

Volume calculator

There was no volume calculator prepared when the spill occurred.



**LONE TREE DRAW 13 STATE COM #2H**  
**Incident ID nAPP2104831006**

**Remediation Closure Report**

Prepared for Devon Energy Production, LP --- Prepared by Pima Environmental Services, LLC

August 20, 2024

NMOCD District 2  
811 S First St.  
Artesia, NM 88210

**Re: Remediation Closure Report**  
**Lone Tree Draw 13 State Com #002H**  
**API No. 30-015-40372**  
**GPS: Latitude 32.487372 Longitude -104.149953**  
**ULSTR – D – 13 – 21 – 27E      0 FNL 0 FEL      Eddy County, NM**  
**NMOCD Incident ID nAPP2104831006**

This crude oil release was discovered by the operator on January 31, 2021. The initial Notification of Release and C-141 form were submitted on November 16, 2022 (OCD Permitting: Action Status, under the Application ID: 18194). This incident was assigned Incident ID nAPP2104831006 by the New Mexico Oil Conservation Division (NMOCD).

### Release Information

**nAPP2104831006:** On January 31, 2021, Check valve failed causing VRU to swamp out and release fluid from the pressure release on the pump. All fluid stayed on the battery pad. This spill was not in containment. Approximately 22 barrels (bbls) of crude oil were released and 20 bbls were recovered via vacuum truck.

### Site Information and Site Characterization

The Lone Tree Draw 13 State Com #002H (Lone Tree) is located approximately six (6) miles northeast of Carlsbad, NM. The release area on the well pad is in Unit D, Section 13, Township 21S, Range 27E, Latitude 32.487372 Longitude -104.149953, Eddy County, NM. A Location Map can be found in Figure 1.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology in this area is made up of Eolian deposits; Holocene to middle Pleistocene. The soil in this area is made up of Gypsum land-Reeves complex, 0 to 3 percent slopes, eroded according to the United States Department of Agriculture Natural Resources Conservation Service soil survey. The drainage class in this area is: well drained (Appendix B). A Topographic Map can be found in Figure 2. The nearest surface water feature is Lake Avalon located approximately 5.13 miles to the west of this release area. There is a high potential for karst geology to be present around the Lone Tree (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 45 feet below grade surface (bgs). NMOSE pod C-03864-POD1 is located approximately 1.17 miles away from this site. According to the United States Geological Survey well water data for USGS 323021104082201 21S.27E.01.43222, depth to the nearest groundwater in this area is 12 feet bgs. The groundwater information from this well is situated approximately 1.35 miles away from this site. Referenced water surveys and water-related maps can be found in Appendix A.

### Delineation & Remediation Activities

For this release, a remediation was performed, and a closure report was submitted on November 15, 2022. This remediation closure report was rejected and can be found in OCD Permitting: Action Status, under the Application ID: 158761.

The OCD has rejected the submitted Application for administrative approval of a release notification and corrective action (C-141), for incident ID (n#) nAPP2104831006, for the following reasons:

- **The Closure Report is denied. This release is in a high karst area and will need to be remediated to the strictest closure criteria of <50' depth to groundwater from Table 1 of the spill rule. Sidewall/floor samples need to comply with the strictest closure criteria limits of 600 mg/kg for Chlorides and 100 mg/kg TPH. TPH on soil sample locations SP-1 is 156 mg/kg, SP-3 is 181 mg/kg, SP-7 is 135 mg/kg, and SP-8 is 171 mg/kg. Please continue to excavate these soil sample locations until they meet closure criteria standards.**

Resubmit report by 7/25/24. The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 158761. Please review and make the required correction(s) prior to resubmitting. If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141. A Previous Site Map and Previous Data Table can be found in Figures 4 and 5.

## Remediation Activities & Countermeasures to Closure Rejection

On August 7, 2024, the Devon construction department and Pima Environmental mobilized personnel and equipment to the location to begin remediation of the remaining contaminated areas. Approximately 2.5' of soil was excavated from a 150 square foot area surrounding SP-1. Approximately 1.5' of soil was excavated from each area surrounding SP-3, SP-7, and SP-8 totaling 423 square feet. The estimated total combined volume of soil removed was approximately 38 cubic yards. The contaminated soil was removed utilizing hand-tools due to the areas being within proximity of sensitive plumbing and electrical equipment. The contaminated soil was disposed of at R360, an NMOCD-approved disposal facility.

On August 9, 2024, after Devon submitted a 48-hour sampling notification, confirmation samples were collected from the excavated areas. A total of 4 composite base samples were collected, and 4 composite wall samples were collected. All samples were put on ice, jarred, and delivered to Envirotech Analytical Laboratories, an NMOCD-approved laboratory for official analysis for all constituents listed in Table 1 19.15.29.12 NMAC. The results of this sampling event can be seen in the following data table. A corresponding Confirmation Sample Map can be found in Figure 5.

8/9/24 Confirmation Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
DEVON ENERGY - Lone Tree Draw 13 State 2H - nAPP2104831006								
Date: 8/9/24			NM Approved Laboratory Results					
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
CS1-2.5'	2.5'	ND	ND	ND	ND	ND	0	ND
CSW1-2.5'	2.5'	ND	ND	ND	ND	ND	0	ND
CS2-1.5'	1.5'	ND	ND	ND	ND	ND	0	ND
CSW2-1.5'	1.5'	ND	ND	ND	ND	ND	0	ND
CS3-1.5'	1.5'	ND	ND	ND	ND	ND	0	ND
CSW3-1.5'	1.5'	ND	ND	ND	ND	ND	0	ND
CS4-1.5'	1.5'	ND	ND	ND	ND	ND	0	ND
CSW4-1.5'	1.5'	ND	ND	ND	ND	ND	0	ND

Complete Laboratory Reports can be found in Appendix E.

## Closure Approval Request

After careful review, the sample results are under the regulatory limits of the <50' depth to groundwater section of Table 1 19.15.29.12 NMAC. Devon Energy requests that this remediation closure report for incident nAPP2104831006, be approved. Devon has complied with the applicable remediation plan requirements set forth in rule 19.15.29.12 NMAC and understands that reclamation of this pad area once it is no longer needed for production or subsequent drilling operations will require an approved reclamation plan addressing a minimum of four feet of non-waste containing earthen material.

For questions or additional information, please feel free to contact:

Devon Energy – Dale Woodall – 575-748-1838 or [dale.woodall@dvn.com](mailto:dale.woodall@dvn.com).

Pima Environmental – Tom Bynum – 580-748-1613 or [tom@pimaoil.com](mailto:tom@pimaoil.com).

## Attachments

Figures:

- 1- Location Map
- 2- Topographic Map
- 3- Karst Map
- 4- Previous Site Map
- 5- Previous Data Table
- 6- Confirmation Sample Map



Appendices:

Appendix A – Referenced Water Surveys and Water-Related Maps

Appendix B – Soil Survey and Geologic Unit Map

Appendix C – 48-Hour Notification and NMOCD Correspondence

Appendix D – Photographic Documentation

Appendix E – Laboratory Reports

## Figures:

Figure 1- Location Map

Figure 2- Topographic Map

Figure 3- Karst Map

Figure 4- Previous Site Map

Figure 5- Previous Data Table

Figure 6- Confirmation Sample Map

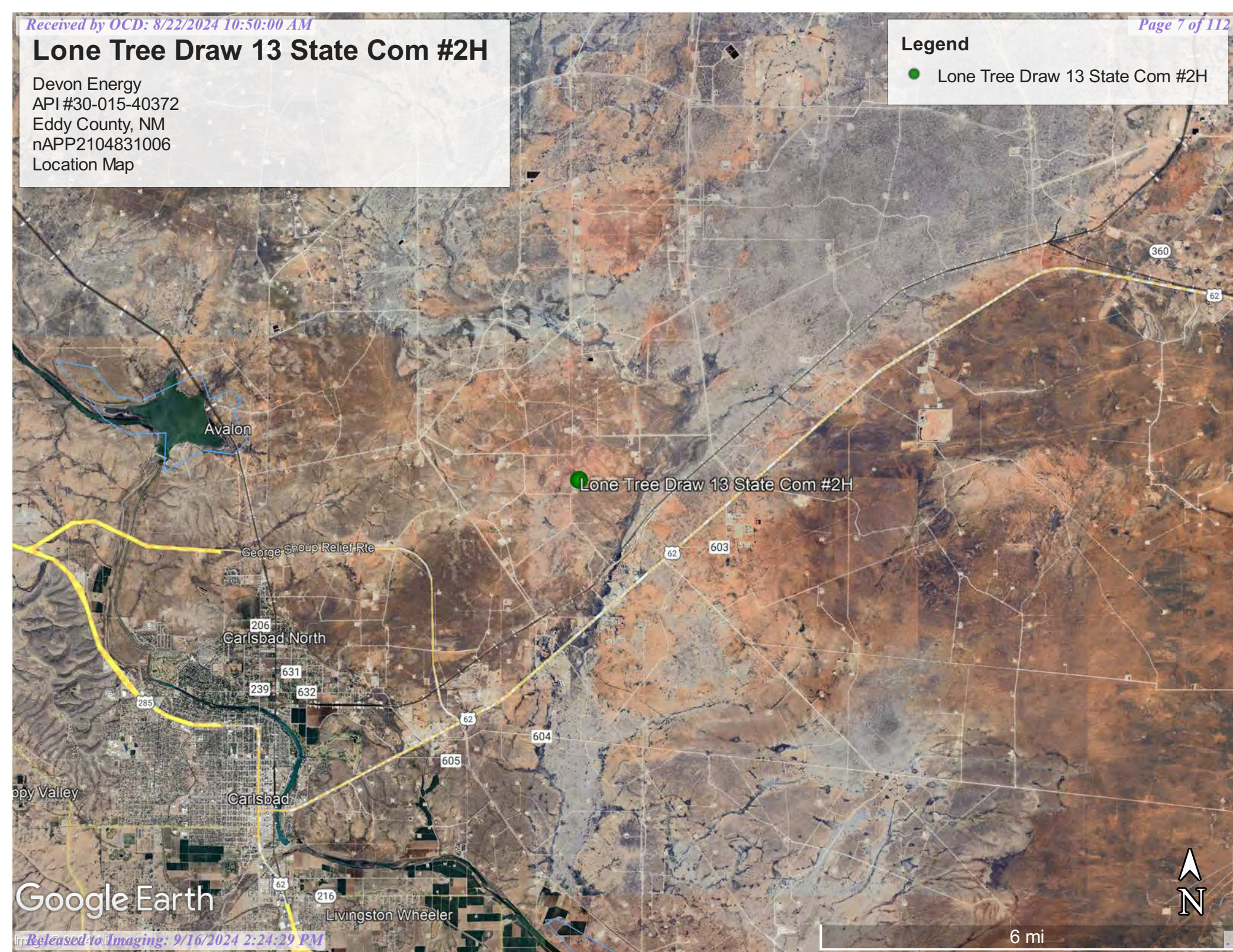


# Lone Tree Draw 13 State Com #2H

Devon Energy  
API #30-015-40372  
Eddy County, NM  
nAPP2104831006  
Location Map

## Legend

- Lone Tree Draw 13 State Com #2H



Google Earth

6 mi

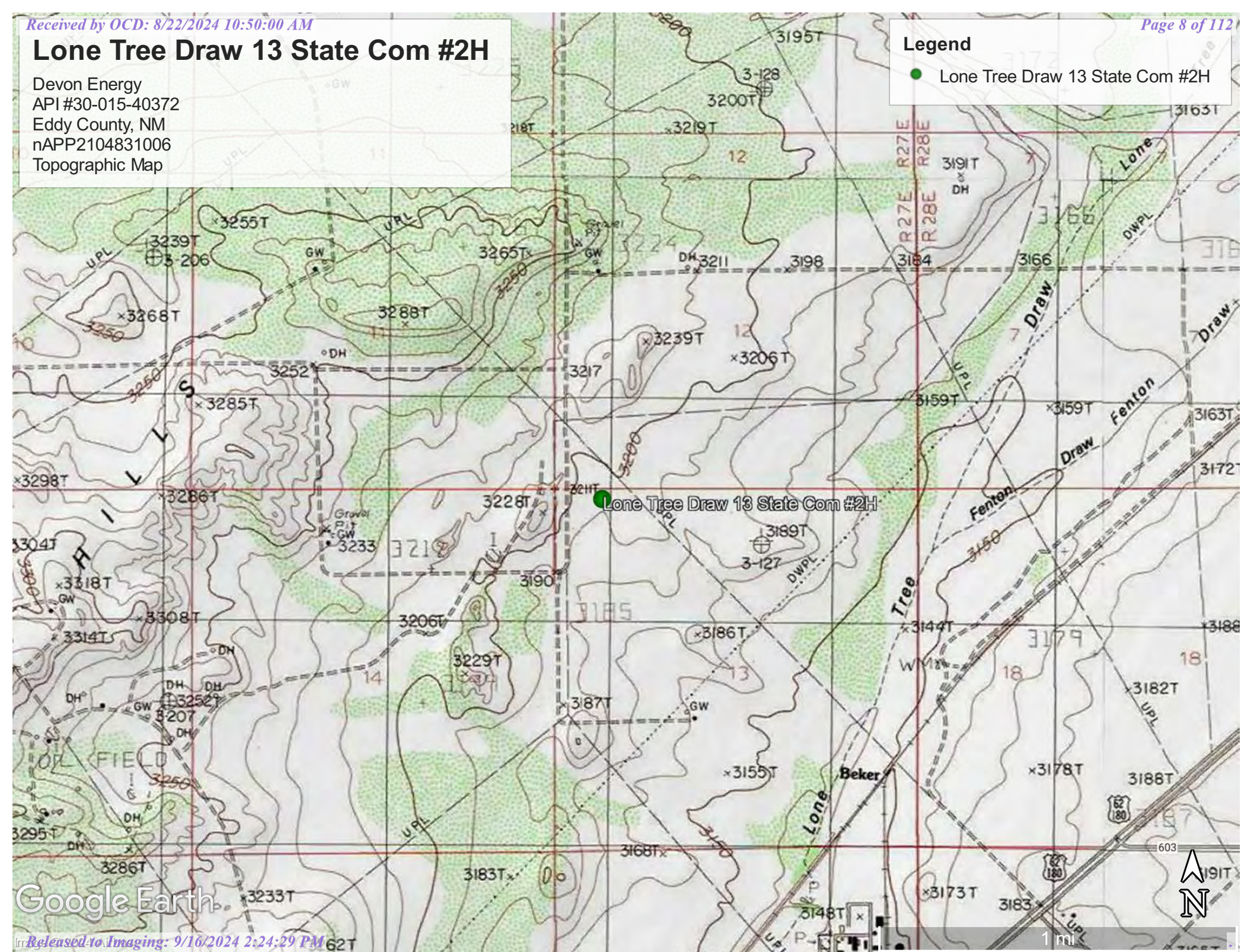


# Lone Tree Draw 13 State Com #2H

Devon Energy  
API #30-015-40372  
Eddy County, NM  
nAPP2104831006  
Topographic Map

