



CLOSURE REPORT

Property:

Marathon Battle 1-2 Battery

**S34, T21S, R33E
32.442317 N, 103.553149 W
Lea County, New Mexico
NMOCD Incident ID: nAPP2301754624**

March 20, 2023
Ensolum Project No. 03A2040006

Prepared for:

**Enterprise Field Services, LLC
PO Box 4324
Houston, TX 77210**

Attn: Christopher Spore, P.G.

Prepared by:


Beaux Jennings
Senior Project Manager

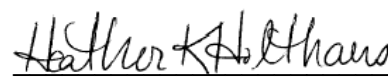

Heather Holthaus
Senior Project Manager



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CLOSURE REPORT

Marathon Battle 1-2 Battery

S34, T21S, R33E
32.442317 N, 103.553149 W
Lea County, New Mexico
NMOCD Incident ID: nAPP2301754624

Ensolum Project No. 03A2040006

1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC (Enterprise)
Site Name:	Marathon Battle 1-2 Battery
Location:	Section 34, Township 21 South, Range 33 East 32.442317 N, 103.553149 W Lea County, New Mexico
Property:	Marathon Oil Permian LLC
Regulatory:	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On January 17, 2023 a crude oil release occurred due to an overfill of a transport truck as a result of human error. Approximately 31 barrels (bbls) of crude oil were released, contacting the ground surface impacting an area approximately 95 feet long by 45 feet wide, with 0 bbls recovered. Enterprise reported the release to the New Mexico EMNRD OCD through the online notice of release (NOR) form on January 17, 2023. The release was assigned Incident Number nAPP2301754624.

The **Topographic Map** depicting the location of the Site is included as **Figure 1**, and the **Site Vicinity Map** is included as **Figure 2** in **Appendix A**.

1.2 Project Objective

The primary objective of the closure activities was to reduce constituent of concern (COC) concentrations in the on-Site soils to below the applicable New Mexico EMNRD OCD closure criteria concentrations.

2.0 CLOSURE CRITERIA

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. In order to address activities related to exempt oil and gas releases, the New Mexico EMNRD OCD references New Mexico Administrative Code (NMAC) 19.15.29 *Releases*, which establishes investigation and abatement action requirements for sites subject to reporting and/or corrective action. Ensolum, LLC (Ensolum) utilized information provided by Enterprise, the general site characteristics, and information available from the New Mexico Office of the State Engineer (OSE) and the New Mexico EMNRD OCD Imaging database to determine the appropriate closure criteria for the Site. Supporting documentation and figures associated with the following bullets are provided in **Appendix B**. One exploratory water well was identified adjacent west to the Site on the OSE Water Rights Reporting System (WRRS) database.



Closure Report
Marathon Battle 1-2 Battery

March 8, 2023
Page 2

- The Site is not located within 300 feet of a New Mexico ENMRD OCD-defined continuously flowing watercourse or significant watercourse.
- The Site is not located within 200 feet of a lakebed, sinkhole or playa lake.
- The Site is not located within 300 feet from a permanent residence, school, hospital, institution or church.
- According to the OSE WRSS database there are no private, domestic freshwater wells used by less than five (5) households for domestic or stock water purposes identified within 500 feet of the Site. However; there is one exploratory water well, CP-01411-POD1, located west-adjacent to the pad of the Site. The use of the exploratory water well is not listed.
- According to the OSE WRSS database there is one fresh water well identified within 1,000 feet of the Site. The exploratory water well, CP-01411-POD1, is located west-adjacent to the pad of the Site. The total depth of the well is 1,149 feet below ground surface (bgs), recorded as an artesian well with the water bearing unit recorded at 800 feet bgs.
- The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3.
- The Site is not located within 300 feet of a wetland.
- Based on information identified on the New Mexico Mining and Minerals Division's GIS, Maps and Mine Data database, the Site is not located within an area overlying a subsurface mine.
- The Site is not located within an unstable area.
- The Site is not located within a 100-year floodplain.

Based on the identified siting criteria, cleanup goals for soils remaining in place at the Site include:

Closure Criteria for Soils Impacted by a Release			
Minimum depth below any point within horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Method	Limit
≤ 50 feet	Chloride	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

3.0 SOIL REMEDIATION ACTIVITIES

On January 17, 2023 a crude oil release occurred due to an overfill of a transport truck as a result of human error. Approximately 31 bbls of crude oil were released, contacting the ground surface impacting an area approximately 95 feet long by 45 feet wide, with 0 bbls recovered. Initial response actions included the removal of saturated soils from the surface area. On February 1 and 2, 2023 corrective action activities were conducted by Wescom Inc. (Wescom) utilizing a backhoe to excavate soils from the release area, while Ensolum provided environmental consulting support.

