108	200	2.35	
DRO >C10-C28*	<10.0	10.0	08/31/2019	ND	217	109	200	2.98	
EXT DRO >C28-C36	<10.0	10.0	08/31/2019	ND					

Surrogate: 1-Chlorooctane 131 % 41-142

Surrogate: 1-Chlorooctadecane 139 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	08/27/2019	Sampling Date:	08/26/2019
Reported:	09/03/2019	Sampling Type:	Soil
Project Name:	PENNZOIL #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	8706	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY- UL I SEC1T19SR331		

**Sample ID: SAMPLE # 2 (H902959-02)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/01/2019	ND	1.97	98.3	2.00	0.922		
Toluene*	<0.050	0.050	09/01/2019	ND	1.97	98.5	2.00	2.06		
Ethylbenzene*	<0.050	0.050	09/01/2019	ND	1.98	99.0	2.00	2.09		
Total Xylenes*	<0.150	0.150	09/01/2019	ND	5.91	98.6	6.00	3.00		
Total BTEX	<0.300	0.300	09/01/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 86.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/03/2019	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/31/2019	ND	216	108	200	2.35		
DRO >C10-C28*	2630	10.0	08/31/2019	ND	217	109	200	2.98		
EXT DRO >C28-C36	856	10.0	08/31/2019	ND						

Surrogate: 1-Chlorooctane 121 % 41-142

Surrogate: 1-Chlorooctadecane 225 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	08/27/2019	Sampling Date:	08/26/2019
Reported:	09/03/2019	Sampling Type:	Soil
Project Name:	PENNZOIL #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	8706	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY- UL I SEC1T19SR331		

**Sample ID: SAMPLE # 3 (H902959-03)**

BTEX 8021B			mg/kg		Analyzed By: BF				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/01/2019	ND	1.97	98.3	2.00	0.922	
Toluene*	<0.050	0.050	09/01/2019	ND	1.97	98.5	2.00	2.06	
Ethylbenzene*	<0.050	0.050	09/01/2019	ND	1.98	99.0	2.00	2.09	
Total Xylenes*	<0.150	0.150	09/01/2019	ND	5.91	98.6	6.00	3.00	
Total BTEX	<0.300	0.300	09/01/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 85.0 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/03/2019	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2019	ND	216	108	200	2.35	
DRO >C10-C28*	1090	10.0	08/31/2019	ND	217	109	200	2.98	
EXT DRO >C28-C36	579	10.0	08/31/2019	ND					

Surrogate: 1-Chlorooctane 110 % 41-142

Surrogate: 1-Chlorooctadecane 160 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	08/27/2019	Sampling Date:	08/26/2019
Reported:	09/03/2019	Sampling Type:	Soil
Project Name:	PENNZOIL #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	8706	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY- UL I SEC1T19SR331		

**Sample ID: SAMPLE # 4 (H902959-04)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/01/2019	ND	1.97	98.3	2.00	0.922		
Toluene*	<0.050	0.050	09/01/2019	ND	1.97	98.5	2.00	2.06		
Ethylbenzene*	<0.050	0.050	09/01/2019	ND	1.98	99.0	2.00	2.09		
Total Xylenes*	<0.150	0.150	09/01/2019	ND	5.91	98.6	6.00	3.00		
Total BTEX	<0.300	0.300	09/01/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 83.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>112</b>	16.0	09/03/2019	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/31/2019	ND	216	108	200	2.35		
<b>DRO &gt;C10-C28*</b>	<b>2040</b>	10.0	08/31/2019	ND	217	109	200	2.98		
<b>EXT DRO &gt;C28-C36</b>	<b>1370</b>	10.0	08/31/2019	ND						

Surrogate: 1-Chlorooctane 122 % 41-142

Surrogate: 1-Chlorooctadecane 200 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	08/27/2019	Sampling Date:	08/26/2019
Reported:	09/03/2019	Sampling Type:	Soil
Project Name:	PENNZOIL #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	8706	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY- UL I SEC1T19SR331		

**Sample ID: SAMPLE # 5 (H902959-05)**

BTEX 8021B			mg/kg		Analyzed By: BF				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/01/2019	ND	1.97	98.3	2.00	0.922	
Toluene*	<0.050	0.050	09/01/2019	ND	1.97	98.5	2.00	2.06	
Ethylbenzene*	<0.050	0.050	09/01/2019	ND	1.98	99.0	2.00	2.09	
Total Xylenes*	<0.150	0.150	09/01/2019	ND	5.91	98.6	6.00	3.00	
Total BTEX	<0.300	0.300	09/01/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 83.9 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/03/2019	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2019	ND	216	108	200	2.35	
DRO >C10-C28*	1730	10.0	08/31/2019	ND	217	109	200	2.98	
EXT DRO >C28-C36	969	10.0	08/31/2019	ND					