## Legend

- Lone Tree Draw 13 State Com #2H








# Lone Tree Draw 13 State Com #2H

Devon Energy  
API #30-015-40372  
Eddy County, NM  
nAPP2104831006  
Karst Map

## Legend

-  High Karst
-  Low Karst
-  Medium Karst

Lone Tree Draw 13 State Com #2H

180

603

603

62



1 mi

Google Earth



# Devon Energy

Lone Tree Draw 13 St 2H  
D-13-21S-27E  
Previous Site Map  
NAPP2104831006

## Legend

- Excavation 1
- Horiz Extent
- Vert Extent



Google Earth

Released to Imaging: 9/16/2024 2:24:29 PM

60 ft



Previous Data Table

Devon Energy Lone tree Draw 13 St 2H Soil Sample Results: Hall Environmental Laboratories 10/8/21								
SAMPLE ID	Chloride	GRO	DRO	MRO	Benzene	Toluene	Ethyl benzene	Total Xylenes
SP-1 @ 2'	430	ND	56	100	ND	ND	ND	ND
SP-2 @ 1'	190	ND	ND	ND	ND	ND	ND	ND
SP-3 @ 1'	120	ND	100	81	ND	ND	ND	ND
SP-4 @ 1'	84	ND	ND	ND	ND	ND	ND	ND
SP-5 @ 1'	ND	ND	ND	ND	ND	ND	ND	ND
SP-6 @ 1'	83	ND	ND	ND	ND	ND	ND	ND
SP-7 @ 1'	ND	ND	81	54	ND	ND	ND	ND
SP-8 @ 1'	450	ND	61	110	ND	ND	ND	ND
SP-9 @ 1'	85	ND	ND	ND	ND	ND	ND	ND
SP-10 @ 1'	86	ND	ND	ND	ND	ND	ND	ND
SP-11 @ 1'	ND	ND	ND	ND	ND	ND	ND	ND
SP-12 @ 1'	ND	ND	ND	ND	ND	ND	ND	ND
SP-13 @ 1'	ND	ND	ND	ND	ND	ND	ND	ND
AH-14 @ 1'	ND	ND	ND	ND	ND	ND	ND	ND
AH-15 @ 1'	ND	ND	ND	ND	ND	ND	ND	ND
AH-16 @ 1'	ND	ND	ND	ND	ND	ND	ND	ND
Horizontal Extent								
H-N Wall 1	ND	ND	ND	ND	ND	ND	ND	ND
H-N Wall 2	ND	ND	ND	ND	ND	ND	ND	ND
H-N Wall 3	ND	ND	ND	ND	ND	ND	ND	ND
H-E Wall 1	ND	ND	ND	ND	ND	ND	ND	ND
H-E Wall 2	ND	ND	ND	ND	ND	ND	ND	ND
H-S Wall 1	200	ND	ND	ND	ND	ND	ND	ND
H-S Wall 2	ND	ND	35	ND	ND	ND	ND	ND
H-W Wall 1	220	ND	ND	ND	ND	ND	ND	ND
H-W Wall 2	85	ND	ND	ND	ND	ND	ND	ND



# Lone Tree Draw 13 State Com 2H

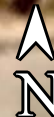
Devon Energy  
API #30-015-40372  
Eddy County, NM  
nAPP2104831006  
Confirmation Sample Map

## Legend

- Composite base samples
- Composite wall samples
- SP-1 area - 150 sqft
- SP-3 area - 126 sqft
- SP-7 area - 141 sqft
- SP-8 area - 156 sqft



Lone Tree Draw 13 St Com 2H Battery



Google Earth





## Appendix A

### Water Surveys:

- OSE
- USGS
- Surface Water Map
- Wetlands Map
- Fema Flood Map



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

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

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">C 00473</a>	C	CUB	ED	3	2	14	21S	27E		579087	3594177*	989	562		
<a href="#">C 00465</a>	C	CUB	ED	3	2	1	14	21S	27E	578576	3594475*	1331			
<a href="#">C 00466</a>	C	CUB	ED	3	3	1	14	21S	27E	578173	3594066*	1843	538		
<a href="#">C 03864 POD1</a>		CUB	ED	2	4	4	13	21S	27E	581218	3593472	1876	160	45	115
<a href="#">C 03272 POD1</a>		CUB	ED	4	3	1	18	21S	28E	581632	3594114*	1881	22	9	13
<a href="#">C 03607 POD1</a>		CUB	ED	2	2	2	24	21S	27E	581145	3593139	2076	275	10	265
<a href="#">C 00469</a>	C	CUB	ED	1	4	02	21S	27E		579078	3596994*	2352	767		
<a href="#">C 03690 POD1</a>		C	ED	4	1	4	10	21S	27E	577482	3595179	2423	200		
<a href="#">C 00370</a>	C	CUB	ED	4	4	15	21S	27E		577874	3593350*	2457			
<a href="#">C 03268 POD1</a>		CUB	ED	4	2	4	01	21S	27E	581201	3596915	2514	48	13	35
<a href="#">C 02992</a>		C	ED	3	3	2	01	21S	27E	580594	3597311*	2632	250	186	64
<a href="#">C 00314</a>		C	ED	1	4	24	21S	27E		580742	3592180*	2741	397		
<a href="#">C 03350</a>		C	ED	1	4	2	01	21S	27E	580896	3597476	2884	76	8	68

Average Depth to Water: **45 feet**

Minimum Depth: **8 feet**

Maximum Depth: **186 feet**

**Record Count:** 13

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

**Easting (X):** 579872.36

**Northing (Y):** 3594779.63

**Radius:** 3000

\*UTM location was derived from PLSS - see Help

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

7/11/24 7:30 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

## OSE POD Location Map



7/11/2024, 8:32:52 AM

GIS WATERS PODs

Pending

Plugged

OSE District Boundary

Water Right Regulations

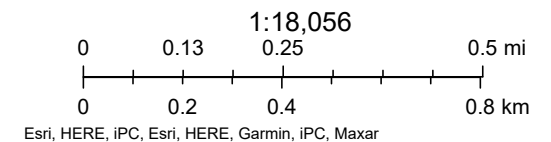
Artesian Planning Area

New Mexico State Trust Lands

Subsurface Estate

NHD Flowlines

Stream River







[USGS Home](#)  
[Contact USGS](#)  
[Search USGS](#)

## National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

Click to hide News Bulletins

- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.

Groundwater levels for the Nation



Important: [Next Generation Monitoring Location Page](#)

### Search Results -- 1 sites found

site\_no list =

- 323021104082201

Minimum number of levels = 1

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

### USGS 323021104082201 21S.27E.01.43222

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°30'21", Longitude 104°08'22" NAD27

Land-surface elevation 3,193 feet above NAVD88

The depth of the well is 30 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

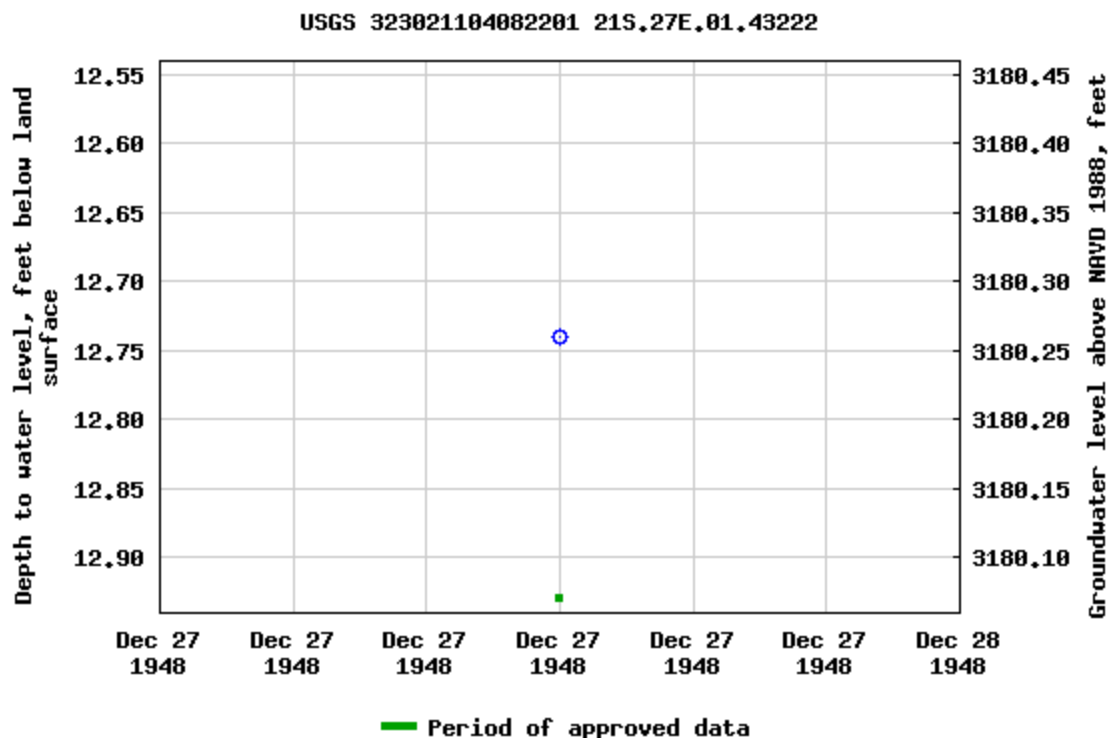
#### Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)



Breaks in the plot represent a gap of at least one year between field measurements.

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

**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: 2024-07-11 09:36:03 EDT

0.55 0.49 nadww02



## National Water Information System: Mapper



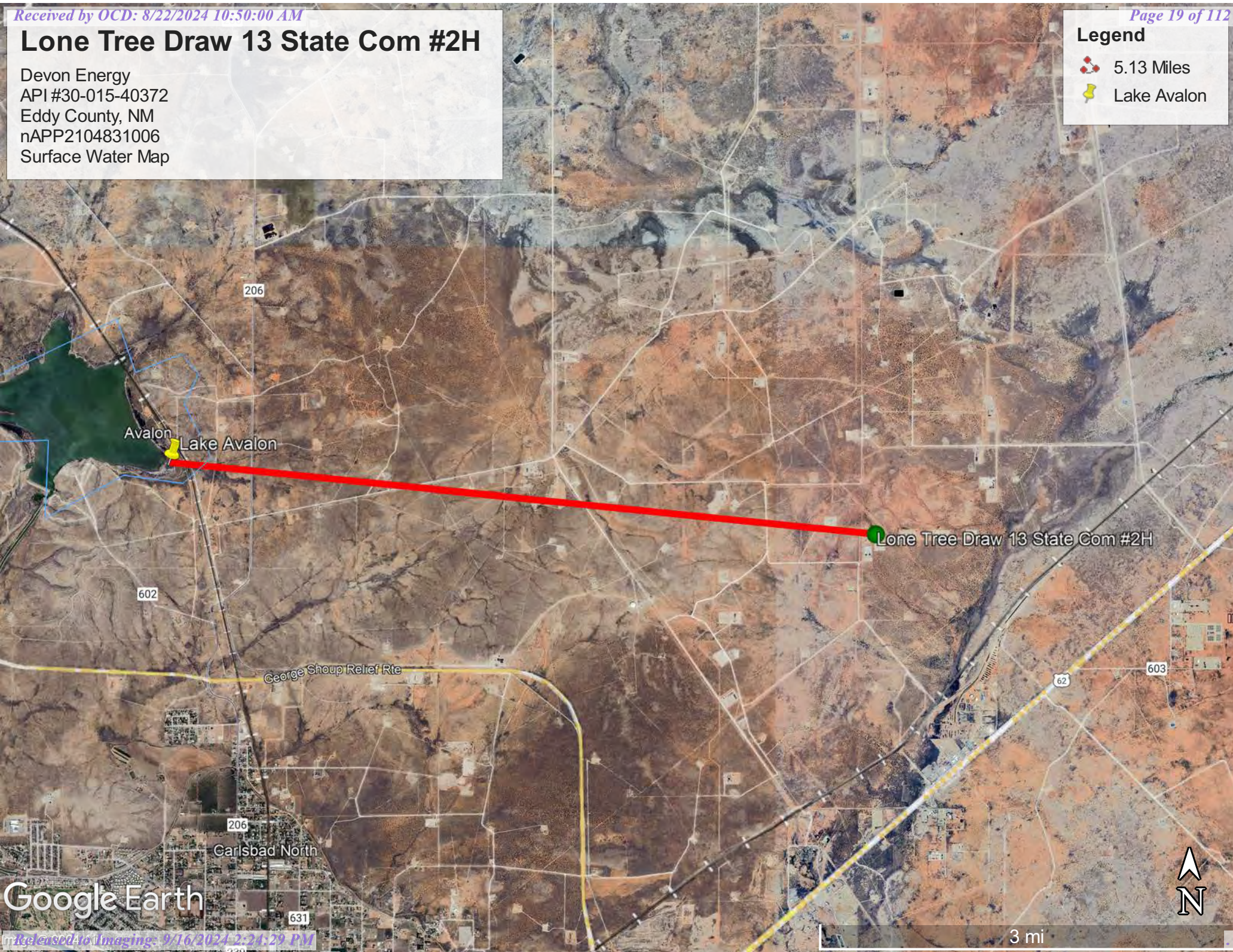


# Lone Tree Draw 13 State Com #2H

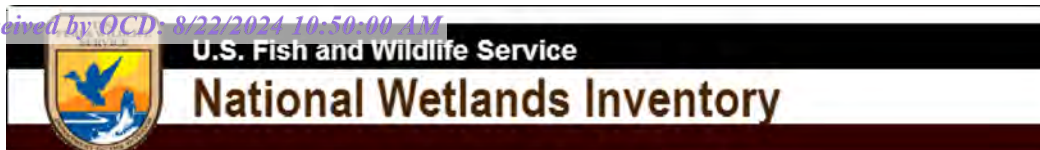
Devon Energy  
API #30-015-40372  
Eddy County, NM  
nAPP2104831006  
Surface Water Map

