Earthstone Operating, LLC. 300 N Marienfeld St., Suite 1000 Midland, TX 79701 432-695-4222

May 14, 2024

NMOCD District 1 1625 N French Dr. Hobbs, NM 88240

Re: **Site Characterization and Remediation Closure Report**

> Thunderball CTB API No. N/A

GPS: Latitude 32.637162 Longitude -103.527776

UL -- B, Sec. 26, T19S, R34E

Lea County, NM

NMOCD Ref. No. nAPP2412321969

This fire/release was discovered by the operator on February 15, 2024. The initial Notification of Release and C-141 were submitted on May 2, 2024 (OCD Permitting: Applications [339846] and [339900]). This incident was assigned Incident ID nAPP2412321969 by the New Mexico Oil Conservation Division (NMOCD).

Release Information

nAPP2412321969: On February 15, 2024, during flowback an operator routed production through a VRT but the outlet valve to the tanks was still shut resulting in the overflow of the VRT sending fluid directly to the flare. This resulted in a flash fire which was largely selfextinguished and contained to the pad. However, a forklift, which was trespassing on the location, was in the line of fire and Hobbs FD was called to extinguish the burnt forklift. Approximately 1.5 barrels (bbls) of crude oil was released and 0 bbls were recovered due to being consumed by the fire. A Site Map can be found in Figure 4.

Site Information and Site Characterization

The Thunderball CTB (Thunderball) is located approximately twenty-two (22) miles west-southwest of Hobbs, NM. The release area around the flare is in Unit B, Section 26, Township 19S, Range 34E, Latitude 32.637162 Longitude -103.527776, Lea 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 and piedmont deposits; Interlayered eolian sands and piedmont-slope deposits along the eastern flank of the Pecos River valley, primarily between Roswell and Carlsbad. Typically capped by thin eolian deposits. The soil in this area is made up of Kermit soils and dune land, 0 to 12 percent slopes according to the United States Department of Agriculture Natural Resources Conservation Service soil survey. The drainage class in this area is: Excessively drained (Appendix B). A Topographic Map can be found in Figure 2. The nearest surface water feature is a salt pond located approximately 10.3 miles to the southwest of this site. There is a low potential for karst geology to be present around the Thunderball (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 28 feet below grade surface (BGS). According to the United States Geological Survey well water data, depth to the nearest groundwater in this area is 67 feet BGS. The groundwater information from any well/pod is more than 1 mile away from this site and is more than 25 years old. Depth to groundwater at the Thunderball will be classified as less than 50' (BGS). Referenced water surveys and water-related maps can be found in Appendix A.

Remediation Activities

On May 6, 2024, Earthstone Operating contracted Wild West Services to begin an at-risk excavation. As most of the fluid was consumed by the fire, they performed a scrape, approximately 6" BGS, of the 4,128 square foot release area. Approximately 77 cubic yards of soil were removed and hauled to Lea Land, an NMOCD-approved disposal facility. Pima Environmental also mobilized personnel to the site to monitor the excavation by collecting soil samples from the release area as the excavation progressed.

On May 7, 2024, after Earthstone submitted a 48-hour notification of the sampling event, Pima personnel began collecting 5-point composite confirmation samples from the base and sidewalls of the excavation. A total of 21 base samples and 1 wall sample were collected from the 4,128 square foot release area. The laboratory results of this sampling event can be seen in the following data table.

5-7-24 Confirmation Soil Sample Results

NMC	CD Table	1 Closure	Criteria 19	.15.29 N	MAC (Dept	th to Grou	undwater is	<50')	
	ALCOHOLD BY	EARTHS	TONE OPER	RATING, L	LC - Thund	erball CTE	3		
Date: 5/7/24 NM Approved Laboratory Results									
Sample	Depth	BTEX	Benzene	GRO	DRO	MRO	Total TPH	Cl	
ID	(BGS)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
CS1	6"	ND	ND	ND	ND	ND	0	32	
CS2	6"	ND	ND	ND	ND	ND	0	16	
CS3	6"	ND	ND	ND	ND	ND	0	32	
CS4	6"	ND	ND	ND	ND	ND	0	32	
CS5	6"	ND	ND	ND	ND	ND	0	32	
CS6	6"	ND	ND	ND	ND	ND	0	16	
CS7	6"	ND	ND	ND	ND	ND	0	32	
CS8	6"	ND	ND	ND	ND	ND	0	16	
CS9	6"	ND	ND	ND	ND	ND	0	80	
CS10	6"	ND	ND	ND	ND	ND	0	16	
CS11	6"	ND	ND	ND	ND	ND	0	16	
CS12	6"	ND	ND	ND	ND	ND	0	16	
CS13	6"	ND	ND	ND	ND	ND	0	32	
CS14	6"	ND	ND	ND	ND	ND	0	16	
CS15	6"	ND	ND	ND	ND	ND	0	16	
CS16	6"	ND	ND	ND	ND	ND	0	16	
CS17	6"	ND	ND	ND	ND	ND	0	16	
CS18	6"	ND	ND	ND	ND	ND	0	16	
CS19	6"	ND	ND	ND	ND	ND	0	32	
CS20	6"	ND	ND	ND	ND	ND	0	ND	
CS21	6"	ND	ND	ND	ND	ND	0	32	
CSW1	6"	ND	ND	ND	ND	ND	0	16	

ND - Non-Detect

A complete Laboratory Report can be found in Appendix E.

Closure Request

Based on the sample results, the contamination levels are less than the regulatory limits of the <50' closure criteria in Table 1 of NMAC 19.15.29.1. A Confirmation Sample Map can be found in Figure 5. After careful review, Earthstone requests that this incident, nAPP2412321969, be closed. Earthstone has complied with the applicable closure requirements set forth in rule 19.15.19.12 NMAC.

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

Permian Resources - Montgomery Floyd - 432-315-0134 or montgomery.floyd@permianres.com.

Pima Environmental – Tom Bynum – 580-748-1613 or tom@pimaoil.com.

Attachments

Figures:

- 1- Location Map
- 2- Topographic Map
- 3- Karst Map
- 4- Site Map
- 5- Confirmation Sample Map

Appendices:

Appendix A – Referenced Water Surveys and Water-Related Maps

Appendix B – Soil Survey and Geological Data

Appendix C – C-141 Pages and NMOCD Correspondence

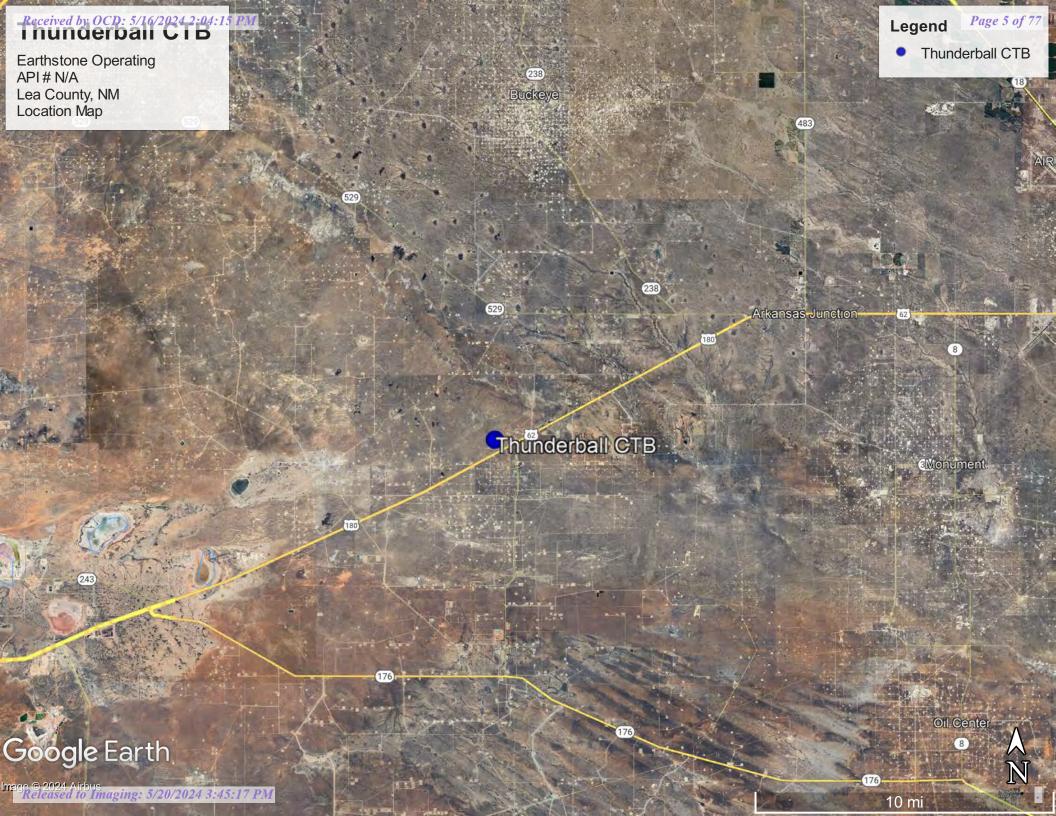
Appendix D – Photographic Documentation

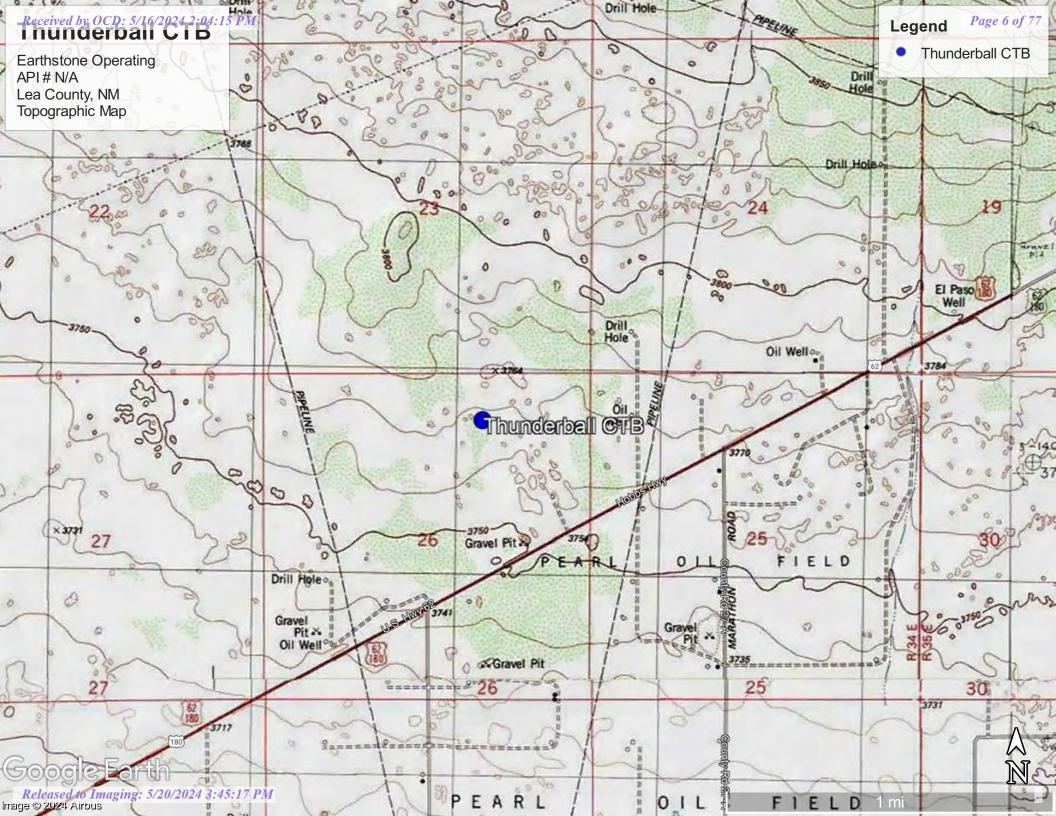
Appendix E – Laboratory Reports

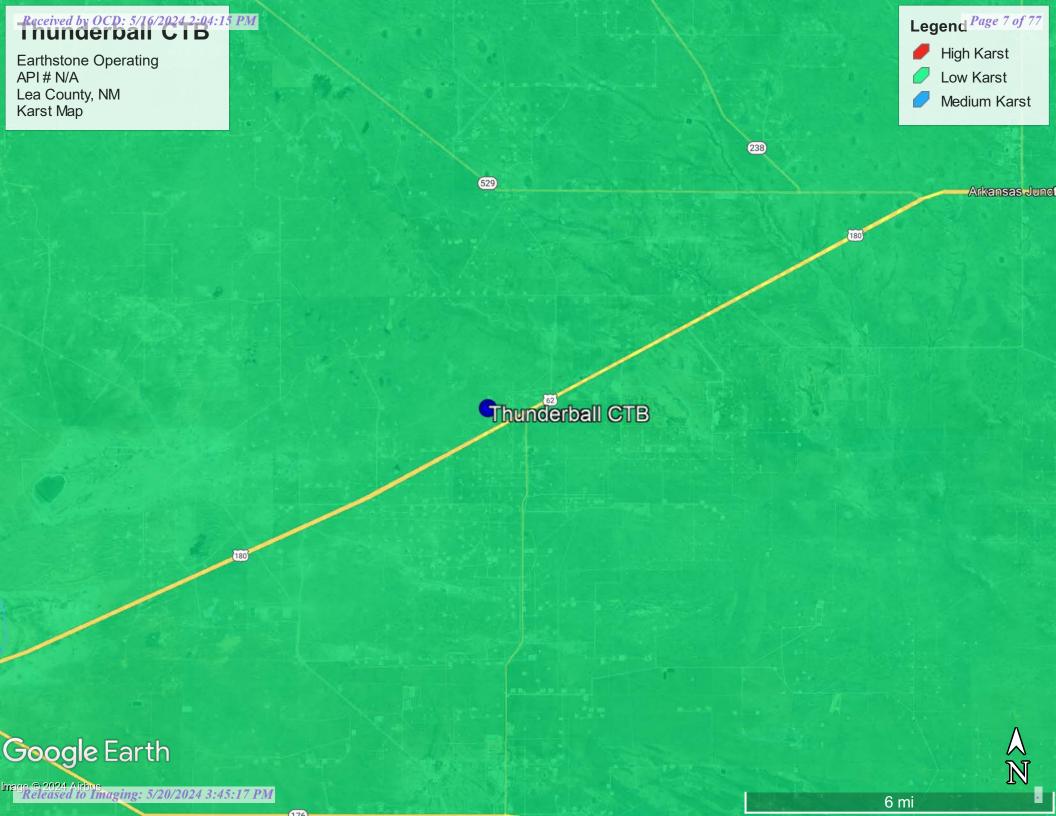


Figures:

- 1 Location Map
- 2 Topographic Map
 - 3 Karst Map
 - 4 Site Map
- 5 Confirmation Sample Map









Received by OCD: 5/16/2024 2:04:15 PM

Earthstone Operating API#N/A Lea County, NM Confirmation Sample Map



Legend

Page 9 of 77

5-Point Composite Base Samples

5-Point Composite Wall Sample

Spill area - 4,128 sqft





Appendix A

Water Surveys:

OSE

USGS

Water-Related Maps:

Surface Water Map

Wetlands Map

FEMA 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

		Sub-		Q	Q	Q								V	Vater
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	X	Y	DistanceDep	thWellDe	pthWater C	olumn
<u>CP 00683 POD1</u>		CP	LE	3	3	4	25	19S	34E	639530	3610685*	1959	120	28	92
<u>CP 01672 POD1</u>		CP	LE	1	3	1	36	19S	34E	638736	3610009	2109	100		
<u>L 08941</u>		L	LE	2	3	3	19	19S	35E	640510	3612523	2465	600	286	314

Average Depth to Water:

157 feet

Minimum Depth:

28 feet

Maximum Depth:

286 feet

Record Count: 3

UTMNAD83 Radius Search (in meters):

Easting (X): 638096.46 **Northing (Y):** 3612020.24 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.

5/2/24 8:09 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources	Data Category:	Geographic Area:	
03d3 Water Resources	Groundwater ~	United States	∨ GO

Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access realtime water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

Important: <u>Next Generation Monitoring Location Page</u>

Search Results -- 1 sites found

site_no list =

• 323855103294001

GO

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 323855103294001 19S.35E.19.21110

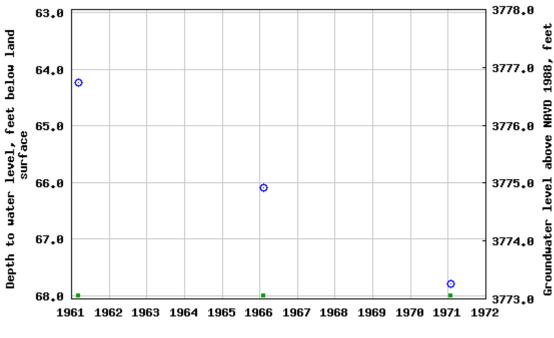
Available data for this site Groundwater: Field measurements

Lea County, New Mexico	
Hydrologic Unit Code 13060011	
Latitude 32°38'55", Longitude 103°29'40" NAD27	
Land-surface elevation 3,841 feet above NAVD88	
This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.	
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposi	ts
(110AVMB) local aquifer.	