The final impacted area measured approximately 95 feet long and 45 feet wide at the maximum extents.

The lithology encountered during the completion of closure activities consisted primarily of unconsolidated silty sand and caliche.

A total of approximately 180 cubic yards of petroleum hydrocarbon affected soils were transported to the R360 Environmental Solutions facility in Carlsbad, New Mexico for disposal/remediation. Copies of the disposal documentation are provided in **Appendix G**. The excavation was backfilled with imported fill then contoured to surrounding grade.

Figure 3 is a map that identifies approximate soil sample locations and depicts the approximate dimensions of the excavation with respect to the pipeline (**Appendix A**). Photographic documentation of the field activities is included in **Appendix C**.

4.0 SOIL SAMPLING PROGRAM

Ensolum's soil sampling program on February 2 and 7, 2023 included the collection of a total of 11 composite confirmation soil samples from 10 locations on the excavation floor (FS-1 through FS-10), and three composite confirmation soil samples from three locations on the excavation sidewalls (SW-1, SW-2 and SW-3) from the excavation of the impacted area for laboratory analysis.

The composite soil samples were collected and placed in laboratory prepared glassware, labeled/sealed using laboratory supplied labels and custody seals, and stored on ice in a cooler. The samples were relinquished to Eurofins Midland laboratory in Midland, TX and/or Eurofins Carlsbad laboratory in Carlsbad, New Mexico, under proper chain-of-custody procedures.

5.0 SOIL LABORATORY ANALYTICAL METHODS

The confirmation soil samples were analyzed for benzene, toluene, ethylbenzene and total xylenes (BTEX) using Environmental Protection Agency (EPA) SW-846 Method 8021B, total petroleum hydrocarbon (TPH) gasoline range organics (GRO), diesel range organics (DRO), and motor oil/lube oil range organics (MRO) using EPA SW-846 Method 8015M, and chloride using EPA Method 300.0.

Laboratory analytical results are summarized in **Table 1** in **Appendix D**. The executed chain-of-custody forms and laboratory data sheets are provided in **Appendix E**.

6.0 DATA EVALUATION

Ensolum compared the BTEX, TPH GRO/DRO/MRO, and chloride concentrations or laboratory sample detection limits (SDLs) associated with the composite soil samples (FS-1 through FS-10 and SW-1 through SW-3) remaining in place to the New Mexico EMNRD OCD closure criteria.

- Laboratory analytical results indicate benzene concentrations for soils remaining in place do not exceed the laboratory SDLs or the New Mexico EMNRD OCD closure criteria of 10 milligrams per kilogram (mg/kg).

- Laboratory analytical results indicate that total BTEX concentrations for soils remaining in place do not exceed the laboratory SDLs or the New Mexico EMNRD OCD closure criteria of 50 mg/kg.
- Laboratory analytical results indicate combined TPH GRO/DRO/MRO concentrations for soils remaining in place do not exceed the New Mexico EMNRD OCD closure criteria of 100 mg/kg.
- Laboratory final analytical results indicate chloride concentrations for soils remaining in place do not exceed the New Mexico EMNRD OCD closure criteria of 600 mg/kg.

Laboratory analytical results are summarized in **Table 1** in **Appendix D**.

7.0 RECLAMATION AND RE-VEGETATION

The impacted area was backfilled and then contoured to the surrounding grade. The release area is located inside an active station; therefore the backfilled excavation area was compacted in order to minimize dust and erosion.

8.0 FINDINGS AND RECOMMENDATION

- On January 17, 2023 a crude oil release occurred due to an overfill of a transport truck due to human error. Approximately 31 bbls of crude oil were released, contacting the ground surface impacting an area approximately 95 feet long by 45 feet wide, with 0 bbls recovered.
- The primary objective of the closure activities was to reduce COC concentrations in the on-Site soils to below the applicable New Mexico EMNRD OCD closure criteria using the New Mexico EMNRD OCD's NMAC 19.15.29 *Releases* as guidance.
- On February 2 and 7, 2023, a total of 11 composite confirmation soil samples from 10 locations on the excavation floor (FS-1 through FS-10), and three composite confirmation soil samples from three location on the excavation sidewalls (SW-1, SW-2 and SW-3) were collected from the impacted area. Based on the final soil analytical results, soils remaining in place do not exhibit COC concentrations above the applicable New Mexico EMNRD OCD closure criteria.
- A total of approximately 180 cubic yards of petroleum hydrocarbon affected soils were transported to the R360 Environmental Solutions facility in Carlsbad, New Mexico for disposal/remediation. The excavation was backfilled with imported fill then contoured to surrounding grade.