## Legend

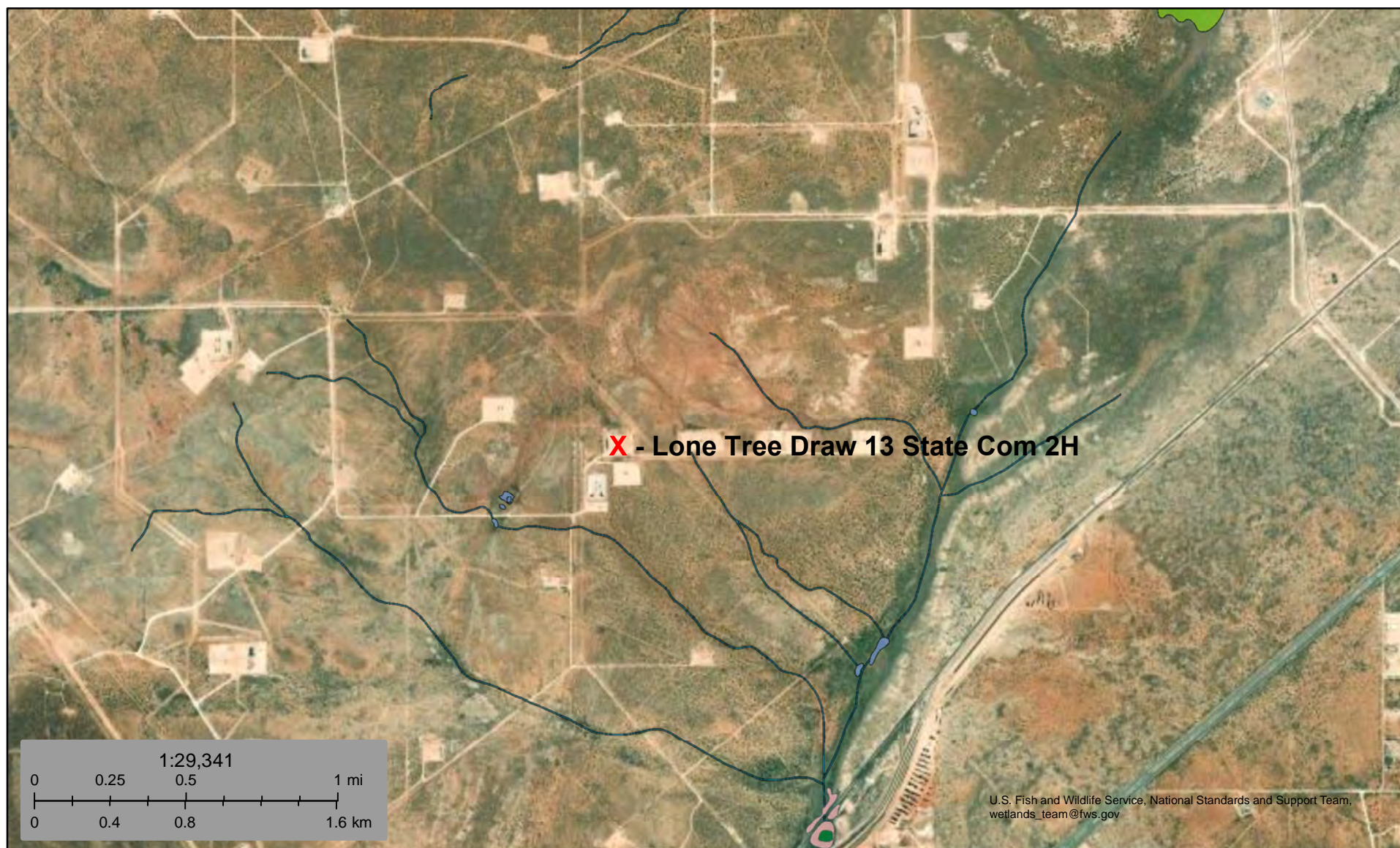
- 5.13 Miles
- Lake Avalon







## Wetlands Map



July 11, 2024

**Wetlands**

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



# National Flood Hazard Layer FIRMette



104°9'19"W 32°29'30"N



## Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 2/16/2021 at 11:47 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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



## Appendix B

- Soil Survey
- Soil Map
- Geologic Unit Map

Map Unit Description: Gypsum land-Reeves complex, 0 to 3 percent slopes, eroded---Eddy Area, New Mexico

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## Eddy Area, New Mexico

### GR—Gypsum land-Reeves complex, 0 to 3 percent slopes, eroded

#### Map Unit Setting

*National map unit symbol:* 1w4h

*Elevation:* 3,000 to 5,000 feet

*Mean annual precipitation:* 10 to 14 inches

*Mean annual air temperature:* 60 to 64 degrees F

*Frost-free period:* 190 to 220 days

*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Gypsum land:* 55 percent

*Reeves and similar soils:* 35 percent

*Minor components:* 10 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Gypsum Land

##### Setting

*Landform:* Hills, plains, ridges

*Landform position (two-dimensional):* Backslope, footslope, shoulder, toeslope

*Landform position (three-dimensional):* Crest, nose slope, side slope, head slope

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Residuum weathered from gypsum

##### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 8s

*Hydric soil rating:* No

#### Description of Reeves

##### Setting

*Landform:* Hills, plains, ridges

*Landform position (two-dimensional):* Backslope, footslope, shoulder, toeslope

*Landform position (three-dimensional):* Crest, nose slope, side slope, head slope

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Residuum weathered from gypsum

##### Typical profile

*H1 - 0 to 8 inches:* sandy loam

*H2 - 8 to 32 inches:* clay loam

Map Unit Description: Gypsum land-Reeves complex, 0 to 3 percent slopes, eroded---Eddy Area, New Mexico

---

*H3 - 32 to 60 inches: gypsiferous material*

**Properties and qualities**

*Slope: 0 to 1 percent*

*Depth to restrictive feature: More than 80 inches*

*Drainage class: Well drained*

*Runoff class: High*

*Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)*

*Depth to water table: More than 80 inches*

*Frequency of flooding: None*

*Frequency of ponding: None*

*Calcium carbonate, maximum content: 25 percent*

*Gypsum, maximum content: 80 percent*

*Maximum salinity: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)*

*Sodium adsorption ratio, maximum: 4.0*

*Available water capacity: Low (about 4.3 inches)*

**Interpretive groups**

*Land capability classification (irrigated): 3s*

*Land capability classification (nonirrigated): 7s*

*Hydrologic Soil Group: B*

*Ecological site: R042XC007NM - Loamy*

*Hydric soil rating: No*

**Minor Components**

**Unnamed soils**

*Percent of map unit: 10 percent*

*Hydric soil rating: No*

**Data Source Information**

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 16, Jun 8, 2020



Soil Map—Eddy Area, New Mexico



Natural Resources  
Conservation Service

Web Soil Survey  
National Cooperative Soil Survey

8/20/2024  
Page 1 of 3

## Soil Map—Eddy Area, New Mexico

## MAP LEGEND

## Area of Interest (AOI)

 Area of Interest (AOI)

## Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

## Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

## Water Features



Streams and Canals

## Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

## Background



Aerial Photography

## MAP INFORMATION

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

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

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

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

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

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

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

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 19, Sep 7, 2023

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

Date(s) aerial images were photographed: Nov 12, 2022—Dec 2, 2022

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

Soil Map—Eddy Area, New Mexico

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Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
GR	Gypsum land-Reeves complex, 0 to 3 percent slopes, eroded	6.9	100.0%
Totals for Area of Interest		6.9	100.0%



# Lone Tree Draw 13 State Com #2H

Devon Energy  
API #30-015-40372  
Eddy County, NM  
nAPP2104831006  
Geologic Unit Map

## Legend

- Alluvium
- Eolian deposits
- Piedmont alluvial deposits
- Salado Formation

Lone Tree Draw 13 State Com #2H

603



1 mi

Google Earth





## Appendix C

- 48-Hour Notification
- NMOCD Correspondence



Tom Pima Oil &lt;tom@pimaoil.com&gt;

**FW: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 371591**

1 message

**Woodall, Dale** <Dale.Woodall@dv.com>

Wed, Aug 7, 2024 at 6:10 PM

To: Tom Pima Oil &lt;tom@pimaoil.com&gt;, Gio PimaOil &lt;gio@pimaoil.com&gt;, Delrae Pima Oil &lt;delrae@pimaoil.com&gt;, Lynsey Pima Oil &lt;lynsey@pimaoil.com&gt;

Dale Woodall

**Environmental Professional****Hobbs, NM****Office:** 575-748-1838**Mobile:** 405-318-4697[Dale.Woodall@dv.com](mailto:Dale.Woodall@dv.com)**From:** [OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us) <[OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us)>**Sent:** Wednesday, August 7, 2024 5:08 PM**To:** Woodall, Dale <[Dale.Woodall@dv.com](mailto:Dale.Woodall@dv.com)>**Subject:** [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 371591

To whom it may concern (c/o Dale Woodall for DEVON ENERGY PRODUCTION COMPANY, LP),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2104831006.

The sampling event is expected to take place:

**When:** 08/09/2024 @ 17:07**Where:** D-13-21S-27E 0 FNL 0 FEL (32.487372,-104.149953)**Additional Information:** Andrew Franco (806) 200-0054**Additional Instructions:** From the intersection of Illinois Camp Road and Rains Road north of Carlsbad, NM, travel east on Rains Rd for 2.35 miles, turn southeast on lease road for 0.5 miles, curve east for 1 mile, curve south for 0.5 miles, curve east for 0.65 miles, curve north for 760 feet, curve east for 265 feet, turn north into location.

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

**New Mexico Energy, Minerals and Natural Resources Department**  
[1220 South St. Francis Drive](#)  
Santa Fe, NM 87505

Confidentiality Warning: This message and any attachments are intended only for the use of the intended recipient(s), are confidential, and may be privileged. If you are not the intended recipient, you are hereby notified that any review, retransmission, conversion to hard copy, copying, circulation or other use of all or any portion of this message and any attachments is strictly prohibited. If you are not the intended recipient, please notify the sender immediately by return e-mail, and delete this message and any attachments from your system.

OCD Permitting

Home    Operator Data    Action Status    Action Search Results    Action Status Item Details

[C-141] Release Corrective Action (C-141) Application

Submission Information

Submission ID:	158761	Districts:	Artesia
Operator:	[329999] Pima Environmental Services, LLC	Counties:	Eddy
Description:	Pima Environmental Services, LLC [329999] , LONE TREE 13 ST COM #2H , nAPP2104831006		
Status:	REJECTED		
Status Date:	02/09/2023		
References (2):	30-015-40372, nAPP2104831006		

Forms

Attachments:    [C-141](#)

[C-141](#)

[Scaled Site Map, Photographs, Lab Samples OR Liner Integrity, Remediation Activities](#)

Questions

This submission type does not have questions, at this time.

Comments

No comments found for this submission.

Conditions

No conditions found for this submission.

Reasons

Summary:

*hamlet* (2/9/2023), The Closure Report is denied. This release is in a high karst area and will need to be remediated to the strictest closure criteria of <50' depth to groundwater from Table 1 of the spill rule. Sidewall/floor samples need to comply with the strictest closure criteria limits of 600 mg/kg for Chlorides and 100 mg/kg TPH. TPH on soil sample locations SP-1 is 156 mg/kg, SP-3 is 181 mg/kg, SP-7 is 135 mg/kg, and SP-8 is 171 mg/kg. Please continue to excavate these soil sample locations until they meet closure criteria standards.

Go Back



## Appendix D

### ○ Photographic Documentation

Photographic Log

Devon Energy Production, LP  
Lone Tree Draw 13 State Com #2H



11/20/2023 Visual Assessment



Sign



North of pumps looking South



East of tanks looking North



East of pumps looking Southwest



East of pumps looking south



Photographic Log

Devon Energy Production, LP  
Lone Tree Draw 13 State Com #2H



Flag/mark north of pumps



Flag/mark north of pumps



Flag/mark west of panel



Flag/mark north of battery



Flag/mark west of panel



Flag/mark south of pumps



Photographic Log

Devon Energy Production, LP  
Lone Tree Draw 13 State Com #2H



Excavation aerial view



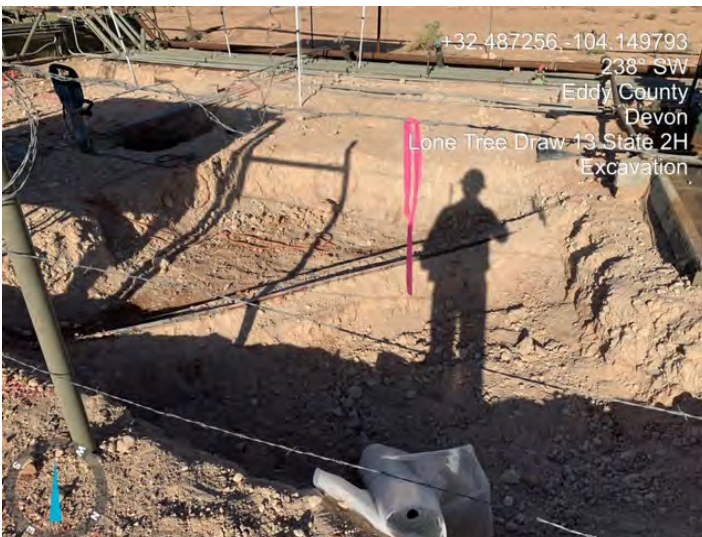
Begin excavation north of pumps



Excavation north of battery



Excavation north of pumps



Excavation south of pumps



Excavation north side of battery



Photographic Log

Devon Energy Production, LP  
Lone Tree Draw 13 State Com #2H



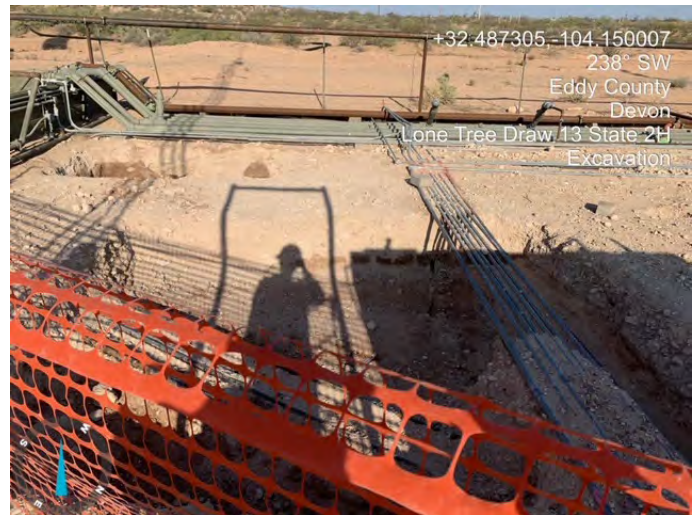
Excavation south of pumps



Excavation north of pumps



Excavation south of pumps



Excavation west of panel



Excavation north of battery



Excavation west of panel



Photographic Log

Devon Energy Production, LP  
Lone Tree Draw 13 State Com #2H



Excavation north of pumps



Excavation north of pumps



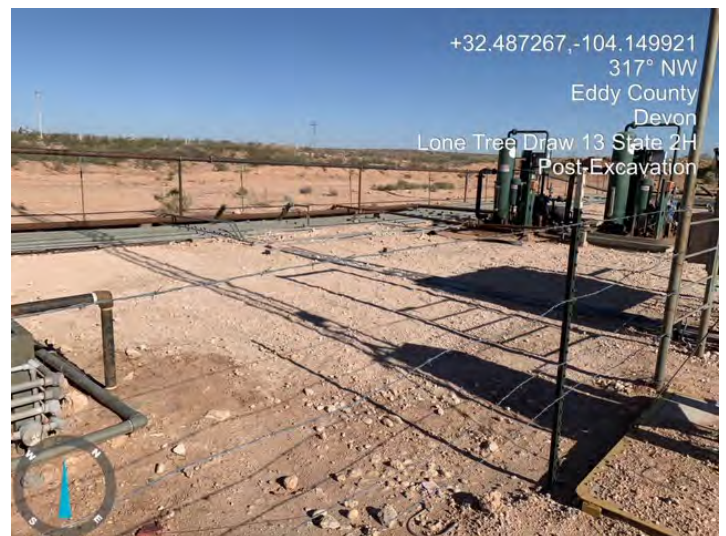
Excavation west of panel



Excavation aerial view



Excavation aerial view

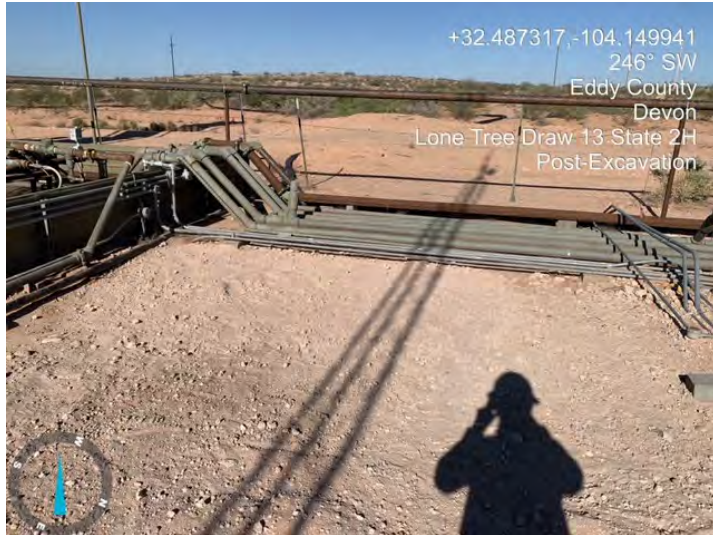


Backfill west of panel



Photographic Log

Devon Energy Production, LP  
Lone Tree Draw 13 State Com #2H



Backfill north of battery



Backfill south of pumps



Backfill north of pumps



Backfill north of pumps



Backfill north of battery





## Appendix E

### ○ Laboratory Reports



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [clients.hallenvironmental.com](http://clients.hallenvironmental.com)