Surrogate: 1-Chlorooctane 120 % 41-142

Surrogate: 1-Chlorooctadecane 193 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	08/27/2019	Sampling Date:	08/26/2019
Reported:	09/03/2019	Sampling Type:	Soil
Project Name:	PENNZOIL #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	8706	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY- UL I SEC1T19SR331		

**Sample ID: SW # 1 (H902959-06)**

BTEX 8021B			mg/kg		Analyzed By: BF				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2019	ND	1.97	98.4	2.00	1.01	
Toluene*	<0.050	0.050	08/30/2019	ND	1.97	98.5	2.00	1.50	
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	1.99	99.7	2.00	0.605	
Total Xylenes*	<0.150	0.150	08/30/2019	ND	5.91	98.5	6.00	0.0981	
Total BTEX	<0.300	0.300	08/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.3 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/03/2019	ND	400	100	400	0.00	

TPH 8015M			mg/kg		Analyzed By: CK				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2019	ND	216	108	200	2.35	
DRO >C10-C28*	<10.0	10.0	08/31/2019	ND	217	109	200	2.98	
EXT DRO >C28-C36	<10.0	10.0	08/31/2019	ND					

Surrogate: 1-Chlorooctane 124 % 41-142

Surrogate: 1-Chlorooctadecane 133 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	08/27/2019	Sampling Date:	08/26/2019
Reported:	09/03/2019	Sampling Type:	Soil
Project Name:	PENNZOIL #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	8706	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY- UL I SEC1T19SR331		

**Sample ID: SW # 2 (H902959-07)**

BTEX 8021B			mg/kg		Analyzed By: BF				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2019	ND	1.97	98.4	2.00	1.01	
Toluene*	<0.050	0.050	08/30/2019	ND	1.97	98.5	2.00	1.50	
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	1.99	99.7	2.00	0.605	
Total Xylenes*	<0.150	0.150	08/30/2019	ND	5.91	98.5	6.00	0.0981	
Total BTEX	<0.300	0.300	08/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.4 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/03/2019	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2019	ND	216	108	200	2.35	
DRO >C10-C28*	6340	10.0	08/31/2019	ND	217	109	200	2.98	
EXT DRO >C28-C36	1830	10.0	08/31/2019	ND					

Surrogate: 1-Chlorooctane 98.4 % 41-142

Surrogate: 1-Chlorooctadecane 387 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	08/27/2019	Sampling Date:	08/26/2019
Reported:	09/03/2019	Sampling Type:	Soil
Project Name:	PENNZOIL #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	8706	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY- UL I SEC1T19SR331		

**Sample ID: SW # 3 (H902959-08)**

BTEX 8021B			mg/kg		Analyzed By: BF				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2019	ND	1.97	98.4	2.00	1.01	
Toluene*	<0.050	0.050	08/30/2019	ND	1.97	98.5	2.00	1.50	
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	1.99	99.7	2.00	0.605	
Total Xylenes*	<0.150	0.150	08/30/2019	ND	5.91	98.5	6.00	0.0981	
Total BTEX	<0.300	0.300	08/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.2 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4000	16.0	09/03/2019	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2019	ND	216	108	200	2.35	
DRO >C10-C28*	3760	10.0	08/31/2019	ND	217	109	200	2.98	
EXT DRO >C28-C36	1410	10.0	08/31/2019	ND					

Surrogate: 1-Chlorooctane 118 % 41-142

Surrogate: 1-Chlorooctadecane 246 % 37.6-147

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**Analytical Results For:**

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 Fax To: (575) 396-1429

Received:	08/27/2019	Sampling Date:	08/26/2019
Reported:	09/03/2019	Sampling Type:	Soil
Project Name:	PENNZOIL #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	8706	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY- UL I SEC1T19SR331		

**Sample ID: SW # 4 (H902959-09)**

BTEX 8021B			mg/kg		Analyzed By: BF				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2019	ND	1.97	98.4	2.00	1.01	
Toluene*	<0.050	0.050	08/30/2019	ND	1.97	98.5	2.00	1.50	
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	1.99	99.7	2.00	0.605	
<b>Total Xylenes*</b>	<b>0.159</b>	0.150	08/30/2019	ND	5.91	98.5	6.00	0.0981	
Total BTEX	<0.300	0.300	08/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.4 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>192</b>	16.0	09/03/2019	ND	400	100	400	0.00	