Output formats

Table of data	
<u>Tab-separated data</u>	
Graph of data	
Reselect period	





- Period of approved data

Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u>

Questions or Comments
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility

FOIA

Privacy

Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels

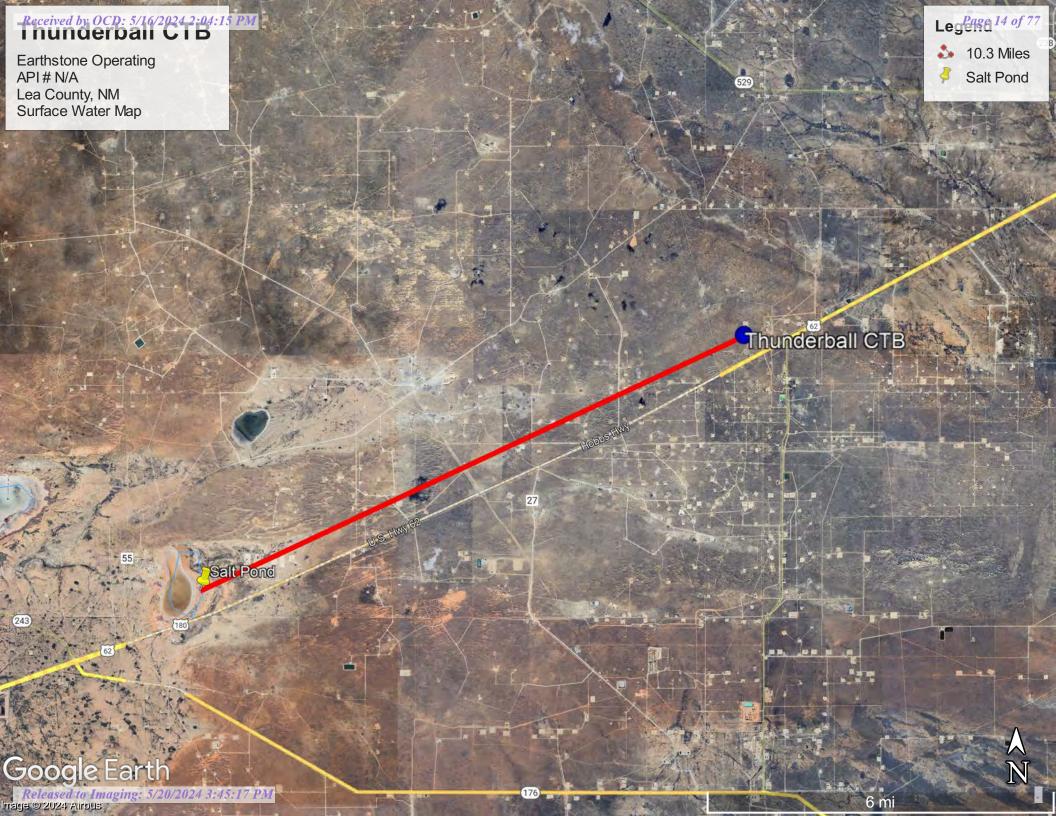
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2024-05-02 22:02:32 EDT

0.63 0.52 nadww02







Wetlands



May 3, 2024

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

Other

Riverine



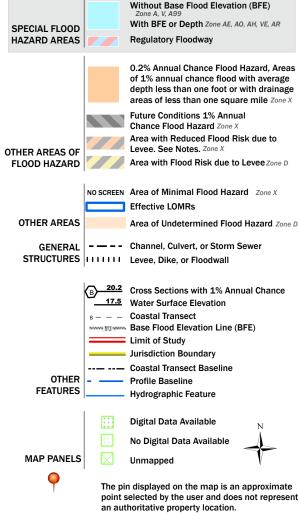
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

National Flood Hazard Layer FIRMette



Legend

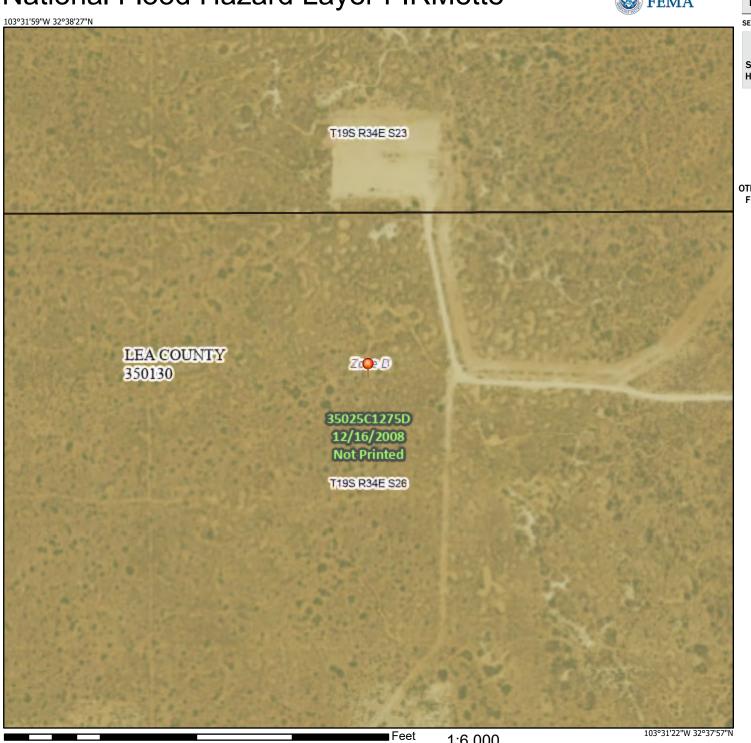
SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT



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 5/2/2024 at 10:17 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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



OReleas 250 Imaging: 5/20/2024 3.95:17 PM

2,000



Appendix B

Soil Survey & Geological Data

Lea County, New Mexico

KM—Kermit soils and Dune land, 0 to 12 percent slopes

Map Unit Setting

National map unit symbol: dmpx Elevation: 3,000 to 4,400 feet

Mean annual precipitation: 10 to 15 inches Mean annual air temperature: 60 to 62 degrees F

Frost-free period: 190 to 205 days

Farmland classification: Not prime farmland

Map Unit Composition

Kermit and similar soils: 46 percent

Dune land: 44 percent

Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Kermit

Setting

Landform: Dunes

Landform position (two-dimensional): Shoulder, backslope,

footslope

Landform position (three-dimensional): Side slope Down-slope shape: Concave, convex, linear

Across-slope shape: Convex

Parent material: Calcareous sandy eolian deposits derived from

sedimentary rock

Typical profile

A - 0 to 8 inches: fine sand C - 8 to 60 inches: fine sand

Properties and qualities

Slope: 5 to 12 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Excessively drained

Runoff class: Very low

Capacity of the most limiting layer to transmit water (Ksat): Very

high (20.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 3 percent

Gypsum, maximum content: 1 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Low (about 3.1 inches)

Map Unit Description: Kermit soils and Dune land, 0 to 12 percent slopes---Lea County, New Mexico

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: A

Ecological site: R070BC022NM - Sandhills

Hydric soil rating: No

Description of Dune Land

Setting

Landform: Dunes

Landform position (two-dimensional): Shoulder, backslope,

footslope

Landform position (three-dimensional): Side slope Down-slope shape: Concave, convex, linear

Across-slope shape: Convex

Parent material: Sandy eolian deposits derived from sedimentary

rock

Typical profile

A - 0 to 6 inches: fine sand C - 6 to 60 inches: fine sand

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8

Hydrologic Soil Group: A Hydric soil rating: No

Minor Components

Palomas

Percent of map unit: 3 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Pyote

Percent of map unit: 3 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Wink

Percent of map unit: 2 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Maljamar

Percent of map unit: 2 percent

Ecological site: R070BD003NM - Loamy Sand

Map Unit Description: Kermit soils and Dune land, 0 to 12 percent slopes---Lea County, New Mexico

Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico Survey Area Data: Version 20, Sep 6, 2023



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 \odot



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow Marsh or swamp





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

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

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

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

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

Soil Survey Area: Lea County, New Mexico Survey Area Data: Version 20, Sep 6, 2023

Soil map units are labeled (as space allows) for map scales 1:50.000 or larger.

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

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

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
км	Kermit soils and Dune land, 0 to 12 percent slopes	10.3	30.5%
PY	Pyote soils and Dune land	23.4	69.5%
Totals for Area of Interest		33.7	100.0%



Appendix C

C-141 Pages NMOCD Correspondence Responsible Party: Earthstone Operating, LLC

District 1
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	nAPP2412321969
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

OGRID: 331165

Contact Name: Montgomery Floyd			Contact Telephone: 432-315-0134					
Contact ema	il: montgom	ery.floyd@permi	anres.com		Incident # nAPP2412321969			
	Contact mailing address: 300 N. Marienfeld St. Suite 1000, Midland, Tx 79701							
			Locatio	n of R	telease S	ource		
Latitude 32.6	53725		(NAD 83 in e	decimal de	Longitude grees to 5 deci	-103.52721 mal places)		
Site Name: T	hunderball (СТВ			Site Type:	Production Fa	cility	
Date Release	Discovered	: 2/15/2024			API# (if ap	plicable)		
Unit Letter	Section	Township	Range		Cou	nty		
В	26	198	34E	Lea				
	Materia 1	l(s) Released (Select : Volume Releas				c justification for th	ne volumes provided below) covered (bbls) 0	
Produced	Water	Volume Releas	ed (bbls)			Volume Recovered (bbls)		
	Is the concentration of dissolved chlorid produced water >10,000 mg/l?			chloride	in the	☐ Yes ☐ No		
Condensa	Condensate Volume Released (bbls)					Volume Recovered (bbls)		
☐ Natural C	as	Volume Releas	ed (Mcf)			Volume Recovered (Mcf)		
Other (de	scribe)	Volume/Weigh	t Released (provi	ide units))	Volume/We	ight Recovered (provide units)	
of the VRT s	oack an oper ending fluid	directly to the fla	re. This resulted	in a flas	h fire which	was largely se	s was still shut resulting in the overflow If extinguished and contained to the pad It was called to extinguish the burnt	