October 28, 2021

Bob Allen  
Safety & Environmental Solutions  
PO Box 1613  
Hobbs, NM 88241  
TEL: (575) 397-0510  
FAX: (575) 393-4388

RE: Lone Tree Draw 13 St 2H

OrderNo.: 2110553

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 12 sample(s) on 10/12/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

## Analytical Report

Lab Order 2110553

Date Reported: 10/28/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: AH-14 1ft

Project: Lone Tree Draw 13 St 2H

Collection Date: 10/8/2021 12:25:00 PM

Lab ID: 2110553-001

Matrix: SOIL

Received Date: 10/12/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	ND	60		mg/Kg	20	10/25/2021 10:42:53 PM	63529
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	10/14/2021 11:32:27 PM	63271
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/14/2021 11:32:27 PM	63271
Surr: DNOP	137	70-130	S	%Rec	1	10/14/2021 11:32:27 PM	63271
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/16/2021 3:02:00 PM	63250
Surr: BFB	104	70-130		%Rec	1	10/16/2021 3:02:00 PM	63250
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.025		mg/Kg	1	10/16/2021 3:02:00 PM	63250
Toluene	ND	0.050		mg/Kg	1	10/16/2021 3:02:00 PM	63250
Ethylbenzene	ND	0.050		mg/Kg	1	10/16/2021 3:02:00 PM	63250
Xylenes, Total	ND	0.10		mg/Kg	1	10/16/2021 3:02:00 PM	63250
Surr: 4-Bromofluorobenzene	90.2	70-130		%Rec	1	10/16/2021 3:02:00 PM	63250

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 1 of 17

## Analytical Report

Lab Order 2110553

Date Reported: 10/28/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: AH-15 1ft

Project: Lone Tree Draw 13 St 2H

Collection Date: 10/8/2021 12:35:00 PM

Lab ID: 2110553-002

Matrix: SOIL

Received Date: 10/12/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	ND	60		mg/Kg	20	10/25/2021 11:44:57 PM	63529
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	10/14/2021 11:43:18 PM	63271
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/14/2021 11:43:18 PM	63271
Surr: DNOP	139	70-130	S	%Rec	1	10/14/2021 11:43:18 PM	63271
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/16/2021 3:22:00 PM	63250
Surr: BFB	102	70-130		%Rec	1	10/16/2021 3:22:00 PM	63250
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.024		mg/Kg	1	10/16/2021 3:22:00 PM	63250
Toluene	ND	0.048		mg/Kg	1	10/16/2021 3:22:00 PM	63250
Ethylbenzene	ND	0.048		mg/Kg	1	10/16/2021 3:22:00 PM	63250
Xylenes, Total	ND	0.097		mg/Kg	1	10/16/2021 3:22:00 PM	63250
Surr: 4-Bromofluorobenzene	89.8	70-130		%Rec	1	10/16/2021 3:22:00 PM	63250

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 2 of 17



## Analytical Report

Lab Order 2110553

Date Reported: 10/28/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: AH-16 1ft

Project: Lone Tree Draw 13 St 2H

Collection Date: 10/8/2021 12:45:00 PM

Lab ID: 2110553-003

Matrix: SOIL

Received Date: 10/12/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	ND	60		mg/Kg	20	10/26/2021 12:22:11 AM	63529
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	10/14/2021 7:03:33 PM	63272
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/14/2021 7:03:33 PM	63272
Surr: DNOP	120	70-130		%Rec	1	10/14/2021 7:03:33 PM	63272
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/16/2021 6:10:00 PM	63250
Surr: BFB	110	70-130		%Rec	1	10/16/2021 6:10:00 PM	63250
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	10/16/2021 6:10:00 PM	63250
Toluene	ND	0.050		mg/Kg	1	10/16/2021 6:10:00 PM	63250
Ethylbenzene	ND	0.050		mg/Kg	1	10/16/2021 6:10:00 PM	63250
Xylenes, Total	ND	0.10		mg/Kg	1	10/16/2021 6:10:00 PM	63250
Surr: 4-Bromofluorobenzene	94.3	70-130		%Rec	1	10/16/2021 6:10:00 PM	63250

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 3 of 17

## Analytical Report

Lab Order 2110553

Date Reported: 10/28/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: North Wall 1

Project: Lone Tree Draw 13 St 2H

Collection Date: 10/8/2021 1:15:00 PM

Lab ID: 2110553-004

Matrix: SOIL

Received Date: 10/12/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	ND	60		mg/Kg	20	10/26/2021 12:34:36 AM	63529
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	10/14/2021 7:35:32 PM	63272
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/14/2021 7:35:32 PM	63272
Surr: DNOP	99.0	70-130		%Rec	1	10/14/2021 7:35:32 PM	63272
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/16/2021 6:33:24 PM	63250
Surr: BFB	104	70-130		%Rec	1	10/16/2021 6:33:24 PM	63250
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	10/16/2021 6:33:24 PM	63250
Toluene	ND	0.050		mg/Kg	1	10/16/2021 6:33:24 PM	63250
Ethylbenzene	ND	0.050		mg/Kg	1	10/16/2021 6:33:24 PM	63250
Xylenes, Total	ND	0.10		mg/Kg	1	10/16/2021 6:33:24 PM	63250
Surr: 4-Bromofluorobenzene	88.1	70-130		%Rec	1	10/16/2021 6:33:24 PM	63250

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 4 of 17

## Analytical Report

Lab Order 2110553

Date Reported: 10/28/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: North Wall 2

Project: Lone Tree Draw 13 St 2H

Collection Date: 10/8/2021 1:25:00 PM

Lab ID: 2110553-005

Matrix: SOIL

Received Date: 10/12/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	ND	60		mg/Kg	20	10/26/2021 12:47:01 AM	63529
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/14/2021 7:46:13 PM	63272
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/14/2021 7:46:13 PM	63272
Surr: DNOP	126	70-130		%Rec	1	10/14/2021 7:46:13 PM	63272
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/16/2021 6:56:51 PM	63250
Surr: BFB	107	70-130		%Rec	1	10/16/2021 6:56:51 PM	63250
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	10/16/2021 6:56:51 PM	63250
Toluene	ND	0.048		mg/Kg	1	10/16/2021 6:56:51 PM	63250
Ethylbenzene	ND	0.048		mg/Kg	1	10/16/2021 6:56:51 PM	63250
Xylenes, Total	ND	0.096		mg/Kg	1	10/16/2021 6:56:51 PM	63250
Surr: 4-Bromofluorobenzene	91.1	70-130		%Rec	1	10/16/2021 6:56:51 PM	63250

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 5 of 17



## Analytical Report

Lab Order 2110553

Date Reported: 10/28/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: North Wall 3

Project: Lone Tree Draw 13 St 2H

Collection Date: 10/8/2021 1:35:00 PM

Lab ID: 2110553-006

Matrix: SOIL

Received Date: 10/12/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	ND	60		mg/Kg	20	10/26/2021 12:59:26 AM	63529
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/14/2021 7:56:53 PM	63272
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/14/2021 7:56:53 PM	63272
Surr: DNOP	100	70-130		%Rec	1	10/14/2021 7:56:53 PM	63272
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/16/2021 7:20:18 PM	63250
Surr: BFB	110	70-130		%Rec	1	10/16/2021 7:20:18 PM	63250
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	10/16/2021 7:20:18 PM	63250
Toluene	ND	0.049		mg/Kg	1	10/16/2021 7:20:18 PM	63250
Ethylbenzene	ND	0.049		mg/Kg	1	10/16/2021 7:20:18 PM	63250
Xylenes, Total	ND	0.098		mg/Kg	1	10/16/2021 7:20:18 PM	63250
Surr: 4-Bromofluorobenzene	94.6	70-130		%Rec	1	10/16/2021 7:20:18 PM	63250

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 6 of 17

## Analytical Report

Lab Order 2110553

Date Reported: 10/28/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: East Wall 1

Project: Lone Tree Draw 13 St 2H

Collection Date: 10/8/2021 1:50:00 PM

Lab ID: 2110553-007

Matrix: SOIL

Received Date: 10/12/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	ND	60		mg/Kg	20	10/26/2021 1:11:51 AM	63529
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/14/2021 8:07:34 PM	63272
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/14/2021 8:07:34 PM	63272
Surr: DNOP	111	70-130		%Rec	1	10/14/2021 8:07:34 PM	63272
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/16/2021 7:43:45 PM	63250
Surr: BFB	104	70-130		%Rec	1	10/16/2021 7:43:45 PM	63250
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	10/16/2021 7:43:45 PM	63250
Toluene	ND	0.048		mg/Kg	1	10/16/2021 7:43:45 PM	63250
Ethylbenzene	ND	0.048		mg/Kg	1	10/16/2021 7:43:45 PM	63250
Xylenes, Total	ND	0.096		mg/Kg	1	10/16/2021 7:43:45 PM	63250
Surr: 4-Bromofluorobenzene	88.3	70-130		%Rec	1	10/16/2021 7:43:45 PM	63250

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 7 of 17

## Analytical Report

Lab Order 2110553

Date Reported: 10/28/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: East Wall 2

Project: Lone Tree Draw 13 St 2H

Collection Date: 10/8/2021 2:10:00 PM

Lab ID: 2110553-008

Matrix: SOIL

Received Date: 10/12/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	ND	59		mg/Kg	20	10/26/2021 1:49:05 AM	63529
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/14/2021 8:18:15 PM	63272
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/14/2021 8:18:15 PM	63272
Surr: DNOP	101	70-130		%Rec	1	10/14/2021 8:18:15 PM	63272
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/16/2021 8:07:11 PM	63250
Surr: BFB	107	70-130		%Rec	1	10/16/2021 8:07:11 PM	63250
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	10/16/2021 8:07:11 PM	63250
Toluene	ND	0.049		mg/Kg	1	10/16/2021 8:07:11 PM	63250
Ethylbenzene	ND	0.049		mg/Kg	1	10/16/2021 8:07:11 PM	63250
Xylenes, Total	ND	0.098		mg/Kg	1	10/16/2021 8:07:11 PM	63250
Surr: 4-Bromofluorobenzene	91.1	70-130		%Rec	1	10/16/2021 8:07:11 PM	63250

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 8 of 17



## Analytical Report

Lab Order 2110553

Date Reported: 10/28/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: South Wall 1

Project: Lone Tree Draw 13 St 2H

Collection Date: 10/8/2021 2:25:00 PM

Lab ID: 2110553-009

Matrix: SOIL

Received Date: 10/12/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	200	61		mg/Kg	20	10/26/2021 2:01:30 AM	63529
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/14/2021 8:28:59 PM	63272
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/14/2021 8:28:59 PM	63272
Surr: DNOP	118	70-130		%Rec	1	10/14/2021 8:28:59 PM	63272
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/18/2021 5:10:00 PM	63250
Surr: BFB	104	70-130		%Rec	1	10/18/2021 5:10:00 PM	63250
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.025		mg/Kg	1	10/18/2021 5:10:00 PM	63250
Toluene	ND	0.050		mg/Kg	1	10/18/2021 5:10:00 PM	63250
Ethylbenzene	ND	0.050		mg/Kg	1	10/18/2021 5:10:00 PM	63250
Xylenes, Total	ND	0.10		mg/Kg	1	10/18/2021 5:10:00 PM	63250
Surr: 4-Bromofluorobenzene	85.2	70-130		%Rec	1	10/18/2021 5:10:00 PM	63250

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 9 of 17

## Analytical Report

Lab Order 2110553

Date Reported: 10/28/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: South Wall 2

Project: Lone Tree Draw 13 St 2H

Collection Date: 10/8/2021 2:35:00 PM

Lab ID: 2110553-010

Matrix: SOIL

Received Date: 10/12/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	ND	60		mg/Kg	20	10/26/2021 2:13:54 AM	63529
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	35	9.4		mg/Kg	1	10/15/2021 12:18:53 PM	63272
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/15/2021 12:18:53 PM	63272
Surr: DNOP	110	70-130		%Rec	1	10/15/2021 12:18:53 PM	63272
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/18/2021 5:30:00 PM	63250
Surr: BFB	99.7	70-130		%Rec	1	10/18/2021 5:30:00 PM	63250
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.025		mg/Kg	1	10/18/2021 5:30:00 PM	63250
Toluene	ND	0.050		mg/Kg	1	10/18/2021 5:30:00 PM	63250
Ethylbenzene	ND	0.050		mg/Kg	1	10/18/2021 5:30:00 PM	63250
Xylenes, Total	ND	0.099		mg/Kg	1	10/18/2021 5:30:00 PM	63250
Surr: 4-Bromofluorobenzene	84.1	70-130		%Rec	1	10/18/2021 5:30:00 PM	63250

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 10 of 17

## Analytical Report

Lab Order 2110553

Date Reported: 10/28/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: West Wall 1