TPH 8015M			mg/kg		Analyzed By: CK					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<50.0	50.0	08/31/2019	ND	216	108	200	2.35		
<b>DRO &gt;C10-C28*</b>	<b>3290</b>	50.0	08/31/2019	ND	217	109	200	2.98		
<b>EXT DRO &gt;C28-C36</b>	<b>2310</b>	50.0	08/31/2019	ND						

Surrogate: 1-Chlorooctane 123 % 41-142

Surrogate: 1-Chlorooctadecane 325 % 37.6-147

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
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 Fax To: (575) 396-1429

Received:	08/27/2019	Sampling Date:	08/26/2019
Reported:	09/03/2019	Sampling Type:	Soil
Project Name:	PENNZOIL #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	8706	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY- UL I SEC1T19SR331		

**Sample ID: SW # 5 (H902959-10)**

BTEX 8021B			mg/kg		Analyzed By: BF				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2019	ND	1.97	98.4	2.00	1.01	
Toluene*	<0.050	0.050	08/30/2019	ND	1.97	98.5	2.00	1.50	
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	1.99	99.7	2.00	0.605	
Total Xylenes*	<0.150	0.150	08/30/2019	ND	5.91	98.5	6.00	0.0981	
Total BTEX	<0.300	0.300	08/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.0 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/03/2019	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2019	ND	216	108	200	2.35	
DRO >C10-C28*	2560	10.0	08/31/2019	ND	217	109	200	2.98	
EXT DRO >C28-C36	1090	10.0	08/31/2019	ND					

Surrogate: 1-Chlorooctane 106 % 41-142

Surrogate: 1-Chlorooctadecane 207 % 37.6-147

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
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 Fax To: (575) 396-1429

Received:	08/27/2019	Sampling Date:	08/26/2019
Reported:	09/03/2019	Sampling Type:	Soil
Project Name:	PENNZOIL #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	8706	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY- UL I SEC1T19SR331		

**Sample ID: SW # 6 (H902959-11)**

BTEX 8021B			mg/kg		Analyzed By: BF				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2019	ND	1.97	98.4	2.00	1.01	
Toluene*	<0.050	0.050	08/30/2019	ND	1.97	98.5	2.00	1.50	
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	1.99	99.7	2.00	0.605	
Total Xylenes*	<0.150	0.150	08/30/2019	ND	5.91	98.5	6.00	0.0981	
Total BTEX	<0.300	0.300	08/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 85.6 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/03/2019	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	08/31/2019	ND	216	108	200	2.35	
DRO >C10-C28*	8830	50.0	08/31/2019	ND	217	109	200	2.98	
EXT DRO >C28-C36	3360	50.0	08/31/2019	ND					

Surrogate: 1-Chlorooctane 117 % 41-142

Surrogate: 1-Chlorooctadecane 507 % 37.6-147

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**Analytical Results For:**

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 Fax To: (575) 396-1429

Received:	08/27/2019	Sampling Date:	08/26/2019
Reported:	09/03/2019	Sampling Type:	Soil
Project Name:	PENNZOIL #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	8706	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY- UL I SEC1T19SR331		

**Sample ID: SW # 7 (H902959-12)**

BTEX 8021B			mg/kg		Analyzed By: BF				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2019	ND	1.97	98.4	2.00	1.01	
Toluene*	<0.050	0.050	08/30/2019	ND	1.97	98.5	2.00	1.50	
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	1.99	99.7	2.00	0.605	
Total Xylenes*	<0.150	0.150	08/30/2019	ND	5.91	98.5	6.00	0.0981	
Total BTEX	<0.300	0.300	08/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 86.6 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/03/2019	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<50.0	50.0	08/31/2019	ND	216	108	200	2.35		
DRO >C10-C28*	6300	50.0	08/31/2019	ND	217	109	200	2.98		
EXT DRO >C28-C36	2840	50.0	08/31/2019	ND						

Surrogate: 1-Chlorooctane 119 % 41-142

Surrogate: 1-Chlorooctadecane 359 % 37.6-147

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**Analytical Results For:**

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 DANIEL DOMINGUEZ  
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 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	08/27/2019	Sampling Date:	08/26/2019
Reported:	09/03/2019	Sampling Type:	Soil
Project Name:	PENNZOIL #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	8706	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY- UL I SEC1T19SR331		