Page 2

Oil Conservation Division

Incident ID	nAPP2412321969
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the respo The released fluids resulted in a fire.	nsible party consider this a major release?
	otice given to the OCD? By whom? To we given. This is a back dated report due to the	nom? When and by what means (phone, email, etc)? e fire.
	Initial R	esponse
The responsible	party must undertake the following actions immediate	y unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
The impacted area ha	as been secured to protect human health and	the environment.
Released materials ha	ave been contained via the use of berms or	likes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed an	d managed appropriately.
	d above have <u>not</u> been undertaken, explain	emediation immediately after discovery of a release. If remediation
has begun, please attach	a narrative of actions to date. If remedial	efforts have been successfully completed or if the release occurred blease attach all information needed for closure evaluation.
regulations all operators are public health or the environ failed to adequately investig	required to report and/or file certain release not ment. The acceptance of a C-141 report by the G gate and remediate contamination that pose a thro	best of my knowledge and understand that pursuant to OCD rules and fications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
Printed Name: Montgome	ery Floyd	Title: Environmental
Signature:	The	Date: \$ 5-1-24
Email: montgomery.floyo	d@permianres.com	Telephone: 432-425-8321
OCD Only		
Received by:		Date:

Incident ID nAPP2412321969
District RP
Facility ID
Application ID

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u><50</u> (ft bgs)
Did this release impact groundwater or surface water?	Yes X No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	Yes X No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes 🛣 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	Yes X No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☑ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes 🛣 No
Are the lateral extents of the release within 300 feet of a wetland?	Yes No
Are the lateral extents of the release overlying a subsurface mine?	Yes No
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes No
Are the lateral extents of the release within a 100-year floodplain?	Yes No
Did the release impact areas not on an exploration, development, production, or storage site?	Yes No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	
x Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well Field data	ls.

Characterization Report Checklist: Each of the following items must be included in the report.
Character Entrol Report Checking.
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
x Field data
x Data table of soil contaminant concentration data
x Depth to water determination
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
X Boring or excavation logs
Note: Photographs including date and GIS information
x Topographic/Aerial maps
Laboratory data including chain of custody

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

Form C-141 Page 4

State of New Mexico Oil Conservation Division

Incident ID	nAPP2412321969
District RP	
Facility ID	
Application ID	

public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a ti	otifications and perform corrective actions for releases which may endanger e OCD does not relieve the operator of liability should their operations have
Printed Name: Montgomery Floyd Signature: email: montgomery.floyd@permianres.com	Title: Date: 5-15-2 Telephone: 432-315-0134
OCD Only Received by:	Date:

Form C-141 Page 6

State of New Mexico Oil Conservation Division

Incident ID	nAPP2412321969
District RP	
Facility ID	
Application ID	

Closure

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

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

A scaled site and sampling diagram as described in 19.15.29.11 NMAC
X Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office x x x x x x x x x
X Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
Description of remediation activities
the state of my knowledge and understand that pursuant to OCD
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. Name: Montgomery Floyd Title: Date: Title: Date: Title: Date: Telephone: 432-315-0134
OCD Only
Received by:
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.
Closure Approved by: Date:
Printed Name: Title:

----- Forwarded message ------

From: "OCDOnline@state.nm.us" <OCDOnline@state.nm.us>

To: Matthew Taylor < Matthew. Taylor@permianres.com>

Cc: Bcc:

Date: Fri, 3 May 2024 18:18:04 +0000

Subject: -EXTERNAL- The Oil Conservation Division (OCD) has accepted the application, Application ID: 340696

WARNING: The sender of this email could not be validated and may not match the person in the "From" field.

To whom it may concern (c/o Matthew Taylor for Earthstone Operating, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2412321969.

The sampling event is expected to take place:

When: 05/07/2024 @ 09:00

Where: B-26-19S-34E 0 FNL 0 FEL (32.63725,-103.52721)

Additional Information: Marisa Loya

(575)416-0639

Conformation sampling will begin 5/7/2024 and end on 5/10/2024.

Additional Instructions: 32.637009,-103.528136

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.

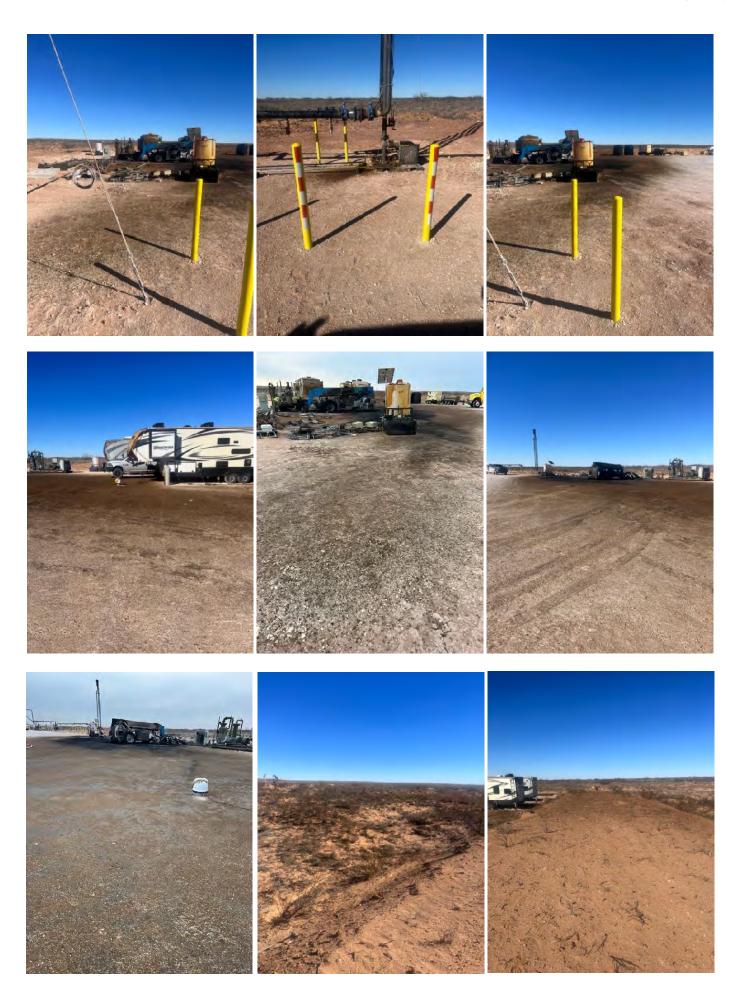
If you have any questions regarding this application, or don't know why you have received this email, please contact us.

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



Appendix D

Photographic Documentation



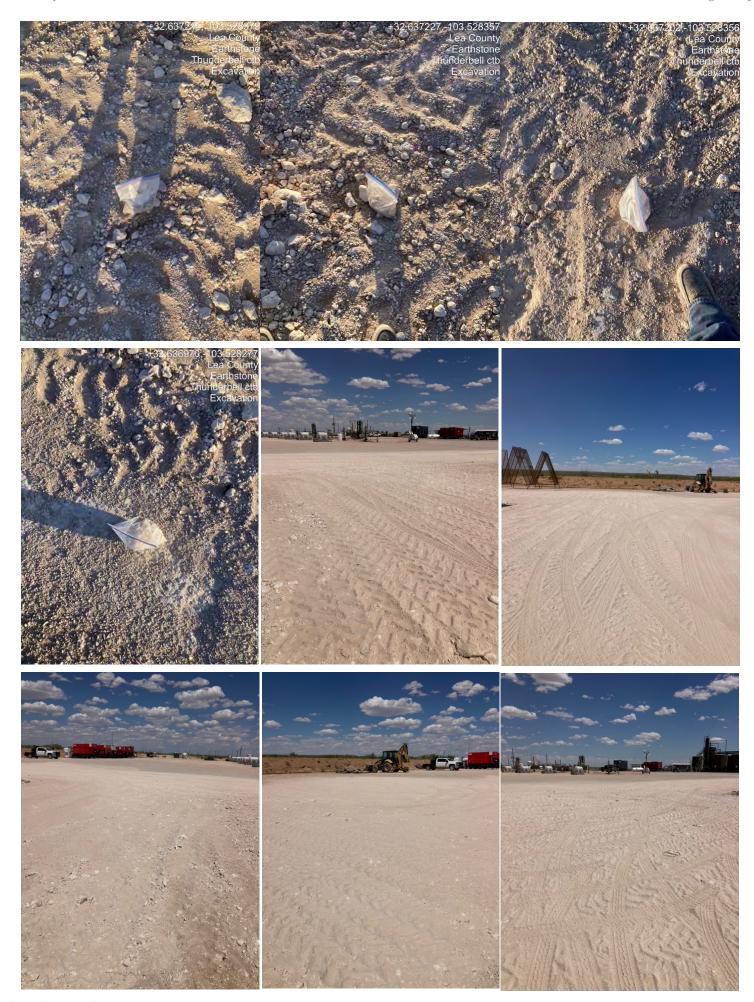








Released to Imaging: 5/20/2024 3:45:17 PM



Released to Imaging: 5/20/2024 3:45:17 PM





Appendix E

Laboratory Reports



May 10, 2024

GIO GOMEZ
PIMA ENVIROMENTAL
1601 N TURNER STE. 500
HOBBS, NM 88240

RE: THUNDERBALL CTB

Enclosed are the results of analyses for samples received by the laboratory on 05/09/24 10:17.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Celey D. Keine