Project: Lone Tree Draw 13 St 2H

Collection Date: 10/8/2021 2:45:00 PM

Lab ID: 2110553-011

Matrix: SOIL

Received Date: 10/12/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	220	60		mg/Kg	20	10/26/2021 12:18:49 AM	63535
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/14/2021 8:50:23 PM	63272
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/14/2021 8:50:23 PM	63272
Surr: DNOP	124	70-130		%Rec	1	10/14/2021 8:50:23 PM	63272
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/19/2021 5:55:00 AM	63259
Surr: BFB	106	70-130		%Rec	1	10/19/2021 5:55:00 AM	63259
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	10/19/2021 5:55:00 AM	63259
Toluene	ND	0.047		mg/Kg	1	10/19/2021 5:55:00 AM	63259
Ethylbenzene	ND	0.047		mg/Kg	1	10/19/2021 5:55:00 AM	63259
Xylenes, Total	ND	0.095		mg/Kg	1	10/19/2021 5:55:00 AM	63259
Surr: 4-Bromofluorobenzene	91.5	70-130		%Rec	1	10/19/2021 5:55:00 AM	63259

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 11 of 17



## Analytical Report

Lab Order 2110553

Date Reported: 10/28/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: West Wall 2

Project: Lone Tree Draw 13 St 2H

Collection Date: 10/8/2021 3:10:00 PM

Lab ID: 2110553-012

Matrix: SOIL

Received Date: 10/12/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	85	60		mg/Kg	20	10/26/2021 12:55:51 AM	63535
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/14/2021 9:01:07 PM	63272
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/14/2021 9:01:07 PM	63272
Surr: DNOP	110	70-130		%Rec	1	10/14/2021 9:01:07 PM	63272
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/19/2021 6:14:00 AM	63259
Surr: BFB	109	70-130		%Rec	1	10/19/2021 6:14:00 AM	63259
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	10/19/2021 6:14:00 AM	63259
Toluene	ND	0.050		mg/Kg	1	10/19/2021 6:14:00 AM	63259
Ethylbenzene	ND	0.050		mg/Kg	1	10/19/2021 6:14:00 AM	63259
Xylenes, Total	ND	0.10		mg/Kg	1	10/19/2021 6:14:00 AM	63259
Surr: 4-Bromofluorobenzene	91.9	70-130		%Rec	1	10/19/2021 6:14:00 AM	63259

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 12 of 17

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2110553

28-Oct-21

**Client:** Safety & Environmental Solutions**Project:** Lone Tree Draw 13 St 2H

Sample ID: <b>MB-63535</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>63535</b>	RunNo: <b>82341</b>								
Prep Date: <b>10/25/2021</b>	Analysis Date: <b>10/25/2021</b>	SeqNo: <b>2920167</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-63535</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>63535</b>	RunNo: <b>82341</b>								
Prep Date: <b>10/25/2021</b>	Analysis Date: <b>10/26/2021</b>	SeqNo: <b>2920168</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.7	90	110			

Sample ID: <b>MB-63529</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>63529</b>	RunNo: <b>82344</b>								
Prep Date: <b>10/25/2021</b>	Analysis Date: <b>10/25/2021</b>	SeqNo: <b>2920280</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-63529</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>63529</b>	RunNo: <b>82344</b>								
Prep Date: <b>10/25/2021</b>	Analysis Date: <b>10/25/2021</b>	SeqNo: <b>2920281</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.0	90	110			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

Page 13 of 17

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2110553

28-Oct-21

**Client:** Safety & Environmental Solutions**Project:** Lone Tree Draw 13 St 2H

Sample ID: <b>MB-63271</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>63271</b>	RunNo: <b>82009</b>								
Prep Date: <b>10/13/2021</b>	Analysis Date: <b>10/14/2021</b>	SeqNo: <b>2906719</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		105	70	130			

Sample ID: <b>MB-63272</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>63272</b>	RunNo: <b>82009</b>								
Prep Date: <b>10/13/2021</b>	Analysis Date: <b>10/14/2021</b>	SeqNo: <b>2906722</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		100	70	130			

Sample ID: <b>LCS-63272</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>63272</b>	RunNo: <b>82083</b>								
Prep Date: <b>10/13/2021</b>	Analysis Date: <b>10/15/2021</b>	SeqNo: <b>2907357</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	93.0	68.9	135			
Surr: DNOP	4.9		5.000		98.9	70	130			

Sample ID: <b>2110553-003AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>AH-16 1ft</b>	Batch ID: <b>63272</b>	RunNo: <b>82083</b>								
Prep Date: <b>10/13/2021</b>	Analysis Date: <b>10/15/2021</b>	SeqNo: <b>2907738</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	49.95	0	102	39.3	155			
Surr: DNOP	5.9		4.995		119	70	130			

Sample ID: <b>2110553-003AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>AH-16 1ft</b>	Batch ID: <b>63272</b>	RunNo: <b>82083</b>								
Prep Date: <b>10/13/2021</b>	Analysis Date: <b>10/15/2021</b>	SeqNo: <b>2907739</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	57	9.6	48.08	0	119	39.3	155	12.5	23.4	
Surr: DNOP	6.3		4.808		131	70	130	0	0	S

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

Page 14 of 17



QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2110553

28-Oct-21

Client: Safety & Environmental Solutions

Project: Lone Tree Draw 13 St 2H

Sample ID: <b>LCS-63271</b>		SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>					
Client ID: <b>LCSS</b>		Batch ID: <b>63271</b>			RunNo: <b>82083</b>					
Prep Date: <b>10/13/2021</b>		Analysis Date: <b>10/15/2021</b>			SeqNo: <b>2907748</b>		Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	59	10	50.00	0	118	68.9	135			
Surr: DNOP	6.0		5.000		120	70	130			

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2110553

28-Oct-21

**Client:** Safety & Environmental Solutions**Project:** Lone Tree Draw 13 St 2H

Sample ID: <b>mb-63250</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>63250</b>	RunNo: <b>82109</b>								
Prep Date: <b>10/12/2021</b>	Analysis Date: <b>10/16/2021</b>	SeqNo: <b>2908482</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		103	70	130			

Sample ID: <b>lcs-63250</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>63250</b>	RunNo: <b>82109</b>								
Prep Date: <b>10/12/2021</b>	Analysis Date: <b>10/16/2021</b>	SeqNo: <b>2908485</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	110	78.6	131			
Surr: BFB	1200		1000		119	70	130			

Sample ID: <b>mb-63259</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>63259</b>	RunNo: <b>82140</b>								
Prep Date: <b>10/13/2021</b>	Analysis Date: <b>10/19/2021</b>	SeqNo: <b>2910076</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		104	70	130			

Sample ID: <b>lcs-63259</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>63259</b>	RunNo: <b>82140</b>								
Prep Date: <b>10/13/2021</b>	Analysis Date: <b>10/19/2021</b>	SeqNo: <b>2910082</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	100	78.6	131			
Surr: BFB	1100		1000		114	70	130			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

Page 16 of 17

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2110553

28-Oct-21

Client: Safety &amp; Environmental Solutions

Project: Lone Tree Draw 13 St 2H

Sample ID: <b>mb-63250</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>63250</b>	RunNo: <b>82109</b>								
Prep Date: <b>10/12/2021</b>	Analysis Date: <b>10/16/2021</b>	SeqNo: <b>2908554</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.88		1.000		87.5	70	130			

Sample ID: <b>lcs-63250</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>63250</b>	RunNo: <b>82109</b>								
Prep Date: <b>10/12/2021</b>	Analysis Date: <b>10/16/2021</b>	SeqNo: <b>2908557</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	88.4	80	120			
Toluene	0.92	0.050	1.000	0	91.9	80	120			
Ethylbenzene	0.91	0.050	1.000	0	91.5	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.9	80	120			
Surr: 4-Bromofluorobenzene	0.85		1.000		85.0	70	130			

Sample ID: <b>mb-63259</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>63259</b>	RunNo: <b>82140</b>								
Prep Date: <b>10/13/2021</b>	Analysis Date: <b>10/19/2021</b>	SeqNo: <b>2910131</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.85		1.000		85.2	70	130			

Sample ID: <b>lcs-63259</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>63259</b>	RunNo: <b>82140</b>								
Prep Date: <b>10/13/2021</b>	Analysis Date: <b>10/19/2021</b>	SeqNo: <b>2910134</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.1	80	120			
Toluene	0.90	0.050	1.000	0	90.2	80	120			
Ethylbenzene	0.92	0.050	1.000	0	92.5	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.8	80	120			
Surr: 4-Bromofluorobenzene	0.94		1.000		94.1	70	130			

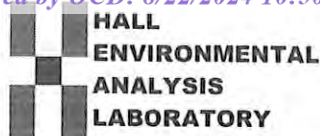
### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

Page 17 of 17





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: clients.hallenvironmental.com

## Sample Log-In Check List

Client Name: Safety & Environmental Solutions

Work Order Number: 2110553

RcptNo: 1

Received By: Cheyenne Cason 10/12/2021 7:30:00 AM

Completed By: Sean Livingston 10/12/2021 8:28:17 AM

Reviewed By: KRG 10/12/21

*Chad*

*Sean Livingston*

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace  $<1/4$ " for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved  
bottles checked  
for pH:

( $<2$  or  $>12$  unless noted)

Adjusted?

Checked by: *JA 10/12/21*

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: \_\_\_\_\_

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

By Whom: \_\_\_\_\_

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: \_\_\_\_\_

Client Instructions: \_\_\_\_\_

16. Additional remarks:

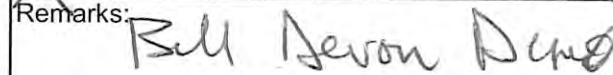
17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.9	Good				

Released to Imaging: 9/16/2024 2:24:29 PM

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my carrier 10/12/14 0730



If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: clients.hallenvironmental.com

October 21, 2021

Bob Allen  
Safety & Environmental Solutions  
PO Box 1613  
Hobbs, NM 88241  
TEL: (575) 397-0510  
FAX (575) 393-4388

RE: Lone Tree Draw 13 State 2H

OrderNo.: 2110554

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 13 sample(s) on 10/12/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

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

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109



## Analytical Report

Lab Order 2110554

Date Reported: 10/21/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: SP-1 2ft

Project: Lone Tree Draw 13 State 2H

Collection Date: 10/8/2021 8:20:00 AM

Lab ID: 2110554-001

Matrix: SOIL

Received Date: 10/12/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	430	60		mg/Kg	20	10/18/2021 7:40:50 PM	63351
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	56	10		mg/Kg	1	10/14/2021 1:33:31 AM	63247
Motor Oil Range Organics (MRO)	100	50		mg/Kg	1	10/14/2021 1:33:31 AM	63247
Surr: DNOP	88.4	70-130		%Rec	1	10/14/2021 1:33:31 AM	63247
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/16/2021 1:31:29 AM	63240
Surr: BFB	104	70-130		%Rec	1	10/16/2021 1:31:29 AM	63240
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	10/16/2021 1:31:29 AM	63240
Toluene	ND	0.049		mg/Kg	1	10/16/2021 1:31:29 AM	63240
Ethylbenzene	ND	0.049		mg/Kg	1	10/16/2021 1:31:29 AM	63240
Xylenes, Total	ND	0.098		mg/Kg	1	10/16/2021 1:31:29 AM	63240
Surr: 4-Bromofluorobenzene	89.7	70-130		%Rec	1	10/16/2021 1:31:29 AM	63240

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 1 of 19

## Analytical Report

Lab Order 2110554

Date Reported: 10/21/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: SP-2 1ft

Project: Lone Tree Draw 13 State 2H

Collection Date: 10/8/2021 8:35:00 AM

Lab ID: 2110554-002

Matrix: SOIL

Received Date: 10/12/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	190	59		mg/Kg	20	10/18/2021 8:18:04 PM	63351
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	10/14/2021 1:44:11 AM	63247
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/14/2021 1:44:11 AM	63247
Surr: DNOP	91.1	70-130		%Rec	1	10/14/2021 1:44:11 AM	63247
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/16/2021 1:54:39 AM	63240
Surr: BFB	104	70-130		%Rec	1	10/16/2021 1:54:39 AM	63240
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	10/16/2021 1:54:39 AM	63240
Toluene	ND	0.047		mg/Kg	1	10/16/2021 1:54:39 AM	63240
Ethylbenzene	ND	0.047		mg/Kg	1	10/16/2021 1:54:39 AM	63240
Xylenes, Total	ND	0.094		mg/Kg	1	10/16/2021 1:54:39 AM	63240
Surr: 4-Bromofluorobenzene	90.0	70-130		%Rec	1	10/16/2021 1:54:39 AM	63240

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 2 of 19

## Analytical Report

Lab Order 2110554

Date Reported: 10/21/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: SP-3 1ft

Project: Lone Tree Draw 13 State 2H

Collection Date: 10/8/2021 9:15:00 AM

Lab ID: 2110554-003

Matrix: SOIL

Received Date: 10/12/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	120	59		mg/Kg	20	10/18/2021 8:30:29 PM	63351
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	100	9.3		mg/Kg	1	10/14/2021 1:54:53 AM	63247
Motor Oil Range Organics (MRO)	81	47		mg/Kg	1	10/14/2021 1:54:53 AM	63247
Surr: DNOP	94.0	70-130		%Rec	1	10/14/2021 1:54:53 AM	63247
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/16/2021 2:17:50 AM	63240
Surr: BFB	106	70-130		%Rec	1	10/16/2021 2:17:50 AM	63240
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	10/16/2021 2:17:50 AM	63240
Toluene	ND	0.050		mg/Kg	1	10/16/2021 2:17:50 AM	63240
Ethylbenzene	ND	0.050		mg/Kg	1	10/16/2021 2:17:50 AM	63240
Xylenes, Total	ND	0.099		mg/Kg	1	10/16/2021 2:17:50 AM	63240
Surr: 4-Bromofluorobenzene	89.2	70-130		%Rec	1	10/16/2021 2:17:50 AM	63240

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 3 of 19



## Analytical Report

Lab Order 2110554

Date Reported: 10/21/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: SP-4 1ft

Project: Lone Tree Draw 13 State 2H

Collection Date: 10/8/2021 9:45:00 AM

Lab ID: 2110554-004

Matrix: SOIL

Received Date: 10/12/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	84	60		mg/Kg	20	10/18/2021 8:42:54 PM	63351
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/14/2021 9:11:49 PM	63272
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/14/2021 9:11:49 PM	63272
Surr: DNOP	102	70-130		%Rec	1	10/14/2021 9:11:49 PM	63272
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/16/2021 9:47:00 AM	63250
Surr: BFB	105	70-130		%Rec	1	10/16/2021 9:47:00 AM	63250
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.024		mg/Kg	1	10/16/2021 9:47:00 AM	63250
Toluene	ND	0.048		mg/Kg	1	10/16/2021 9:47:00 AM	63250
Ethylbenzene	ND	0.048		mg/Kg	1	10/16/2021 9:47:00 AM	63250
Xylenes, Total	ND	0.096		mg/Kg	1	10/16/2021 9:47:00 AM	63250
Surr: 4-Bromofluorobenzene	88.6	70-130		%Rec	1	10/16/2021 9:47:00 AM	63250

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 4 of 19

## Analytical Report

Lab Order 2110554

Date Reported: 10/21/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: SP-5 1ft