**Sample ID: SW # 8 (H902959-13)**

BTEX 8021B			mg/kg		Analyzed By: BF				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2019	ND	1.97	98.4	2.00	1.01	
Toluene*	<0.050	0.050	08/30/2019	ND	1.97	98.5	2.00	1.50	
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	1.99	99.7	2.00	0.605	
Total Xylenes*	<0.150	0.150	08/30/2019	ND	5.91	98.5	6.00	0.0981	
Total BTEX	<0.300	0.300	08/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 85.5 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	09/03/2019	ND	400	100	400	0.00	

TPH 8015M			mg/kg		Analyzed By: CK					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<50.0	50.0	08/31/2019	ND	216	108	200	2.35		
DRO >C10-C28*	5390	50.0	08/31/2019	ND	217	109	200	2.98		
EXT DRO >C28-C36	2030	50.0	08/31/2019	ND						

Surrogate: 1-Chlorooctane 125 % 41-142

Surrogate: 1-Chlorooctadecane 372 % 37.6-147

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**Analytical Results For:**

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 Fax To: (575) 396-1429

Received:	08/27/2019	Sampling Date:	08/26/2019
Reported:	09/03/2019	Sampling Type:	Soil
Project Name:	PENNZOIL #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	8706	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY- UL I SEC1T19SR331		

**Sample ID: SW # 9 (H902959-14)**

BTEX 8021B			mg/kg		Analyzed By: BF				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2019	ND	1.97	98.4	2.00	1.01	
Toluene*	<0.050	0.050	08/30/2019	ND	1.97	98.5	2.00	1.50	
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	1.99	99.7	2.00	0.605	
Total Xylenes*	<0.150	0.150	08/30/2019	ND	5.91	98.5	6.00	0.0981	
Total BTEX	<0.300	0.300	08/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 85.5 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2160	16.0	09/03/2019	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2019	ND	216	108	200	2.35	
DRO >C10-C28*	3950	10.0	08/31/2019	ND	217	109	200	2.98	
EXT DRO >C28-C36	1410	10.0	08/31/2019	ND					

Surrogate: 1-Chlorooctane 119 % 41-142

Surrogate: 1-Chlorooctadecane 272 % 37.6-147

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**Analytical Results For:**

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Received:	08/27/2019	Sampling Date:	08/26/2019
Reported:	09/03/2019	Sampling Type:	Soil
Project Name:	PENNZOIL #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	8706	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY- UL I SEC1T19SR331		

**Sample ID: SW # 10 (H902959-15)**

BTEX 8021B			mg/kg		Analyzed By: BF				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2019	ND	1.97	98.4	2.00	1.01	
Toluene*	<0.050	0.050	08/30/2019	ND	1.97	98.5	2.00	1.50	
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	1.99	99.7	2.00	0.605	
Total Xylenes*	<0.150	0.150	08/30/2019	ND	5.91	98.5	6.00	0.0981	
Total BTEX	<0.300	0.300	08/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 84.1 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	09/03/2019	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	08/31/2019	ND	216	108	200	2.35	
DRO >C10-C28*	9900	50.0	08/31/2019	ND	217	109	200	2.98	
EXT DRO >C28-C36	3410	50.0	08/31/2019	ND					

Surrogate: 1-Chlorooctane 121 % 41-142

Surrogate: 1-Chlorooctadecane 618 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

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

---

### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

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---

Caley D. Keene, Lab Director/Quality Manager

**CARDINAL**  
Laboratories

# BILL TO

ANALYSIS REQUEST

**Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476**  
**FORM-006 R.2.0**









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

September 25, 2019

DANIEL DOMINGUEZ

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: PENNZOIL #3 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 09/24/19 14:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/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:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	09/24/2019	Sampling Date:	09/23/2019
Reported:	09/25/2019	Sampling Type:	Soil
Project Name:	PENNZOIL #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	8706	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY- UL I SEC1T19SR331		

**Sample ID: SW 9 -b @ 1' (H903283-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/25/2019	ND	400	100	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	09/24/2019	ND	197	98.3	200	3.82		
DRO >C10-C28*	172	10.0	09/24/2019	ND	197	98.5	200	1.93		
EXT DRO >C28-C36	70.3	10.0	09/24/2019	ND						
Surrogate: 1-Chlorooctane										
	95.9 %	41-142								
Surrogate: 1-Chlorooctadecane										
	115 %	37.6-147								