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

PIMA ENVIROMENTAL GIO GOMEZ 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 05/09/2024 Reported: 05/10/2024

Project Name: THUNDERBALL CTB

Project Number: 38-1

Project Location: PERMIAN - LEA CO NM

Sampling Date: 05/07/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 1 (H242522-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2024	ND	2.09	105	2.00	0.574	
Toluene*	<0.050	0.050	05/10/2024	ND	2.06	103	2.00	4.79	
Ethylbenzene*	<0.050	0.050	05/10/2024	ND	2.08	104	2.00	4.57	
Total Xylenes*	<0.150	0.150	05/10/2024	ND	6.83	114	6.00	4.43	
Total BTEX	<0.300	0.300	05/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/10/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2024	ND	206	103	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/09/2024	ND	192	95.9	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	05/09/2024	ND					
Surrogate: 1-Chlorooctane	67.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	71.2	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

PIMA ENVIROMENTAL **GIO GOMEZ** 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 05/09/2024 Sampling Date: 05/07/2024

Reported: 05/10/2024 Sampling Type: Soil

Project Name: THUNDERBALL CTB Sampling Condition: Cool & Intact Sample Received By: Project Number: 38-1 Tamara Oldaker

Project Location: PERMIAN - LEA CO NM

Sample ID: CS 2 (H242522-02)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2024	ND	2.09	105	2.00	0.574	
Toluene*	<0.050	0.050	05/10/2024	ND	2.06	103	2.00	4.79	
Ethylbenzene*	<0.050	0.050	05/10/2024	ND	2.08	104	2.00	4.57	
Total Xylenes*	<0.150	0.150	05/10/2024	ND	6.83	114	6.00	4.43	
Total BTEX	<0.300	0.300	05/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/10/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2024	ND	206	103	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/09/2024	ND	192	95.9	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	05/09/2024	ND					
Surrogate: 1-Chlorooctane	79.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.6	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

PIMA ENVIROMENTAL GIO GOMEZ 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 05/09/2024 Reported: 05/10/2024

Project Name: THUNDERBALL CTB

Project Number: 38-1
Project Location: PERMIAN - LEA CO NM

Sampling Date: 05/07/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 3 (H242522-03)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2024	ND	2.09	105	2.00	0.574	
Toluene*	<0.050	0.050	05/10/2024	ND	2.06	103	2.00	4.79	
Ethylbenzene*	<0.050	0.050	05/10/2024	ND	2.08	104	2.00	4.57	
Total Xylenes*	<0.150	0.150	05/10/2024	ND	6.83	114	6.00	4.43	
Total BTEX	<0.300	0.300	05/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/10/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2024	ND	206	103	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/09/2024	ND	192	95.9	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	05/09/2024	ND					
Surrogate: 1-Chlorooctane	77.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.0	% 49.1-14	8						

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*=Accredited Analyte

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Celey D. Keine



Analytical Results For:

PIMA ENVIROMENTAL GIO GOMEZ 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 05/09/2024 Reported: 05/10/2024

Project Name: THUNDERBALL CTB

Project Number: 38-1

Project Location: PERMIAN - LEA CO NM

ma/ka

Sampling Date: 05/07/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 4 (H242522-04)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2024	ND	2.09	105	2.00	0.574	
Toluene*	<0.050	0.050	05/10/2024	ND	2.06	103	2.00	4.79	
Ethylbenzene*	<0.050	0.050	05/10/2024	ND	2.08	104	2.00	4.57	
Total Xylenes*	<0.150	0.150	05/10/2024	ND	6.83	114	6.00	4.43	
Total BTEX	<0.300	0.300	05/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/10/2024	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2024	ND	206	103	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/09/2024	ND	192	95.9	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	05/09/2024	ND					
Surrogate: 1-Chlorooctane	94.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

Analyzed By: MC

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Celey D. Keene



Analytical Results For:

PIMA ENVIROMENTAL GIO GOMEZ 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 05/09/2024 Reported: 05/10/2024

Project Name: THUNDERBALL CTB

Project Number: 38-1

Project Location: PERMIAN - LEA CO NM

Sampling Date: 05/07/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 5 (H242522-05)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2024	ND	2.09	105	2.00	0.574	
Toluene*	<0.050	0.050	05/10/2024	ND	2.06	103	2.00	4.79	
Ethylbenzene*	<0.050	0.050	05/10/2024	ND	2.08	104	2.00	4.57	
Total Xylenes*	<0.150	0.150	05/10/2024	ND	6.83	114	6.00	4.43	
Total BTEX	<0.300	0.300	05/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/10/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2024	ND	206	103	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/09/2024	ND	192	95.9	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	05/09/2024	ND					
Surrogate: 1-Chlorooctane	91.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.1	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

PIMA ENVIROMENTAL **GIO GOMEZ** 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 05/09/2024 Reported: 05/10/2024

Project Name: THUNDERBALL CTB

Project Number: 38-1

Project Location: PERMIAN - LEA CO NM Sampling Date: 05/07/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: CS 6 (H242522-06)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2024	ND	2.09	105	2.00	0.574	
Toluene*	<0.050	0.050	05/10/2024	ND	2.06	103	2.00	4.79	
Ethylbenzene*	<0.050	0.050	05/10/2024	ND	2.08	104	2.00	4.57	
Total Xylenes*	<0.150	0.150	05/10/2024	ND	6.83	114	6.00	4.43	
Total BTEX	<0.300	0.300	05/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/10/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2024	ND	206	103	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/09/2024	ND	192	95.9	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	05/09/2024	ND					
Surrogate: 1-Chlorooctane	85.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.0	% 49.1-14	8						

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Celeg D. Freene



Analytical Results For:

PIMA ENVIROMENTAL **GIO GOMEZ** 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 05/09/2024 Reported: 05/10/2024

Project Name: THUNDERBALL CTB

Project Number: 38-1

Project Location: PERMIAN - LEA CO NM Sampling Date: 05/07/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: CS 7 (H242522-07)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2024	ND	2.09	105	2.00	0.574	
Toluene*	<0.050	0.050	05/10/2024	ND	2.06	103	2.00	4.79	
Ethylbenzene*	<0.050	0.050	05/10/2024	ND	2.08	104	2.00	4.57	
Total Xylenes*	<0.150	0.150	05/10/2024	ND	6.83	114	6.00	4.43	
Total BTEX	<0.300	0.300	05/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/10/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2024	ND	206	103	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/09/2024	ND	192	95.9	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	05/09/2024	ND					
Surrogate: 1-Chlorooctane	79.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.3	% 49.1-14	8						

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Celeg D. Freene



Analytical Results For:

PIMA ENVIROMENTAL **GIO GOMEZ** 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 05/09/2024 Reported: 05/10/2024

Project Name: THUNDERBALL CTB

Project Number: 38-1

Project Location: PERMIAN - LEA CO NM Sampling Date: 05/07/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: CS 8 (H242522-08)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2024	ND	2.09	105	2.00	0.574	
Toluene*	<0.050	0.050	05/10/2024	ND	2.06	103	2.00	4.79	
Ethylbenzene*	<0.050	0.050	05/10/2024	ND	2.08	104	2.00	4.57	
Total Xylenes*	<0.150	0.150	05/10/2024	ND	6.83	114	6.00	4.43	
Total BTEX	<0.300	0.300	05/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/10/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2024	ND	206	103	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/09/2024	ND	192	95.9	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	05/09/2024	ND					
Surrogate: 1-Chlorooctane	82.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.3	% 49.1-14	8						

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Celey D. Keene



05/07/2024

Soil

Analytical Results For:

PIMA ENVIROMENTAL GIO GOMEZ 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 05/09/2024 Sampling Date:
Reported: 05/10/2024 Sampling Type:

Project Name: THUNDERBALL CTB Sampling Condition: Cool & Intact
Project Number: 38-1 Sample Received By: Tamara Oldaker

Project Location: PERMIAN - LEA CO NM

Sample ID: CS 9 (H242522-09)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2024	ND	2.09	105	2.00	0.574	
Toluene*	<0.050	0.050	05/10/2024	ND	2.06	103	2.00	4.79	
Ethylbenzene*	<0.050	0.050	05/10/2024	ND	2.08	104	2.00	4.57	
Total Xylenes*	<0.150	0.150	05/10/2024	ND	6.83	114	6.00	4.43	
Total BTEX	<0.300	0.300	05/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/10/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2024	ND	206	103	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/09/2024	ND	192	95.9	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	05/09/2024	ND					
Surrogate: 1-Chlorooctane	66.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	67.9	% 49.1-14	8						