Based on field observations and laboratory analytical results, no additional investigation or corrective action appears warranted at this time.

9.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

9.1 Standard of Care

Ensolum's services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Ensolum makes no warranties, express or implied, as to the services performed hereunder. Additionally, Ensolum does not warrant the work of third parties supplying information used in the report (e.g. laboratories, regulatory agencies, or other third parties). This scope of services was performed in accordance with the scope of work agreed with the client, as detailed in our proposal.

9.2 Limitations

Findings, conclusions, and recommendations resulting from these services are based upon information derived from the on-site activities and other services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Ensolum cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during the investigation. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Ensolum's findings, and recommendations are based solely upon data available to Ensolum at the time of these services.

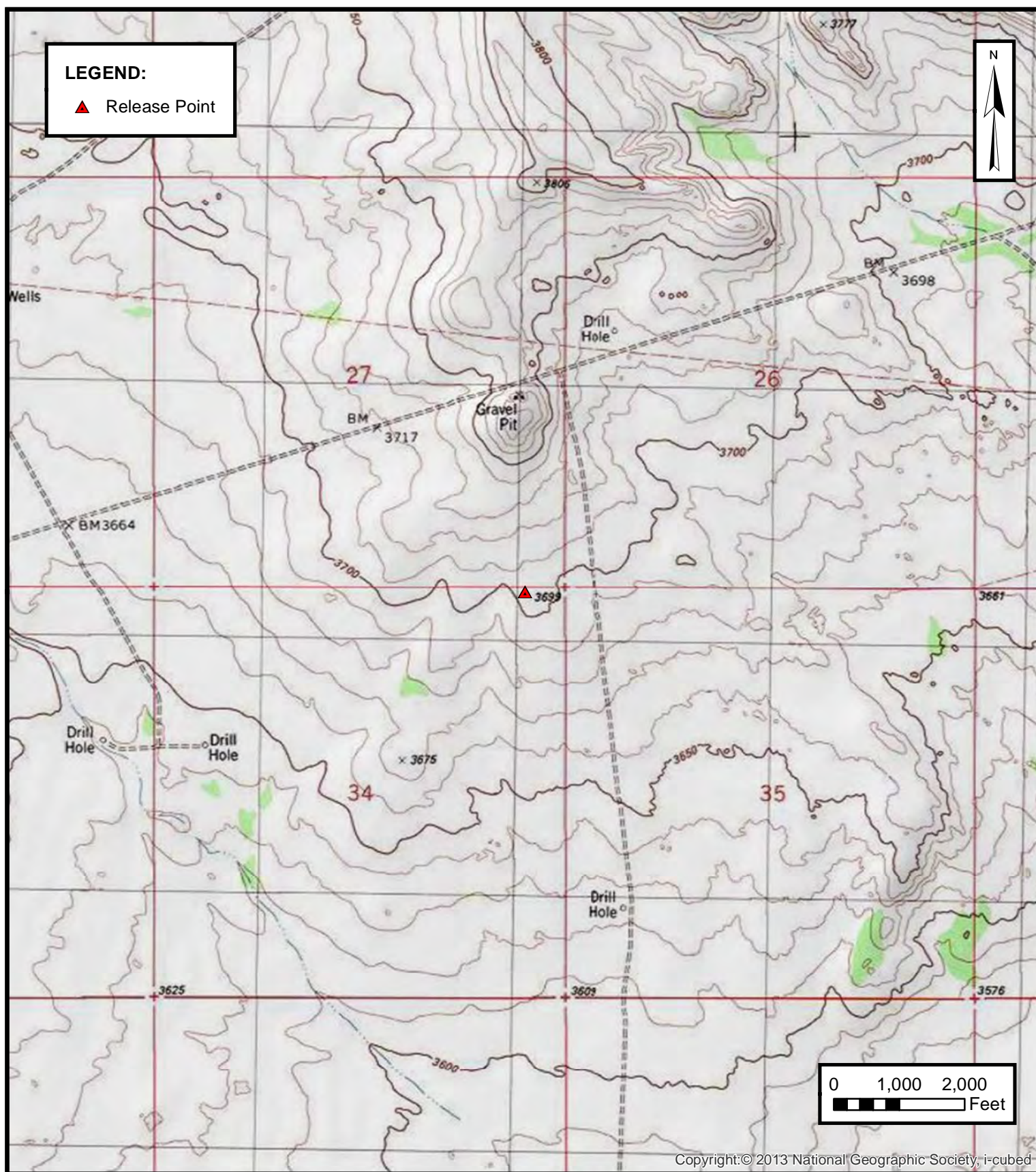
9.3 Reliance

This report has been prepared for the exclusive use of Enterprise Crude Pipeline, LLC, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization Enterprise Transportation Company, LLC and Ensolum. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the Closure Report, and Ensolum's Master Services Agreement. The limitation of liability defined in the agreement is the aggregate limit of Ensolum's liability to the client.