**Sample ID: SW 3 -b @ 6" (H903283-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/25/2019	ND	400	100	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	09/24/2019	ND	197	98.3	200	3.82	
DRO >C10-C28*	1120	10.0	09/24/2019	ND	197	98.5	200	1.93	
EXT DRO >C28-C36	518	10.0	09/24/2019	ND					
Surrogate: 1-Chlorooctane	94.6 %	41-142							
Surrogate: 1-Chlorooctadecane	142 %	37.6-147							

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	09/24/2019	Sampling Date:	09/23/2019
Reported:	09/25/2019	Sampling Type:	Soil
Project Name:	PENNZOIL #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	8706	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY- UL I SEC1T19SR331		

**Sample ID: SW 4 -b @ 6" (H903283-03)**

TPH 8015M	mg/kg	Analyzed By: MS						S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2019	ND	197	98.3	200	3.82	
<b>DRO &gt;C10-C28*</b>	<b>3880</b>	10.0	09/24/2019	ND	197	98.5	200	1.93	
<b>EXT DRO &gt;C28-C36</b>	<b>1340</b>	10.0	09/24/2019	ND					
<hr/>									
Surrogate: 1-Chlorooctane	94.6 %	41-142							
Surrogate: 1-Chlorooctadecane	221 %	37.6-147							

**Sample ID: SW 10 -b @ 1' (H903283-04)**

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	09/24/2019	ND	197	98.3	200	3.82	
<b>DRO &gt;C10-C28*</b>	<b>305</b>	10.0	09/24/2019	ND	197	98.5	200	1.93	
<b>EXT DRO &gt;C28-C36</b>	<b>102</b>	10.0	09/24/2019	ND					
<hr/>									
Surrogate: 1-Chlorooctane	101 %	41-142							
Surrogate: 1-Chlorooctadecane	116 %	37.6-147							

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	09/24/2019	Sampling Date:	09/23/2019
Reported:	09/25/2019	Sampling Type:	Soil
Project Name:	PENNZOIL #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	8706	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY- UL I SEC1T19SR331		

**Sample ID: SW 2 -b @ 1' (H903283-05)**

TPH 8015M	mg/kg	Analyzed By: MS						S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2019	ND	197	98.3	200	3.82	
<b>DRO &gt;C10-C28*</b>	<b>1890</b>	10.0	09/24/2019	ND	197	98.5	200	1.93	
<b>EXT DRO &gt;C28-C36</b>	<b>537</b>	10.0	09/24/2019	ND					
<hr/>									
Surrogate: 1-Chlorooctane	97.1 %	41-142							
Surrogate: 1-Chlorooctadecane	161 %	37.6-147							

**Sample ID: SW 6 -b @ 1' (H903283-06)**

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	09/24/2019	ND	197	98.3	200	3.82	
DRO >C10-C28*	<10.0	10.0	09/24/2019	ND	197	98.5	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	09/24/2019	ND					
<hr/>									
Surrogate: 1-Chlorooctane	95.0 %	41-142							
Surrogate: 1-Chlorooctadecane	99.9 %	37.6-147							

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	09/24/2019	Sampling Date:	09/23/2019
Reported:	09/25/2019	Sampling Type:	Soil
Project Name:	PENNZOIL #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	8706	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY- UL I SEC1T19SR331		

**Sample ID: SW 7 -b @ 1' (H903283-07)**

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	09/24/2019	ND	197	98.3	200	3.82	
DRO >C10-C28*	<10.0	10.0	09/24/2019	ND	197	98.5	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	09/24/2019	ND					
Surrogate: 1-Chlorooctane	94.7 %	41-142							
Surrogate: 1-Chlorooctadecane	98.3 %	37.6-147							

**Sample ID: SW 8 -b @ 1' (H903283-08)**

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	09/24/2019	ND	197	98.3	200	3.82	
DRO >C10-C28*	<10.0	10.0	09/24/2019	ND	197	98.5	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	09/24/2019	ND					
Surrogate: 1-Chlorooctane	93.1 %	41-142							
Surrogate: 1-Chlorooctadecane	97.3 %	37.6-147							

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Celey D. Keene, Lab Director/Quality Manager





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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.
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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager

L jo L ege



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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Chisholm Energy Operating, LLC  
Project Manager: Daniel Dominguez