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Analytical Results For:

PIMA ENVIROMENTAL **GIO GOMEZ** 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 05/09/2024 Reported: 05/10/2024

Project Name: THUNDERBALL CTB

Project Number: 38-1

Project Location: PERMIAN - LEA CO NM Sampling Date: 05/07/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: CS 10 (H242522-10)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2024	ND	2.09	105	2.00	0.574	
Toluene*	<0.050	0.050	05/10/2024	ND	2.06	103	2.00	4.79	
Ethylbenzene*	<0.050	0.050	05/10/2024	ND	2.08	104	2.00	4.57	
Total Xylenes*	<0.150	0.150	05/10/2024	ND	6.83	114	6.00	4.43	
Total BTEX	<0.300	0.300	05/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/10/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2024	ND	206	103	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/09/2024	ND	192	95.9	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	05/09/2024	ND					
Surrogate: 1-Chlorooctane	85.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.6	% 49.1-14	8						

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Analytical Results For:

PIMA ENVIROMENTAL GIO GOMEZ 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 05/09/2024 Reported: 05/10/2024

Project Name: THUNDERBALL CTB

Project Number: 38-1

Project Location: PERMIAN - LEA CO NM

mg/kg

Sampling Date: 05/07/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 11 (H242522-11)

BTEX 8021B

	9/	9	7						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2024	ND	2.09	105	2.00	0.574	
Toluene*	<0.050	0.050	05/10/2024	ND	2.06	103	2.00	4.79	
Ethylbenzene*	<0.050	0.050	05/10/2024	ND	2.08	104	2.00	4.57	
Total Xylenes*	<0.150	0.150	05/10/2024	ND	6.83	114	6.00	4.43	
Total BTEX	<0.300	0.300	05/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/10/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2024	ND	206	103	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/09/2024	ND	192	95.9	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	05/09/2024	ND					
Surrogate: 1-Chlorooctane	63.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	66.5	% 49.1-14	8						

Analyzed By: MS

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Analytical Results For:

PIMA ENVIROMENTAL GIO GOMEZ 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 05/09/2024 Reported: 05/10/2024

Project Name: THUNDERBALL CTB

Project Number: 38-1

Project Location: PERMIAN - LEA CO NM

Sampling Date: 05/07/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 12 (H242522-12)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2024	ND	2.09	105	2.00	0.574	
Toluene*	<0.050	0.050	05/10/2024	ND	2.06	103	2.00	4.79	
Ethylbenzene*	<0.050	0.050	05/10/2024	ND	2.08	104	2.00	4.57	
Total Xylenes*	<0.150	0.150	05/10/2024	ND	6.83	114	6.00	4.43	
Total BTEX	<0.300	0.300	05/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/10/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2024	ND	206	103	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/09/2024	ND	192	95.9	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	05/09/2024	ND					
Surrogate: 1-Chlorooctane	66.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	66.2	% 49.1-14	8						

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

PIMA ENVIROMENTAL **GIO GOMEZ** 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 05/09/2024 Reported: 05/10/2024

Project Name: THUNDERBALL CTB

Project Number: 38-1

Project Location: PERMIAN - LEA CO NM Sampling Date: 05/07/2024

Sampling Type:

Sampling Condition: Cool & Intact Sample Received By:

Tamara Oldaker

Soil

Sample ID: CS 13 (H242522-13)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2024	ND	2.09	105	2.00	0.574	
Toluene*	<0.050	0.050	05/10/2024	ND	2.06	103	2.00	4.79	
Ethylbenzene*	<0.050	0.050	05/10/2024	ND	2.08	104	2.00	4.57	
Total Xylenes*	<0.150	0.150	05/10/2024	ND	6.83	114	6.00	4.43	
Total BTEX	<0.300	0.300	05/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/10/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2024	ND	206	103	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/09/2024	ND	192	95.9	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	05/09/2024	ND					
Surrogate: 1-Chlorooctane	73.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.1	% 49.1-14	8						

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Analytical Results For:

PIMA ENVIROMENTAL **GIO GOMEZ** 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 05/09/2024 Reported: 05/10/2024

Project Name: THUNDERBALL CTB

Project Number: 38-1

Project Location: PERMIAN - LEA CO NM Sampling Date: 05/07/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: CS 14 (H242522-14)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2024	ND	2.09	105	2.00	0.574	
Toluene*	<0.050	0.050	05/10/2024	ND	2.06	103	2.00	4.79	
Ethylbenzene*	<0.050	0.050	05/10/2024	ND	2.08	104	2.00	4.57	
Total Xylenes*	<0.150	0.150	05/10/2024	ND	6.83	114	6.00	4.43	
Total BTEX	<0.300	0.300	05/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/10/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2024	ND	206	103	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/09/2024	ND	192	95.9	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	05/09/2024	ND					
Surrogate: 1-Chlorooctane	86.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.2	% 49.1-14	8						

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05/07/2024

Soil

Analytical Results For:

PIMA ENVIROMENTAL GIO GOMEZ 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 05/09/2024 Sampling Date:
Reported: 05/10/2024 Sampling Type:

Project Name: THUNDERBALL CTB Sampling Condition: Cool & Intact
Project Number: 38-1 Sample Received By: Tamara Oldaker

Project Location: PERMIAN - LEA CO NM

Sample ID: CS 15 (H242522-15)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2024	ND	2.09	105	2.00	0.574	
Toluene*	<0.050	0.050	05/10/2024	ND	2.06	103	2.00	4.79	
Ethylbenzene*	<0.050	0.050	05/10/2024	ND	2.08	104	2.00	4.57	
Total Xylenes*	<0.150	0.150	05/10/2024	ND	6.83	114	6.00	4.43	
Total BTEX	<0.300	0.300	05/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/10/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2024	ND	206	103	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/09/2024	ND	192	95.9	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	05/09/2024	ND					
Surrogate: 1-Chlorooctane	72.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	74.7	% 49.1-14	8						

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Analytical Results For:

PIMA ENVIROMENTAL GIO GOMEZ 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 05/09/2024 Reported: 05/10/2024

Project Name: THUNDERBALL CTB

Project Number: 38-1

Project Location: PERMIAN - LEA CO NM

Sampling Date: 05/07/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 16 (H242522-16)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2024	ND	2.09	105	2.00	0.574	
Toluene*	<0.050	0.050	05/10/2024	ND	2.06	103	2.00	4.79	
Ethylbenzene*	<0.050	0.050	05/10/2024	ND	2.08	104	2.00	4.57	
Total Xylenes*	<0.150	0.150	05/10/2024	ND	6.83	114	6.00	4.43	
Total BTEX	<0.300	0.300	05/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/10/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2024	ND	206	103	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/10/2024	ND	192	95.9	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	05/10/2024	ND					
Surrogate: 1-Chlorooctane	85.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.9	% 49.1-14	8						

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Analytical Results For:

PIMA ENVIROMENTAL GIO GOMEZ 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 05/09/2024 Sampling Date: 05/07/2024

Reported: 05/10/2024 Sampling Type: Soil
Project Name: THUNDERBALL CTB Sampling Condition: Cool & Intact

Project Number: 38-1 Sample Received By: Tamara Oldaker
Project Location: PERMIAN - LEA CO NM

Sample ID: CS 17 (H242522-17)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2024	ND	2.09	105	2.00	0.574	
Toluene*	<0.050	0.050	05/10/2024	ND	2.06	103	2.00	4.79	
Ethylbenzene*	<0.050	0.050	05/10/2024	ND	2.08	104	2.00	4.57	
Total Xylenes*	<0.150	0.150	05/10/2024	ND	6.83	114	6.00	4.43	
Total BTEX	<0.300	0.300	05/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/10/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2024	ND	206	103	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/10/2024	ND	192	95.9	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	05/10/2024	ND					
Surrogate: 1-Chlorooctane	74.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.8	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

PIMA ENVIROMENTAL GIO GOMEZ 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 05/09/2024 Reported: 05/10/2024

Project Name: THUNDERBALL CTB

Project Number: 38-1

Project Location: PERMIAN - LEA CO NM

mg/kg

Sampling Date: 05/07/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 19 (H242522-19)

BTEX 8021B

DILX GOZID	11197	ng .	Allulyzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2024	ND	2.09	105	2.00	0.574	
Toluene*	<0.050	0.050	05/10/2024	ND	2.06	103	2.00	4.79	
Ethylbenzene*	<0.050	0.050	05/10/2024	ND	2.08	104	2.00	4.57	
Total Xylenes*	<0.150	0.150	05/10/2024	ND	6.83	114	6.00	4.43	
Total BTEX	<0.300	0.300	05/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/10/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2024	ND	206	103	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/10/2024	ND	192	95.9	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	05/10/2024	ND					
Surrogate: 1-Chlorooctane	72.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.5	% 49.1-14	8						