Project: Lone Tree Draw 13 State 2H

Collection Date: 10/8/2021 10:15:00 AM

Lab ID: 2110554-005

Matrix: SOIL

Received Date: 10/12/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	10/18/2021 8:55:18 PM	63351
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	10/14/2021 9:22:33 PM	63272
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/14/2021 9:22:33 PM	63272
Surr: DNOP	105	70-130		%Rec	1	10/14/2021 9:22:33 PM	63272
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/16/2021 10:46:00 AM	63250
Surr: BFB	109	70-130		%Rec	1	10/16/2021 10:46:00 AM	63250
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.025		mg/Kg	1	10/16/2021 10:46:00 AM	63250
Toluene	ND	0.050		mg/Kg	1	10/16/2021 10:46:00 AM	63250
Ethylbenzene	ND	0.050		mg/Kg	1	10/16/2021 10:46:00 AM	63250
Xylenes, Total	ND	0.099		mg/Kg	1	10/16/2021 10:46:00 AM	63250
Surr: 4-Bromofluorobenzene	96.2	70-130		%Rec	1	10/16/2021 10:46:00 AM	63250

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 5 of 19

## Analytical Report

Lab Order 2110554

Date Reported: 10/21/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: SP-6 1ft

Project: Lone Tree Draw 13 State 2H

Collection Date: 10/8/2021 10:30:00 AM

Lab ID: 2110554-006

Matrix: SOIL

Received Date: 10/12/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	83	60		mg/Kg	20	10/18/2021 9:07:42 PM	63351
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	10/14/2021 9:33:18 PM	63272
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/14/2021 9:33:18 PM	63272
Surr: DNOP	108	70-130		%Rec	1	10/14/2021 9:33:18 PM	63272
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/16/2021 12:24:00 PM	63250
Surr: BFB	112	70-130		%Rec	1	10/16/2021 12:24:00 PM	63250
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.024		mg/Kg	1	10/16/2021 12:24:00 PM	63250
Toluene	ND	0.048		mg/Kg	1	10/16/2021 12:24:00 PM	63250
Ethylbenzene	ND	0.048		mg/Kg	1	10/16/2021 12:24:00 PM	63250
Xylenes, Total	ND	0.096		mg/Kg	1	10/16/2021 12:24:00 PM	63250
Surr: 4-Bromofluorobenzene	94.8	70-130		%Rec	1	10/16/2021 12:24:00 PM	63250

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 6 of 19



## Analytical Report

Lab Order 2110554

Date Reported: 10/21/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: SP-7 1ft

Project: Lone Tree Draw 13 State 2H

Collection Date: 10/8/2021 10:45:00 AM

Lab ID: 2110554-007

Matrix: SOIL

Received Date: 10/12/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	10/18/2021 10:11:55 PM	63373
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	81	9.7		mg/Kg	1	10/18/2021 12:56:31 PM	63272
Motor Oil Range Organics (MRO)	54	48		mg/Kg	1	10/18/2021 12:56:31 PM	63272
Surr: DNOP	123	70-130		%Rec	1	10/18/2021 12:56:31 PM	63272
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/16/2021 12:44:00 PM	63250
Surr: BFB	115	70-130		%Rec	1	10/16/2021 12:44:00 PM	63250
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: mb
Benzene	ND	0.023		mg/Kg	1	10/16/2021 12:44:00 PM	63250
Toluene	ND	0.046		mg/Kg	1	10/16/2021 12:44:00 PM	63250
Ethylbenzene	ND	0.046		mg/Kg	1	10/16/2021 12:44:00 PM	63250
Xylenes, Total	ND	0.091		mg/Kg	1	10/16/2021 12:44:00 PM	63250
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	10/16/2021 12:44:00 PM	63250

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2110554

Date Reported: 10/21/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: SP-8 1ft

Project: Lone Tree Draw 13 State 2H

Collection Date: 10/8/2021 11:05:00 AM

Lab ID: 2110554-008

Matrix: SOIL

Received Date: 10/12/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	450	60		mg/Kg	20	10/18/2021 10:24:17 PM	63373
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	61	9.6		mg/Kg	1	10/15/2021 12:40:10 PM	63272
Motor Oil Range Organics (MRO)	110	48		mg/Kg	1	10/15/2021 12:40:10 PM	63272
Surr: DNOP	99.3	70-130		%Rec	1	10/15/2021 12:40:10 PM	63272
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/16/2021 1:04:00 PM	63250
Surr: BFB	109	70-130		%Rec	1	10/16/2021 1:04:00 PM	63250
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	10/16/2021 1:04:00 PM	63250
Toluene	ND	0.048		mg/Kg	1	10/16/2021 1:04:00 PM	63250
Ethylbenzene	ND	0.048		mg/Kg	1	10/16/2021 1:04:00 PM	63250
Xylenes, Total	ND	0.096		mg/Kg	1	10/16/2021 1:04:00 PM	63250
Surr: 4-Bromofluorobenzene	95.4	70-130		%Rec	1	10/16/2021 1:04:00 PM	63250

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2110554

Date Reported: 10/21/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: SP-9 1ft

Project: Lone Tree Draw 13 State 2H

Collection Date: 10/8/2021 11:15:00 AM

Lab ID: 2110554-009

Matrix: SOIL

Received Date: 10/12/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	85	60		mg/Kg	20	10/18/2021 10:36:39 PM	63373
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/14/2021 10:05:34 PM	63272
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/14/2021 10:05:34 PM	63272
Surr: DNOP	124	70-130		%Rec	1	10/14/2021 10:05:34 PM	63272
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/16/2021 1:23:00 PM	63250
Surr: BFB	112	70-130		%Rec	1	10/16/2021 1:23:00 PM	63250
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	10/16/2021 1:23:00 PM	63250
Toluene	ND	0.048		mg/Kg	1	10/16/2021 1:23:00 PM	63250
Ethylbenzene	ND	0.048		mg/Kg	1	10/16/2021 1:23:00 PM	63250
Xylenes, Total	ND	0.096		mg/Kg	1	10/16/2021 1:23:00 PM	63250
Surr: 4-Bromofluorobenzene	89.4	70-130		%Rec	1	10/16/2021 1:23:00 PM	63250

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 9 of 19



## Analytical Report

Lab Order 2110554

Date Reported: 10/21/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: SP-10 1ft

Project: Lone Tree Draw 13 State 2H

Collection Date: 10/8/2021 11:25:00 AM

Lab ID: 2110554-010

Matrix: SOIL

Received Date: 10/12/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	86	60		mg/Kg	20	10/18/2021 10:49:00 PM	63373
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	10/14/2021 10:16:20 PM	63272
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/14/2021 10:16:20 PM	63272
Surr: DNOP	113	70-130		%Rec	1	10/14/2021 10:16:20 PM	63272
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/16/2021 1:43:00 PM	63250
Surr: BFB	107	70-130		%Rec	1	10/16/2021 1:43:00 PM	63250
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	10/16/2021 1:43:00 PM	63250
Toluene	ND	0.049		mg/Kg	1	10/16/2021 1:43:00 PM	63250
Ethylbenzene	ND	0.049		mg/Kg	1	10/16/2021 1:43:00 PM	63250
Xylenes, Total	ND	0.097		mg/Kg	1	10/16/2021 1:43:00 PM	63250
Surr: 4-Bromofluorobenzene	87.4	70-130		%Rec	1	10/16/2021 1:43:00 PM	63250

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 10 of 19

## Analytical Report

Lab Order 2110554

Date Reported: 10/21/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: SP-11 1ft

Project: Lone Tree Draw 13 State 2H

Collection Date: 10/8/2021 11:40:00 AM

Lab ID: 2110554-011

Matrix: SOIL

Received Date: 10/12/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	10/18/2021 11:26:02 PM	63373
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	10/14/2021 10:27:07 PM	63272
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/14/2021 10:27:07 PM	63272
Surr: DNOP	106	70-130		%Rec	1	10/14/2021 10:27:07 PM	63272
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/16/2021 2:03:00 PM	63250
Surr: BFB	104	70-130		%Rec	1	10/16/2021 2:03:00 PM	63250
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	10/16/2021 2:03:00 PM	63250
Toluene	ND	0.048		mg/Kg	1	10/16/2021 2:03:00 PM	63250
Ethylbenzene	ND	0.048		mg/Kg	1	10/16/2021 2:03:00 PM	63250
Xylenes, Total	ND	0.096		mg/Kg	1	10/16/2021 2:03:00 PM	63250
Surr: 4-Bromofluorobenzene	89.6	70-130		%Rec	1	10/16/2021 2:03:00 PM	63250

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 11 of 19

## Analytical Report

Lab Order 2110554

Date Reported: 10/21/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: SP-12 1ft

Project: Lone Tree Draw 13 State 2H

Collection Date: 10/8/2021 11:55:00 AM

Lab ID: 2110554-012

Matrix: SOIL

Received Date: 10/12/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	10/18/2021 11:38:23 PM	63373
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/14/2021 10:37:55 PM	63272
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/14/2021 10:37:55 PM	63272
Surr: DNOP	131	70-130	S	%Rec	1	10/14/2021 10:37:55 PM	63272
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/16/2021 2:23:00 PM	63250
Surr: BFB	111	70-130		%Rec	1	10/16/2021 2:23:00 PM	63250
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: mb
Benzene	ND	0.023		mg/Kg	1	10/16/2021 2:23:00 PM	63250
Toluene	ND	0.047		mg/Kg	1	10/16/2021 2:23:00 PM	63250
Ethylbenzene	ND	0.047		mg/Kg	1	10/16/2021 2:23:00 PM	63250
Xylenes, Total	ND	0.094		mg/Kg	1	10/16/2021 2:23:00 PM	63250
Surr: 4-Bromofluorobenzene	91.6	70-130		%Rec	1	10/16/2021 2:23:00 PM	63250

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 12 of 19



## Analytical Report

Lab Order 2110554

Date Reported: 10/21/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: SP-13 1ft

Project: Lone Tree Draw 13 State 2H

Collection Date: 10/8/2021 12:10:00 PM

Lab ID: 2110554-013

Matrix: SOIL

Received Date: 10/12/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	59		mg/Kg	20	10/18/2021 11:50:44 PM	63373
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/14/2021 10:48:52 PM	63272
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/14/2021 10:48:52 PM	63272
Surr: DNOP	110	70-130		%Rec	1	10/14/2021 10:48:52 PM	63272
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/16/2021 2:42:00 PM	63250
Surr: BFB	105	70-130		%Rec	1	10/16/2021 2:42:00 PM	63250
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	10/16/2021 2:42:00 PM	63250
Toluene	ND	0.049		mg/Kg	1	10/16/2021 2:42:00 PM	63250
Ethylbenzene	ND	0.049		mg/Kg	1	10/16/2021 2:42:00 PM	63250
Xylenes, Total	ND	0.098		mg/Kg	1	10/16/2021 2:42:00 PM	63250
Surr: 4-Bromofluorobenzene	91.7	70-130		%Rec	1	10/16/2021 2:42:00 PM	63250

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 13 of 19

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2110554

21-Oct-21

**Client:** Safety & Environmental Solutions**Project:** Lone Tree Draw 13 State 2H

Sample ID: <b>MB-63351</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>63351</b>	RunNo: <b>82117</b>								
Prep Date: <b>10/18/2021</b>	Analysis Date: <b>10/18/2021</b>	SeqNo: <b>2909845</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-63351</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>63351</b>	RunNo: <b>82117</b>								
Prep Date: <b>10/18/2021</b>	Analysis Date: <b>10/18/2021</b>	SeqNo: <b>2909846</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.8	90	110			

Sample ID: <b>MB-63373</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>63373</b>	RunNo: <b>82151</b>								
Prep Date: <b>10/18/2021</b>	Analysis Date: <b>10/18/2021</b>	SeqNo: <b>2910803</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-63373</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>63373</b>	RunNo: <b>82151</b>								
Prep Date: <b>10/18/2021</b>	Analysis Date: <b>10/18/2021</b>	SeqNo: <b>2910804</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.9	90	110			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

Page 14 of 19

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2110554

21-Oct-21

**Client:** Safety & Environmental Solutions**Project:** Lone Tree Draw 13 State 2H

Sample ID: <b>LCS-63247</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>63247</b>			RunNo: <b>82009</b>						
Prep Date: <b>10/12/2021</b>	Analysis Date: <b>10/13/2021</b>			SeqNo: <b>2905143</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	89.5	68.9	135			
Surr: DNOP	4.7		5.000		94.7	70	130			

Sample ID: <b>MB-63247</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>PBS</b>	Batch ID: <b>63247</b>			RunNo: <b>82009</b>						
Prep Date: <b>10/12/2021</b>	Analysis Date: <b>10/13/2021</b>			SeqNo: <b>2905147</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.6		10.00		85.7	70	130			

Sample ID: <b>MB-63272</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>PBS</b>	Batch ID: <b>63272</b>			RunNo: <b>82009</b>						
Prep Date: <b>10/13/2021</b>	Analysis Date: <b>10/14/2021</b>			SeqNo: <b>2906722</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		100	70	130			

Sample ID: <b>LCS-63272</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>63272</b>			RunNo: <b>82083</b>						
Prep Date: <b>10/13/2021</b>	Analysis Date: <b>10/15/2021</b>			SeqNo: <b>2907357</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	93.0	68.9	135			
Surr: DNOP	4.9		5.000		98.9	70	130			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit



**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2110554

21-Oct-21

**Client:** Safety & Environmental Solutions**Project:** Lone Tree Draw 13 State 2H

Sample ID: <b>mb-63240</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>63240</b>	RunNo: <b>82076</b>								
Prep Date: <b>10/12/2021</b>	Analysis Date: <b>10/15/2021</b>	SeqNo: <b>2908310</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		110	70	130			

Sample ID: <b>lcs-63240</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>63240</b>	RunNo: <b>82076</b>								
Prep Date: <b>10/12/2021</b>	Analysis Date: <b>10/15/2021</b>	SeqNo: <b>2908311</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	102	78.6	131			
Surr: BFB	1100		1000		111	70	130			

Sample ID: <b>mb-63250</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>63250</b>	RunNo: <b>82109</b>								
Prep Date: <b>10/12/2021</b>	Analysis Date: <b>10/16/2021</b>	SeqNo: <b>2908482</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		103	70	130			

Sample ID: <b>lcs-63250</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>63250</b>	RunNo: <b>82109</b>								
Prep Date: <b>10/12/2021</b>	Analysis Date: <b>10/16/2021</b>	SeqNo: <b>2908485</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	110	78.6	131			
Surr: BFB	1200		1000		119	70	130			

Sample ID: <b>2110554-004ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>SP-4 1ft</b>	Batch ID: <b>63250</b>	RunNo: <b>82109</b>								
Prep Date: <b>10/12/2021</b>	Analysis Date: <b>10/16/2021</b>	SeqNo: <b>2908488</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.9	24.32	0	101	61.3	114			
Surr: BFB	1100		972.8		117	70	130			

Sample ID: <b>2110554-004ams</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>SP-4 1ft</b>	Batch ID: <b>63250</b>	RunNo: <b>82109</b>								
Prep Date: <b>10/12/2021</b>	Analysis Date: <b>10/16/2021</b>	SeqNo: <b>2908491</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