Address: 3100 Plains Hwy

City: Lovington

Phone #: 575-396-2378

Project #: 8706

Project Name: Pennzoil #3 Battery

Project Location: UL/"I" Sec 1 T19S - R33W

Sampler Name: Catalina Villa

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST									
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			Chloride	TPH	BTEX 8021							
1	SW9-b@1'	C	1			X				9-23-19	10:08	X	X	X							
2	SW3-b@6"	C	1			X				9-23-19	10:35	X	X	X							
3	SW4-b@6"	C	1			X				9-23-19	10:44	X	X	X							
4	SW10-b@1'	C	1			X				9-23-19	11:09	X	X	X							
5	SW2-b@1'	C	1			X				9-23-19	11:11	X	X	X							
6	SW6-b@1'	C	1			X				9-23-19	12:50	X	X	X							
7	SW7-b@1'	C	1			X				9-23-19	12:53	X	X	X							
8	SW8-b@1'	C	1			X				9-23-19	1:00	X	X	X							

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Relinquished By:

Date: 9-24-19

Time: 14:45

Received By:

Date: 9-24-19

Time: 14:45

Received By:

Date: 9-24-19

Time: 14:45

Received By:

Date: 9-24-19

Time: 14:45

Relinquished By:

Date: 9-24-19

Time: 14:45

Received By:

Date: 9-24-19

Time: 14:45

Received By:

Date: 9-24-19

Time: 14:45

Received By:

Date: 9-24-19

Time: 14:45

Delivered By: (Circle One) - 2.92

Sample Condition

Cool ☐ Intact ☐

Yes ☐ No ☐

Checked By: (Initials)

9-24-19

Phone Result: ☐ Yes ☐ No ☐

Fax Result: ☐ Yes ☐ No ☐

Add'l Phone #:

Add'l Fax #:

REMARKS: email results to daniel@etechnv.com

Rush

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

FORM-006 R 2.0

ATTACHMENT IV  
NMOCD Form C-141



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

Form C-141  
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in  
accordance with 19.15.29 NMAC.

### Release Notification and Corrective Action

#### OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Nearburg Producing Company	Contact	Tim Green
Address	3300 North A St., Bldg. 2, Suite 120	Telephone No.	(432) 818-2940
Facility Name	Pennzoil #1	Facility Type	Battery

Surface Owner	BLM - Federal	Mineral Owner	Federal	API No.	30-025-26498
---------------	---------------	---------------	---------	---------	--------------

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	1	19S	33E	2,180	South	660	East	Lea

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

#### NATURE OF RELEASE

Type of Release	Spill/Hole in equipment	Volume of Release	65 Bbls	Volume Recovered	30 Bbls
Source of Release	Heater Treater	Date and Hour of Occurrence	3/27/17	Date and Hour of Discovery	3/27/17 3:00 P.M.
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Kent Caffall/Shelly Tucker			
By Whom?	Matt Lee	Date and Hour 3/28/17 12:30 PM			
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.\*


Describe Cause of Problem and Remedial Action Taken.\*

Hole in heater treater. Remove contaminated soil and haul to E360 disposal. Replace with new caliche.

Describe Area Affected and Cleanup Action Taken.\*

Fluid was contained inside of dike. 40 bbls water and 25 bbls oil. Recovered 15 bbls water and 15 bbls oil.

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: Tim Green	Approved by Environmental Specialist:	
Title: Production Services Manager	Approval Date:	Expiration Date:
E-mail Address: tgreen@nearburg.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: March 29, 2017 Phone: (432) 818-2940		

\* Attach Additional Sheets If Necessary

Form C-141

State of New Mexico

Page 6

Oil Conservation Division

Incident ID	nY1710040532
District RP	
Facility ID	
Application ID	

## Closure

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

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

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

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

Printed Name: Jennifer Elrod Title: Sr. Regulatory Analyst  
 Signature: *Jennifer Elrod* Date: 11/19/2019  
 email: jelrod@chisholmenergy.com Telephone: 817-953-3728

### 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: *Bradford Billings* Date: 07/21/2021  
 Printed Name: Bradford Billings Title: Envi.Spec.A

CONDITIONS

Some deeper level of excavation will be needed on pad relative to section 13 of part 29 rule which may occur at P&A of location



**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 2548

CONDITIONS

Operator: CHISHOLM ENERGY OPERATING, LLC 801 Cherry Street Fort Worth, TX 76102	OGRID: 372137
	Action Number: 2548
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bbillings	Additional excavation/remediation will be needed on pad relative to section 13 of part 29 rule, which may occur at P&A of location	7/21/2021