Analyzed By: MS

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Celey D. Keene



Analytical Results For:

PIMA ENVIROMENTAL GIO GOMEZ 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 05/09/2024 Reported: 05/10/2024

THUNDERBALL CTB

Project Name: THUI Project Number: 38-1

Project Location: PERMIAN - LEA CO NM

Sampling Date: 05/07/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 20 (H242522-20)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2024	ND	2.09	105	2.00	0.574	
Toluene*	<0.050	0.050	05/10/2024	ND	2.06	103	2.00	4.79	
Ethylbenzene*	< 0.050	0.050	05/10/2024	ND	2.08	104	2.00	4.57	
Total Xylenes*	<0.150	0.150	05/10/2024	ND	6.83	114	6.00	4.43	
Total BTEX	<0.300	0.300	05/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/10/2024	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2024	ND	206	103	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/10/2024	ND	192	95.9	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	05/10/2024	ND					
Surrogate: 1-Chlorooctane	86.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.5	% 49.1-14	8						

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Celey D. Keine



Sample Received By:

05/07/2024

Tamara Oldaker

Analytical Results For:

PIMA ENVIROMENTAL GIO GOMEZ 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 05/09/2024 Sampling Date:

Reported: 05/10/2024 Sampling Type: Soil
Project Name: THUNDERBALL CTB Sampling Condition: Cool & Intact

Project Number: 38-1

Project Location: PERMIAN - LEA CO NM

Sample ID: CS 21 (H242522-21)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2024	ND	2.07	103	2.00	0.0440	
Toluene*	<0.050	0.050	05/10/2024	ND	2.05	102	2.00	0.352	
Ethylbenzene*	<0.050	0.050	05/10/2024	ND	2.01	100	2.00	0.570	
Total Xylenes*	<0.150	0.150	05/10/2024	ND	5.87	97.8	6.00	0.626	
Total BTEX	<0.300	0.300	05/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	83.9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/10/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2024	ND	206	103	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/10/2024	ND	192	95.9	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	05/10/2024	ND					
Surrogate: 1-Chlorooctane	71.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	72.2	% 49.1-14	8						

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Celey D. Keine



Sample Received By:

05/07/2024

Tamara Oldaker

Analytical Results For:

PIMA ENVIROMENTAL GIO GOMEZ 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 05/09/2024 Sampling Date: Reported: 05/10/2024 Sampling Type:

mg/kg

Reported: 05/10/2024 Sampling Type: Soil
Project Name: THUNDERBALL CTB Sampling Condition: Cool & Intact

Project Number: 38-1

Project Location: PERMIAN - LEA CO NM

Sample ID: CSW 1 (H242522-22)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	u by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2024	ND	2.07	103	2.00	0.0440	
Toluene*	<0.050	0.050	05/10/2024	ND	2.05	102	2.00	0.352	
Ethylbenzene*	<0.050	0.050	05/10/2024	ND	2.01	100	2.00	0.570	
Total Xylenes*	<0.150	0.150	05/10/2024	ND	5.87	97.8	6.00	0.626	
Total BTEX	<0.300	0.300	05/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	83.7	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/10/2024	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2024	ND	186	92.8	200	2.33	
DRO >C10-C28*	<10.0	10.0	05/10/2024	ND	172	85.8	200	7.23	
EXT DRO >C28-C36	<10.0	10.0	05/10/2024	ND					
Surrogate: 1-Chlorooctane	84.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.3	% 49.1-14	8						

Analyzed By: MS

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Keene

Released to Imaging: 5/20/2024 3:45:17 PM



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

ompany Name: Pima Environmental Services	BILL TO	ANALYSIS PEGLISON
roject Manager: Gio Gomez	P.O. #;	ANALYSIS REQUEST
ddress: 5614 N. Lovington Hwy	company: Permiun Resources	
ity: Hobbs State: NM zin: 88240	Attn:	
none #: 575-964-7740 Fax #:		
oject #: 38-1 Project Owner: Permian Reso	Address:	
oject Name: Thunder hill CTR		
oject Name: Thunder ball CTB oject Location: Lea County, NM. mpler Name: Marisa Loya	State: Zip:	
mpler Name: Marisa Isula	Phone #:	
AR LAB USE ONLY	Fax #:	
MATRI	PRESERV. SAMPLING	
(G)RAB OR (C)OMF # CONTAINERS GROUNDWATER WASTEWATER SOIL	ACIDIDASE: ICE / COOL OTHER: BTEL BTEL CMUNICH	
(S)	X 517/24 9:00 X X X	
2 C52	9:07	
3 C53	9:16	
4 (54)	9:22	
5 C55	9:36	
6 CS6	9:45	
7 (5)	9:56	
8 CS8	9:59	
g csg	10:1)	
10 CS10	t or tort, shall be limited to the amount paid by the client for the	

Relinquished By: Relinquished By: Relinquished By:	Date: Received By: Received By: Received By: Received By: Date: Received By: Re	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: † Cardinal cannot accept verba	Sample Condition CHECKED BY: Cool Intact	

Released to Imaging: 5/20/2024 3:45:17 P.M.



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

Dompany Nam	e: Pima Environmental S	Service	es				П		L	3/L	L TO		1				ΔN	ALYS	IC D	EOL	ECT			
	er: Gio Gomez							P.O.					T	T	T		AIN	T	I R		E21	_	_	
Address: 56	14 N. Lovington Hwy						1	Con	nany	Des	mian	Resoura	1											
city: Hobb	S State:	NM zi	p: 8	3824	40			Attn		ICI	man	Lesaura	9											
Phone #: 575	-964-7740 Fax #:		p. ,	-			_						1											1
Project #: 2	8-1 Project	Dwnor Do	-11	in t	7~	1000		Add	ress:				1			1								
Project Name:	Thunderball CTB	Jwner.je	Tin	py i	S	µI (e	- 1						1											
Project Location	n: 120 County MINA							State		Z	ip:		1											
Sampler Name	n: Lea County, NM Marisa Loya	,					-		ne #:															
FOR LAB USE ONLY	I will be boyou	_	_	_		TRI		ax		_]											
		<u>a</u> :	1		MA	TRIX		P	RESER	٧.	SAMPL	ING			1	2								
Lab I.D.		(G)RAB OR (C)OA	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	ACID/BASE	ICE/COOL	OTHER	DATE	TIME	Hdi	BTEV	Chilan	016000								
12	CSII				X				X		17/24	10:26	X	X	V								_	
13	CSIZ		Ш		í)		1	10:33	1	1	1									
14	C5 15	_	Ш		1							10:45												
15	CS14	_	Ш		1							10:52												
16	CS 15	_	Н	1	1			1				11:06												
17	CS 16 CS 17	_	Ц		1)							11:12												
18	65/5	-			1							11:31												
14	25 17				#			+				11:45	-			2	len	200	201	10	hu	10,	esto	2403
20	CS 19				1							11:58				1	1	1			10	u	2	0
	d Damages. Cardinal's liability and client's exclusive reme				1							12:00											-	5/

Relinquished By: Carime Adame Relinquished By:	Date: Received By: Date: Received By: Phone Result: Yes No Add'l Phone #: Fax Result: Yes No Add'l Fax #: REMARKS: Push But Add But	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Time: Sample Condition CHECKED BY: Cool Intact (Initials) Pyes Pyes No No No	



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

Address: 5614 N. Lovington Hwy City: Hobbs State: NM zip: 88240 Attn: Address: Project #: 38-1 Project Owner: Permian Resources City: Address: Project Name: Thungerball CTB State: zip: Project Location: Lea County, NIN, Phone #: For LAB USE ONLY Lab I.D. Sample I.D. Sample I.D. ANALTSIS REQUEST Address: Address: Project Owner: Permian Resources Attn: Address: Project Owner: Permian Resources Attn: Address: Project Owner: Permian Resources Attn: Address: Project Name: Thungerball CTB State: zip: Phone #: Fax #: For Lab Use ONLY Lab I.D. Sample I.D. Sample I.D.	Company Name: Pima Environmental Services Project Manager: Gio Gomez		BILL TO ANALYSIS REQUEST							
City: HODDS State: NM zip: 88240 Attn: Phone #: 575-964-7740 Fax #: Project Owner: Reymian Resource City: Project Name: Thunder MI CTB State: zip: Phone #: Project Location: Lea County, NN, Sample Name: Marisa Loya For Lab use Only Lab I.D. Sample I.D. Sample I.D. State: zip: Phone #: Fax #: MATRIX MATRIX MATRIX PRESERV. SAMPLING MATRIX PRESERV. SAMPLING Lab I.D. Sample I.D. State: zip: Phone #: Fax #: DATE TIME Lab I.D. Sample I.D. S	Add FC44 N. J. C.			ANALYSIS REQUEST						
Project Warne: Project Owner: Projec	City: HODDS State: NM Zin: 88	240								
Project Name: Thunder all CTB State: Zip: Project Location: La County, NN, Sampler Name: Marisa Loya For Lab U.D. Sample I.D. Sampl	- C	0	Address:	1						
Lab I.D. Sample I.D. Sample I.D. Sample I.D. MATRIX PRESERV. SAMPLING # CONTAINERS SOIL CS C1 CS C2 CS C5	Project Name: Thum berhall CTD			1						
Lab I.D. Sample I.D. Sample I.D. Sample I.D. MATRIX PRESERV. SAMPLING # CONTAINERS TIME TIME TIME TO CE COLUMN TO CE CO	Project Location: Lea County, NIVI.		Lip.	4						
Lab I.D. Sample I.D. Sample I.D. Sample I.D. MATRIX PRESERV. SAMPLING # CONTAINERS TIME TIME TIME TO CE COM TO CE CE CE TO CE CE CE TO CE	ampler Name: Marish Loyh									
Lab I.D. Sample I.D. ## CONTAINERS SOIL C2521 C27 C27 C27 C27 C27 C27 C27 C	FOR LAB USE ONLY									
	CI CS21	X	X 5/1/24 12:07	X X X X X X X X X X X X X X X X X X X						
ASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the	ISF NOTE: LinkStrand C									