Page 16 of 19

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2110554

21-Oct-21

Client: Safety & Environmental Solutions

Project: Lone Tree Draw 13 State 2H

Sample ID: 2110554-004ams		SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range						
Client ID: SP-4 1ft		Batch ID: 63250		RunNo: 82109						
Prep Date: 10/12/2021		Analysis Date: 10/16/2021		SeqNo: 2908491		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.9	24.32	0	107	61.3	114	5.89	20	
Surr: BFB	1300		972.8		129	70	130	0	0	

Qualifiers:

- \*

Value exceeds Maximum Contaminant Level.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical Quantitative Limit
- S

% Recovery outside of range due to dilution or matrix
- B

Analyte detected in the associated Method Blank
- E

Value above quantitation range
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2110554

21-Oct-21

Client: Safety &amp; Environmental Solutions

Project: Lone Tree Draw 13 State 2H

Sample ID: <b>mb-63240</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>63240</b>	RunNo: <b>82076</b>								
Prep Date: <b>10/12/2021</b>	Analysis Date: <b>10/15/2021</b>	SeqNo: <b>2908393</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.94		1.000		94.0	70	130			

Sample ID: <b>LCS-63240</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>63240</b>	RunNo: <b>82076</b>								
Prep Date: <b>10/12/2021</b>	Analysis Date: <b>10/15/2021</b>	SeqNo: <b>2908394</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	89.9	80	120			
Toluene	0.92	0.050	1.000	0	91.9	80	120			
Ethylbenzene	0.91	0.050	1.000	0	91.1	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.5	80	120			
Surr: 4-Bromofluorobenzene	0.89		1.000		88.9	70	130			

Sample ID: <b>mb-63250</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>63250</b>	RunNo: <b>82109</b>								
Prep Date: <b>10/12/2021</b>	Analysis Date: <b>10/16/2021</b>	SeqNo: <b>2908554</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.88		1.000		87.5	70	130			

Sample ID: <b>lcs-63250</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>63250</b>	RunNo: <b>82109</b>								
Prep Date: <b>10/12/2021</b>	Analysis Date: <b>10/16/2021</b>	SeqNo: <b>2908557</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	88.4	80	120			
Toluene	0.92	0.050	1.000	0	91.9	80	120			
Ethylbenzene	0.91	0.050	1.000	0	91.5	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.9	80	120			
Surr: 4-Bromofluorobenzene	0.85		1.000		85.0	70	130			

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

Page 18 of 19



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2110554

21-Oct-21

Client: Safety &amp; Environmental Solutions

Project: Lone Tree Draw 13 State 2H

Sample ID: 2110554-005ams		SampType: MS		TestCode: EPA Method 8021B: Volatiles						
Client ID: SP-5 1ft		Batch ID: 63250		RunNo: 82109						
Prep Date: 10/12/2021		Analysis Date: 10/16/2021		SeqNo: 2908560		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	84.7	80	120			
Toluene	0.87	0.050	1.000	0	86.6	80	120			
Ethylbenzene	0.89	0.050	1.000	0	88.5	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.0	80	120			
Surr: 4-Bromofluorobenzene	0.99		1.000		98.8	70	130			

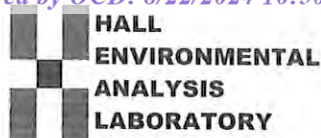
Sample ID: 2110554-005amsd		SampType: MSD		TestCode: EPA Method 8021B: Volatiles						
Client ID: SP-5 1ft		Batch ID: 63250		RunNo: 82109						
Prep Date: 10/12/2021		Analysis Date: 10/16/2021		SeqNo: 2908563		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	0.9881	0	87.1	80	120	1.67	20	
Toluene	0.91	0.049	0.9881	0	92.0	80	120	4.90	20	
Ethylbenzene	0.92	0.049	0.9881	0	92.9	80	120	3.64	20	
Xylenes, Total	2.9	0.099	2.964	0	96.8	80	120	3.87	20	
Surr: 4-Bromofluorobenzene	1.0		0.9881		101	70	130	0	0	

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

Page 19 of 19



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: clients.hallenvironmental.com

## Sample Log-In Check List

Client Name: Safety & Environmental Solutions

Work Order Number: 2110554

RcptNo: 1

Received By: Cheyenne Cason 10/12/2021 7:30:00 AM

Completed By: Sean Livingston 10/12/2021 8:40:38 AM

Reviewed By: *WKA* 10/12/21

*Chad*

*Sean Livingston*

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace  $<1/4"$  for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved  
bottles checked  
for pH:

( $<2$  or  $>12$  unless noted)

Adjusted?

Checked by: *gr 10/12/21*

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: \_\_\_\_\_

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

By Whom: \_\_\_\_\_

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: \_\_\_\_\_

Client Instructions: \_\_\_\_\_

16. Additional remarks:

17. Cooler Information

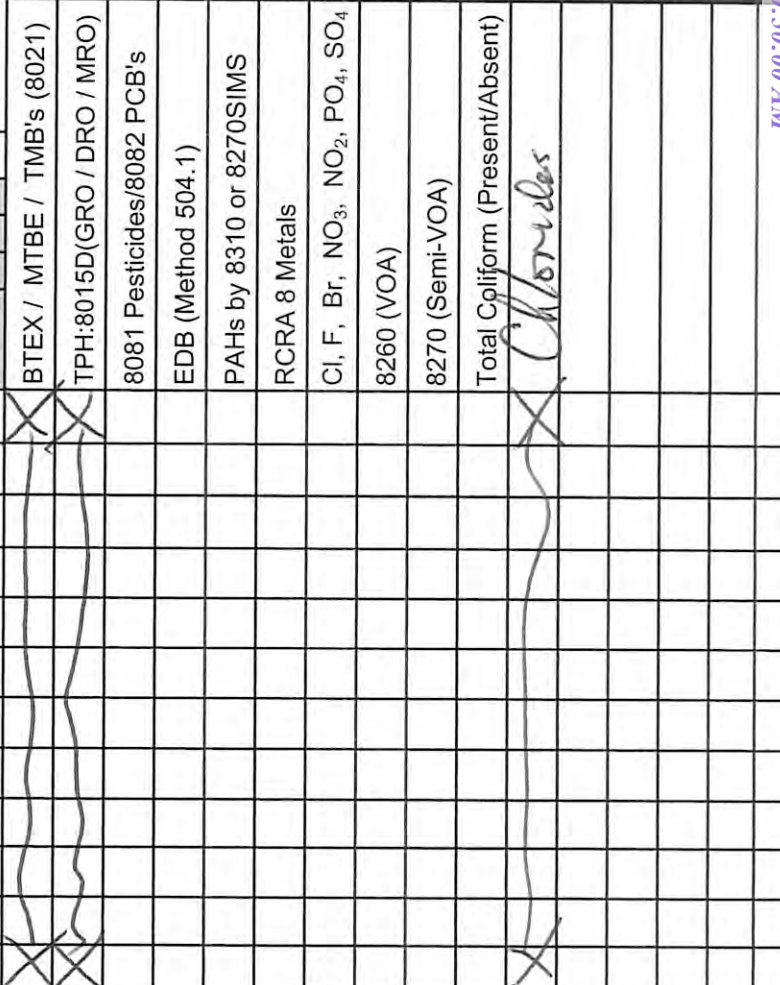
Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.9	Good				

Released to Imaging: 9/16/2024 2:24:29 PM

Date: 10/11/21	Time: 1900	Relinquished by: [Signature]
----------------	------------	------------------------------

1	<del>The</del>	001
1	Not	002
1		003
1		004
1		005
1		006
1		007
1		008
1		009
1		010
1		011
1		012

Received by: Via: Date Time  
Cue Courier 10/12/14 0730



Remarks: Bill Devon Direct



## Chain-of-Custody Record

Turn-Around Time:

Client:

☒ Standard ☐ Rush

Mailing Address:

Project Name:

Phone #:

Project #:

email or Fax#:

Project Manager:

QA/QC Package:

☒ Standard☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)

Sampler:

On Ice: ☒ Yes ☐ No

# of Coolers: (

Cooler Temp (including CF):  $1.8 + 0.1 = 1.9$  (°C)Container  
Type and #Preservative  
Type

HEAL No.

Date Time Matrix Sample Name

10/08 1210 S SP-13 LF

1

Tie  
best

013

BTEX / MTBE / TMB's (8021)

TPH:8015D(GRO / DRO / MRO)

8081 Pesticides/8082 PCB's

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

Cl, F, Br, NO<sub>3</sub>, NO<sub>2</sub>, PO<sub>4</sub>, SO<sub>4</sub>

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

Chloride

## Analysis Request

HALL ENVIRONMENTAL  
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Remarks:

Bei Devon Dural

Date:

Time:

Relinquished by:

Received by:

Via:

Date

Time

10/08 1730

Adunio

10/8/08 1730

Date:

Time:

Relinquished by:

Received by:

Via:

Date

Time

10/8/08 PM

Adunio

Cue count 10/12/08 0730

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
DEVON ENERGY - Lone Tree Draw 13 State 2H - nAPP2104831006								
Date: 8/9/24		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	CI mg/kg
CS1-2.5'	2.5'	ND	ND	ND	ND	ND	0	ND
CSW1-2.5'	2.5'	ND	ND	ND	ND	ND	0	ND
CS2-1.5'	1.5'	ND	ND	ND	ND	ND	0	ND
CSW2-1.5'	1.5'	ND	ND	ND	ND	ND	0	ND
CS3-1.5'	1.5'	ND	ND	ND	ND	ND	0	ND
CSW3-1.5'	1.5'	ND	ND	ND	ND	ND	0	ND
CS4-1.5'	1.5'	ND	ND	ND	ND	ND	0	ND
CSW4-1.5'	1.5'	ND	ND	ND	ND	ND	0	ND

Report to:  
Tom Bynum



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Lone Tree Draw 13 State Com 2H

Work Order: E408114

Job Number: 01058-0007

Received: 8/13/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
8/13/24

5796 U.S. Hwy 64  
Farmington, NM 87401

Phone: (505) 632-1881  
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.



Date Reported: 8/13/24

Tom Bynum  
PO Box 247  
Plains, TX 79355-0247



Project Name: Lone Tree Draw 13 State Com 2H  
Workorder: E408114  
Date Received: 8/13/2024 8:45:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/13/2024 8:45:00AM, under the Project Name: Lone Tree Draw 13 State Com 2H.

The analytical test results summarized in this report with the Project Name: Lone Tree Draw 13 State Com 2H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
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[mgonzales@envirotech-inc.com](mailto:mgonzales@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

## Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
CS1-2.5'	5
CSW1-2.5'	6
CS2-1.5'	7
CSW2-1.5'	8
CS3-1.5'	9
CSW3-1.5'	10
CS4-1.5'	11
CSW4-1.5'	12
QC Summary Data	13
QC - Volatile Organic Compounds by EPA8260B	13
QC - Nonhalogenated Organics by EPA 8015D - GRO	14
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	15
QC - Anions by EPA 300.0/9056A	16
Definitions and Notes	17
Chain of Custody etc.	18

Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Lone Tree Draw 13 State Com 2H	Reported: 08/13/24 15:45
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS1-2.5'	E408114-01A	Soil	08/09/24	08/13/24	Glass Jar, 2 oz.
CSW1-2.5'	E408114-02A	Soil	08/09/24	08/13/24	Glass Jar, 2 oz.
CS2-1.5'	E408114-03A	Soil	08/09/24	08/13/24	Glass Jar, 2 oz.
CSW2-1.5'	E408114-04A	Soil	08/09/24	08/13/24	Glass Jar, 2 oz.
CS3-1.5'	E408114-05A	Soil	08/09/24	08/13/24	Glass Jar, 2 oz.
CSW3-1.5'	E408114-06A	Soil	08/09/24	08/13/24	Glass Jar, 2 oz.
CS4-1.5'	E408114-07A	Soil	08/09/24	08/13/24	Glass Jar, 2 oz.
CSW4-1.5'	E408114-08A	Soil	08/09/24	08/13/24	Glass Jar, 2 oz.



## Sample Data

Pima Environmental Services-Carlsbad  
PO Box 247  
Plains TX, 79355-0247

Project Name: Lone Tree Draw 13 State Com 2H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
8/13/2024 3:45:41PM

## CS1-2.5'

## E408114-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2433036
Benzene	ND	0.0250	1	08/12/24	08/13/24	
Ethylbenzene	ND	0.0250	1	08/12/24	08/13/24	
Toluene	ND	0.0250	1	08/12/24	08/13/24	
o-Xylene	ND	0.0250	1	08/12/24	08/13/24	
p,m-Xylene	ND	0.0500	1	08/12/24	08/13/24	
Total Xylenes	ND	0.0250	1	08/12/24	08/13/24	
Surrogate: Bromofluorobenzene		100 %	70-130	08/12/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		99.8 %	70-130	08/12/24	08/13/24	
Surrogate: Toluene-d8		104 %	70-130	08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2433036
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/12/24	08/13/24	
Surrogate: Bromofluorobenzene		100 %	70-130	08/12/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		99.8 %	70-130	08/12/24	08/13/24	
Surrogate: Toluene-d8		104 %	70-130	08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2433034
Diesel Range Organics (C10-C28)	ND	25.0	1	08/13/24	08/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/13/24	08/13/24	
Surrogate: n-Nonane		107 %	50-200	08/13/24	08/13/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: WF		Batch: 2433031
Chloride	ND	20.0	1	08/13/24	08/13/24	



## Sample Data

Pima Environmental Services-Carlsbad  
PO Box 247  
Plains TX, 79355-0247

Project Name: Lone Tree Draw 13 State Com 2H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
8/13/2024 3:45:41PM

## CSW1-2.5'

## E408114-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2433036
Benzene	ND	0.0250	1	08/12/24	08/13/24	
Ethylbenzene	ND	0.0250	1	08/12/24	08/13/24	
Toluene	ND	0.0250	1	08/12/24	08/13/24	
o-Xylene	ND	0.0250	1	08/12/24	08/13/24	
p,m-Xylene	ND	0.0500	1	08/12/24	08/13/24	
Total Xylenes	ND	0.0250	1	08/12/24	08/13/24	
Surrogate: Bromofluorobenzene	97.8 %	70-130		08/12/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4	95.8 %	70-130		08/12/24	08/13/24	
Surrogate: Toluene-d8	106 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2433036
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/12/24	08/13/24	
Surrogate: Bromofluorobenzene	97.8 %	70-130		08/12/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4	95.8 %	70-130		08/12/24	08/13/24	
Surrogate: Toluene-d8	106 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2433034
Diesel Range Organics (C10-C28)	ND	25.0	1	08/13/24	08/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/13/24	08/13/24	
Surrogate: n-Nonane	114 %	50-200		08/13/24	08/13/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: WF		Batch: 2433031
Chloride	ND	20.0	1	08/13/24	08/13/24	



## Sample Data

Pima Environmental Services-Carlsbad  
PO Box 247  
Plains TX, 79355-0247

Project Name: Lone Tree Draw 13 State Com 2H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
8/13/2024 3:45:41PM