Relinquished By:	mance of services hereunder by Cardinal, regardless of whigher such claim is based upon any of the above stated reasons or otherwise. Date: 3
Relinquished By:	Date: Received By: Filme: Public Adults Filme: Publ
Delivered By: (Circle One)	#146 Sample Condition CHECKED BY:
Sampler - UPS - Bus - Other: † Cardinal cannot accept verb	-8.1° Cool Intact (Initials) Res Tyes Yes Sources Final changes, Please fax written changes to (575) 202 2020



May 10, 2024

GIO GOMEZ
PIMA ENVIROMENTAL
1601 N TURNER STE. 500
HOBBS, NM 88240

RE: THUNDERBALL CTB

Enclosed are the results of analyses for samples received by the laboratory on 05/09/24 16:01.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

PIMA ENVIROMENTAL GIO GOMEZ 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 05/09/2024 Reported: 05/10/2024

Project Name: THUNDERBALL CTB

Project Number: 38-1

Project Location: PERMIAN - LEA CO NM

ma/ka

Sampling Date: 05/07/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 18 (H242538-01)

DTEV 0021D

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2024	ND	2.07	103	2.00	0.0440	
Toluene*	<0.050	0.050	05/10/2024	ND	2.05	102	2.00	0.352	
Ethylbenzene*	<0.050	0.050	05/10/2024	ND	2.01	100	2.00	0.570	
Total Xylenes*	<0.150	0.150	05/10/2024	ND	5.87	97.8	6.00	0.626	
Total BTEX	<0.300	0.300	05/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	84.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/10/2024	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2024	ND	186	92.8	200	2.33	
DRO >C10-C28*	<10.0	10.0	05/09/2024	ND	172	85.8	200	7.23	
EXT DRO >C28-C36	<10.0	10.0	05/09/2024	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

Applymed By MC

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Notes and Definitions

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

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

(575) 393-2326 FAX (575) 393-2476 Company Name: Pima Environmental Services					E	BILL TO ANALYSIS REQUEST													
							P.O. #:							T				T	
									Per	mianle	Sources								
city: Hobbs		M Zip	: 8	824	0		Attn		101		00	1					1		
Phone #: 575-9							Add	ress:				1							
Project # 38	- Project Ow	ner:Pe	rn	nai	1 Res	oura	City	:											
Project Name:	Thunderball CTB: Lea County, NM.			,			State		Z	ip:		1							
Project Location	: Lea County, NM.						Phone #:		none #:		1								
Sampler Name:	Meriza Lova						Fax #:					1							
FOR LAB USE ONLY			П		MATE	RIX	P	RESER	v.	SAMPLIN	NG	1		2					
Lab I.D. H242538	Sample I.D.	(C) (G)RAB OR (C)OM	# CONTAINERS	GROUNDWATER	N SOIL	SLUDGE	OTHER:	X ICE / COOL	OTHEK	DATE 317/24	TIME]1:45	去二天	* BTEX	XChloria					
	d Damages. Cardinal's liability and client's exclusive remed										the the effect for	V Pa							

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use or loss of profits incidental or consequental damages, including viting the contract or consequents.

Relinquished By:	Date:	Received By:		Phone Result: □ Yes □ No Add'l Phone #: Fax Result: □ Yes □ No Add'l Fax #:
larine tome	1961-24 1961	apares		REMARKS: DUSHI 24 hrs
Relinquished By:	Date:	Received By:		positi 21115
	Time:			- 11 . 0 0
Delivered By: (Circle One) _2	u,	Sample Condition Cool Intact	CHECKED BY: (Initials)	Dill to Younging Vosaumos
Sampler - UPS - Bus - Other:	0	Yes Yes	AP	Dillio lellular resporces

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

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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 345196

QUESTIONS

Operator:	OGRID:					
Earthstone Operating, LLC	331165					
300 N. Marienfeld St Ste 1000	Action Number:					
Midland, TX 79701	345196					
	Action Type:					
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)					

QUESTIONS

Prerequisites						
Incident ID (n#)	nAPP2412321969					
Incident Name	NAPP2412321969 THUNDERBALL CTB @ 30-025-50427					
Incident Type	Fire					
Incident Status	Remediation Closure Report Received					
Incident Well	[30-025-50427] THUNDERBALL FEDERAL COM #223H					

Location of Release Source						
Please answer all the questions in this group.						
Site Name Thunderball CTB						
Date Release Discovered	02/15/2024					
Surface Owner	Federal					

Incident Details						
Please answer all the questions in this group.						
Incident Type	Fire					
Did this release result in a fire or is the result of a fire	Yes					
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 Other (Specify) Crude Oil Released: 2 BBL Recovered: 0 BBL Lost: 2 BBL.							
Produced Water Released (bbls) Details	Not answered.							
Is the concentration of chloride in the produced water >10,000 mg/l	No							
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)	Release happened at flare.							

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QUESTIONS, Page 2

Action 345196

QUESTIONS ((continued)

Operator:	OGRID:
Earthstone Operating, LLC	331165
300 N. Marienfeld St Ste 1000	Action Number:
Midland, TX 79701	345196
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	More info needed to determine if this will be treated as a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (2) an unauthorized release of a volume that: (a) results in a fire or is the result of a fire.
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.

Name: Montgomery Floyd
Title: Environmental Manager
Email: montgomery.floyd@permianres.com
Date: 05/16/2024

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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, Page 3

Action 345196

QUESTIONS (continued)

Operator:	OGRID:
Earthstone Operating, LLC	331165
300 N. Marienfeld St Ste 1000	Action Number:
Midland, TX 79701	345196
	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)	Between 26 and 50 (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
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 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	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	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 contaminat	tion 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)	80
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0.1
GRO+DRO (EPA SW-846 Method 8015M)	0
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 complewhich includes the anticipated timelines for beginning and completing the remediation.	eted efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
On what estimated date will the remediation commence	05/07/2024
On what date will (or did) the final sampling or liner inspection occur	05/07/2024
On what date will (or was) the remediation complete(d)	05/14/2024
What is the estimated surface area (in square feet) that will be reclaimed	4200
What is the estimated volume (in cubic yards) that will be reclaimed	77
What is the estimated surface area (in square feet) that will be remediated	4200
What is the estimated volume (in cubic yards) that will be remediated	77
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	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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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS, Page 4

Action 345196

QUESTIONS (continued)

Operator:	OGRID:
Earthstone Operating, LLC	331165
300 N. Marienfeld St Ste 1000	Action Number:
Midland, TX 79701	345196
	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 off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site 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: Montgomery Floyd Title: Environmental Manager Email: montgomery.floyd@permianres.com

Date: 05/16/2024

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 345196

QUESTIONS (continued)

Operator:	OGRID:
Earthstone Operating, LLC	331165
300 N. Marienfeld St Ste 1000	Action Number:
Midland, TX 79701	345196
	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 345196

QUESTIONS (continued)

Operator:	OGRID:
Earthstone Operating, LLC	331165
300 N. Marienfeld St Ste 1000	Action Number:
Midland, TX 79701	345196
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	340696
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/07/2024
What was the (estimated) number of samples that were to be gathered	22
What was the sampling surface area in square feet	4400

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	4200		
What was the total volume (cubic yards) remediated	77		
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	4200		
What was the total volume (in cubic yards) reclaimed	77		
Summarize any additional remediation activities not included by answers (above)	Dig & Haul; see attached 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.

Name: Montgomery Floyd
Title: Environmental Manager
Email: montgomery.floyd@permianres.com
Date: 05/16/2024

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QUESTIONS, Page 7

Action 345196

QUESTIONS (continued)

Operator:	OGRID:
Earthstone Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	331165
	Action Number: 345196
	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 345196

CONDITIONS

Operator:	OGRID:
Earthstone Operating, LLC	331165
300 N. Marienfeld St Ste 1000	Action Number:
Midland, TX 79701	345196
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created E	y Condition	Condition Date
rhamle	We have received your Remediation Closure Report for Incident #NAPP2412321969 THUNDERBALL CTB, thank you. This Remediation Closure Report is approved.	5/20/2024