## CS2-1.5'

## E408114-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2433036
Benzene	ND	0.0250	1	08/12/24	08/13/24	
Ethylbenzene	ND	0.0250	1	08/12/24	08/13/24	
Toluene	ND	0.0250	1	08/12/24	08/13/24	
o-Xylene	ND	0.0250	1	08/12/24	08/13/24	
p,m-Xylene	ND	0.0500	1	08/12/24	08/13/24	
Total Xylenes	ND	0.0250	1	08/12/24	08/13/24	
Surrogate: Bromofluorobenzene	99.7 %	70-130		08/12/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		08/12/24	08/13/24	
Surrogate: Toluene-d8	104 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2433036
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/12/24	08/13/24	
Surrogate: Bromofluorobenzene	99.7 %	70-130		08/12/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		08/12/24	08/13/24	
Surrogate: Toluene-d8	104 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2433034
Diesel Range Organics (C10-C28)	ND	25.0	1	08/13/24	08/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/13/24	08/13/24	
Surrogate: n-Nonane	112 %	50-200		08/13/24	08/13/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: WF		Batch: 2433031
Chloride	ND	20.0	1	08/13/24	08/13/24	





## Sample Data

Pima Environmental Services-Carlsbad  
PO Box 247  
Plains TX, 79355-0247

Project Name: Lone Tree Draw 13 State Com 2H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
8/13/2024 3:45:41PM

## CSW2-1.5'

## E408114-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2433036
Benzene	ND	0.0250	1	08/12/24	08/13/24	
Ethylbenzene	ND	0.0250	1	08/12/24	08/13/24	
Toluene	ND	0.0250	1	08/12/24	08/13/24	
o-Xylene	ND	0.0250	1	08/12/24	08/13/24	
p,m-Xylene	ND	0.0500	1	08/12/24	08/13/24	
Total Xylenes	ND	0.0250	1	08/12/24	08/13/24	
Surrogate: Bromofluorobenzene	97.5 %	70-130		08/12/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4	99.8 %	70-130		08/12/24	08/13/24	
Surrogate: Toluene-d8	105 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2433036
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/12/24	08/13/24	
Surrogate: Bromofluorobenzene	97.5 %	70-130		08/12/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4	99.8 %	70-130		08/12/24	08/13/24	
Surrogate: Toluene-d8	105 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2433034
Diesel Range Organics (C10-C28)	ND	25.0	1	08/13/24	08/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/13/24	08/13/24	
Surrogate: n-Nonane	117 %	50-200		08/13/24	08/13/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: WF		Batch: 2433031
Chloride	ND	20.0	1	08/13/24	08/13/24	



## Sample Data

Pima Environmental Services-Carlsbad  
PO Box 247  
Plains TX, 79355-0247

Project Name: Lone Tree Draw 13 State Com 2H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
8/13/2024 3:45:41PM

## CS3-1.5'

## E408114-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2433036
Benzene	ND	0.0250	1	08/12/24	08/13/24	
Ethylbenzene	ND	0.0250	1	08/12/24	08/13/24	
Toluene	ND	0.0250	1	08/12/24	08/13/24	
o-Xylene	ND	0.0250	1	08/12/24	08/13/24	
p,m-Xylene	ND	0.0500	1	08/12/24	08/13/24	
Total Xylenes	ND	0.0250	1	08/12/24	08/13/24	
Surrogate: Bromofluorobenzene	96.6 %	70-130		08/12/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		08/12/24	08/13/24	
Surrogate: Toluene-d8	106 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2433036
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/12/24	08/13/24	
Surrogate: Bromofluorobenzene	96.6 %	70-130		08/12/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		08/12/24	08/13/24	
Surrogate: Toluene-d8	106 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2433034
Diesel Range Organics (C10-C28)	ND	25.0	1	08/13/24	08/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/13/24	08/13/24	
Surrogate: n-Nonane	114 %	50-200		08/13/24	08/13/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: WF		Batch: 2433031
Chloride	ND	20.0	1	08/13/24	08/13/24	



## Sample Data

Pima Environmental Services-Carlsbad  
PO Box 247  
Plains TX, 79355-0247

Project Name: Lone Tree Draw 13 State Com 2H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
8/13/2024 3:45:41PM

## CSW3-1.5'

## E408114-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2433036
Benzene	ND	0.0250	1	08/12/24	08/13/24	
Ethylbenzene	ND	0.0250	1	08/12/24	08/13/24	
Toluene	ND	0.0250	1	08/12/24	08/13/24	
o-Xylene	ND	0.0250	1	08/12/24	08/13/24	
p,m-Xylene	ND	0.0500	1	08/12/24	08/13/24	
Total Xylenes	ND	0.0250	1	08/12/24	08/13/24	
Surrogate: Bromofluorobenzene	96.2 %	70-130		08/12/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130		08/12/24	08/13/24	
Surrogate: Toluene-d8	104 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2433036
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/12/24	08/13/24	
Surrogate: Bromofluorobenzene	96.2 %	70-130		08/12/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130		08/12/24	08/13/24	
Surrogate: Toluene-d8	104 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2433034
Diesel Range Organics (C10-C28)	ND	25.0	1	08/13/24	08/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/13/24	08/13/24	
Surrogate: n-Nonane	105 %	50-200		08/13/24	08/13/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: WF		Batch: 2433031
Chloride	ND	20.0	1	08/13/24	08/13/24	





## Sample Data

Pima Environmental Services-Carlsbad  
PO Box 247  
Plains TX, 79355-0247

Project Name: Lone Tree Draw 13 State Com 2H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
8/13/2024 3:45:41PM

## CS4-1.5'

## E408114-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2433036
Benzene	ND	0.0250	1	08/12/24	08/13/24	
Ethylbenzene	ND	0.0250	1	08/12/24	08/13/24	
Toluene	ND	0.0250	1	08/12/24	08/13/24	
o-Xylene	ND	0.0250	1	08/12/24	08/13/24	
p,m-Xylene	ND	0.0500	1	08/12/24	08/13/24	
Total Xylenes	ND	0.0250	1	08/12/24	08/13/24	
Surrogate: Bromofluorobenzene	96.9 %	70-130		08/12/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		08/12/24	08/13/24	
Surrogate: Toluene-d8	105 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2433036
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/12/24	08/13/24	
Surrogate: Bromofluorobenzene	96.9 %	70-130		08/12/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		08/12/24	08/13/24	
Surrogate: Toluene-d8	105 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2433034
Diesel Range Organics (C10-C28)	ND	25.0	1	08/13/24	08/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/13/24	08/13/24	
Surrogate: n-Nonane	102 %	50-200		08/13/24	08/13/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: WF		Batch: 2433031
Chloride	ND	20.0	1	08/13/24	08/13/24	



## Sample Data

Pima Environmental Services-Carlsbad  
PO Box 247  
Plains TX, 79355-0247

Project Name: Lone Tree Draw 13 State Com 2H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
8/13/2024 3:45:41PM

## CSW4-1.5'

## E408114-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2433036
Benzene	ND	0.0250	1	08/12/24	08/13/24	
Ethylbenzene	ND	0.0250	1	08/12/24	08/13/24	
Toluene	ND	0.0250	1	08/12/24	08/13/24	
o-Xylene	ND	0.0250	1	08/12/24	08/13/24	
p,m-Xylene	ND	0.0500	1	08/12/24	08/13/24	
Total Xylenes	ND	0.0250	1	08/12/24	08/13/24	
Surrogate: Bromofluorobenzene	97.4 %	70-130		08/12/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4	99.1 %	70-130		08/12/24	08/13/24	
Surrogate: Toluene-d8	105 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2433036
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/12/24	08/13/24	
Surrogate: Bromofluorobenzene	97.4 %	70-130		08/12/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4	99.1 %	70-130		08/12/24	08/13/24	
Surrogate: Toluene-d8	105 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2433034
Diesel Range Organics (C10-C28)	ND	25.0	1	08/13/24	08/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/13/24	08/13/24	
Surrogate: n-Nonane	96.7 %	50-200		08/13/24	08/13/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: WF		Batch: 2433031
Chloride	ND	20.0	1	08/13/24	08/13/24	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Lone Tree Draw 13 State Com 2H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/13/2024 3:45:41PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2433036-BLK1) Prepared: 08/12/24 Analyzed: 08/12/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.492		0.500		98.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		96.0	70-130			
Surrogate: Toluene-d8	0.528		0.500		106	70-130			

LCS (2433036-BS1) Prepared: 08/12/24 Analyzed: 08/12/24

Benzene	2.45	0.0250	2.50		98.1	70-130			
Ethylbenzene	2.50	0.0250	2.50		100	70-130			
Toluene	2.55	0.0250	2.50		102	70-130			
o-Xylene	2.35	0.0250	2.50		93.9	70-130			
p,m-Xylene	4.73	0.0500	5.00		94.6	70-130			
Total Xylenes	7.08	0.0250	7.50		94.4	70-130			
Surrogate: Bromofluorobenzene	0.483		0.500		96.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		97.9	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			

LCS Dup (2433036-BSD1) Prepared: 08/12/24 Analyzed: 08/12/24

Benzene	2.46	0.0250	2.50		98.3	70-130	0.163	23	
Ethylbenzene	2.49	0.0250	2.50		99.4	70-130	0.782	27	
Toluene	2.50	0.0250	2.50		100	70-130	1.86	24	
o-Xylene	2.40	0.0250	2.50		96.0	70-130	2.15	27	
p,m-Xylene	4.81	0.0500	5.00		96.3	70-130	1.70	27	
Total Xylenes	7.21	0.0250	7.50		96.2	70-130	1.85	27	
Surrogate: Bromofluorobenzene	0.483		0.500		96.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.3	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-130			





QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Lone Tree Draw 13 State Com 2H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/13/2024 3:45:41PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2433036-BLK1) Prepared: 08/12/24 Analyzed: 08/12/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.492		0.500		98.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		96.0	70-130			
Surrogate: Toluene-d8	0.528		0.500		106	70-130			

LCS (2433036-BS2) Prepared: 08/12/24 Analyzed: 08/12/24

Gasoline Range Organics (C6-C10)	49.5	20.0	50.0		98.9	70-130			
Surrogate: Bromofluorobenzene	0.491		0.500		98.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		98.9	70-130			
Surrogate: Toluene-d8	0.533		0.500		107	70-130			

LCS Dup (2433036-BSD2) Prepared: 08/12/24 Analyzed: 08/12/24

Gasoline Range Organics (C6-C10)	50.7	20.0	50.0		101	70-130	2.46	20	
Surrogate: Bromofluorobenzene	0.496		0.500		99.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.508		0.500		102	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Lone Tree Draw 13 State Com 2H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/13/2024 3:45:41PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2433034-BLK1)					Prepared: 08/12/24 Analyzed: 08/13/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	60.4		50.0		121	50-200			

LCS (2433034-BS1)					Prepared: 08/12/24 Analyzed: 08/13/24				
Diesel Range Organics (C10-C28)	263	25.0	250		105	38-132			
Surrogate: n-Nonane	53.2		50.0		106	50-200			

LCS Dup (2433034-BSD1)					Prepared: 08/12/24 Analyzed: 08/13/24				
Diesel Range Organics (C10-C28)	263	25.0	250		105	38-132	0.000802	20	
Surrogate: n-Nonane	53.9		50.0		108	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Lone Tree Draw 13 State Com 2H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/13/2024 3:45:41PM

Anions by EPA 300.0/9056A

Analyst: WF

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2433031-BLK1)					Prepared: 08/12/24 Analyzed: 08/12/24				
Chloride	ND	20.0							
LCS (2433031-BS1)					Prepared: 08/12/24 Analyzed: 08/12/24				
Chloride	252	20.0	250		101	90-110			
LCS Dup (2433031-BSD1)					Prepared: 08/12/24 Analyzed: 08/12/24				
Chloride	252	20.0	250		101	90-110	0.230	20	

QC Summary Report Comment:  
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.  
Therefore, hand calculated values may differ slightly.

Definitions and Notes

Pima Environmental Services-Carlsbad	Project Name:	Lone Tree Draw 13 State Com 2H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	08/13/24 15:45

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.







## Envirotech Analytical Laboratory

Printed: 8/13/2024 10:46:13AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Pima Environmental Services-Carlsbad	Date Received:	08/13/24 08:45	Work Order ID:	E408114
Phone:	(575) 631-6977	Date Logged In:	08/12/24 15:04	Logged In By:	Alexa Michaels
Email:	tom@pimaoil.com	Due Date:	08/13/24 17:00 (0 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/Resolution

Sampled by name is missing in COC by client.

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

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

QUESTIONS  
  
Action 376517

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	376517
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2104831006
Incident Name	NAPP2104831006 LONE TREE 13 ST COM #2H @ 30-015-40372
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-40372] LONE TREE DRAW 13 STATE COM #002H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	LONE TREE 13 ST COM #2H
Date Release Discovered	01/31/2021
Surface Owner	Private

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Equipment Failure   Valve   Crude Oil   Released: 22 BBL   Recovered: 20 BBL   Lost: 2 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 376517

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
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	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

**Initial Response**

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

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

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

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

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmn.com Date: 08/22/2024
----------------------------------------------------	--------------------------------------------------------------------------------------------------



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QUESTIONS, Page 3

Action 376517

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 376517
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS****Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Less than or equal 25 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

**Remediation Plan**

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

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

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

Chloride	(EPA 300.0 or SM4500 Cl B)	450
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	181
GRO+DRO	(EPA SW-846 Method 8015M)	100
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	08/05/2024
On what date will (or did) the final sampling or liner inspection occur	08/09/2024
On what date will (or was) the remediation complete(d)	08/18/2024
What is the estimated surface area (in square feet) that will be reclaimed	573
What is the estimated volume (in cubic yards) that will be reclaimed	38
What is the estimated surface area (in square feet) that will be remediated	573
What is the estimated volume (in cubic yards) that will be remediated	38

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

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

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QUESTIONS, Page 4

Action 376517

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	376517
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS****Remediation Plan (continued)**

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

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

(Select all answers below that apply.)

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

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

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

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmn.com Date: 08/22/2024
----------------------------------------------------	--------------------------------------------------------------------------------------------------

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

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QUESTIONS, Page 5  
  
Action 376517

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 376517
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 376517

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	376517
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Sampling Event Information</b>	
Last sampling notification (C-141N) recorded	371591
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/09/2024
What was the (estimated) number of samples that were to be gathered	8
What was the sampling surface area in square feet	573

**Remediation Closure Request**

*Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.*

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	573
What was the total volume (cubic yards) remediated	38
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	573
What was the total volume (in cubic yards) reclaimed	38
Summarize any additional remediation activities not included by answers (above)	see report

*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 (in .pdf format) 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.*

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.

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmn.com Date: 08/22/2024
----------------------------------------------------	--------------------------------------------------------------------------------------------------



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QUESTIONS, Page 7  
  
Action 376517

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:
	6137
	Action Number:
	376517
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS  
  
Action 376517

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 376517
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2104831006 LONE TREE 13 ST COM #2H, thank you. This Remediation Closure Report is approved.	9/16/2024