APPENDIX A

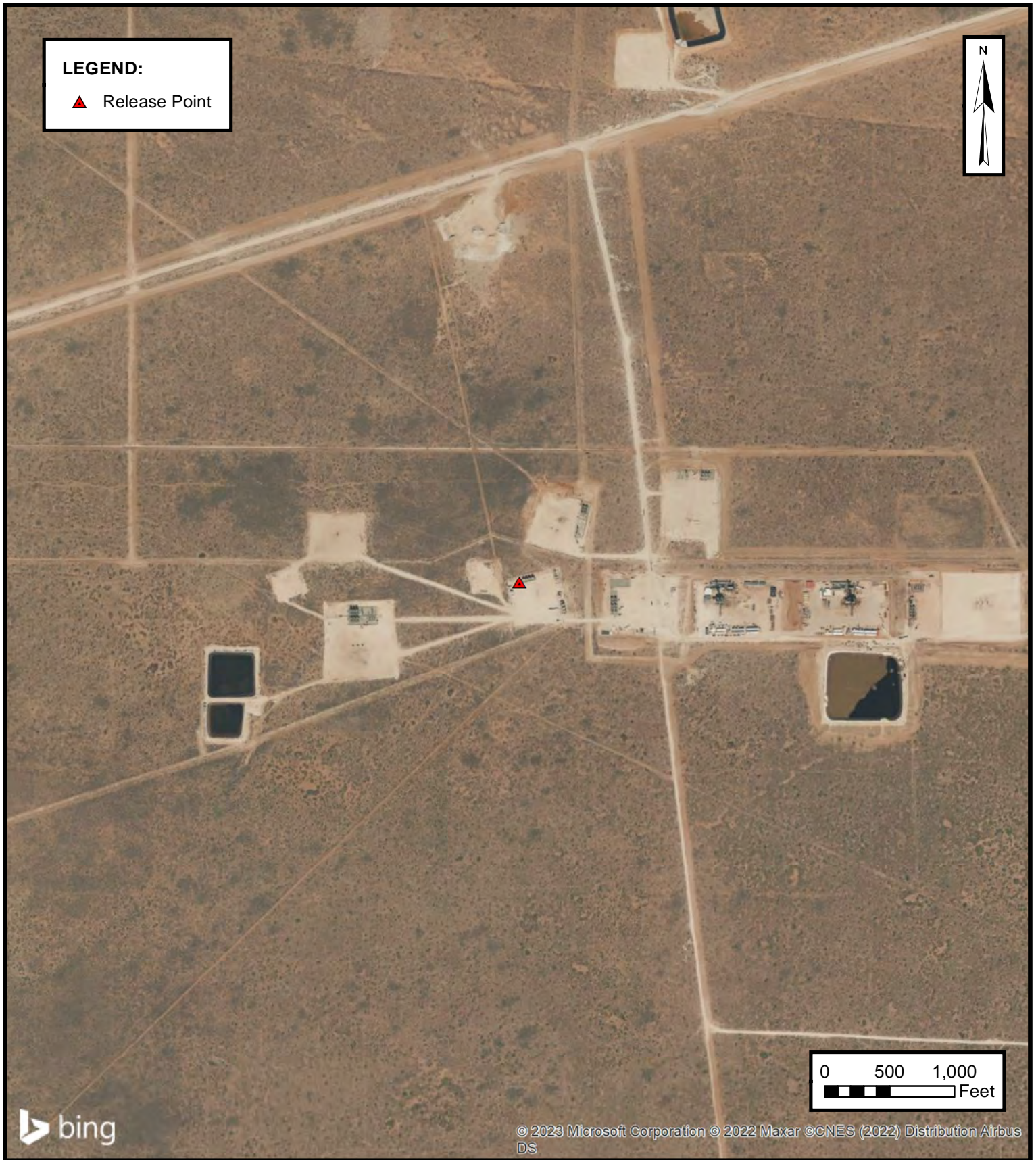
Figures

**TOPOGRAPHIC MAP**

ENTERPRISE FIELD SERVICES, LLC
MARATHON BATTLE 1-2 BATTERY
Sec 34, T21S, R33E, Lea County, New Mexico
32.442317° N, 103.553149° W

PROJECT NUMBER: 03A2040006

FIGURE**1**



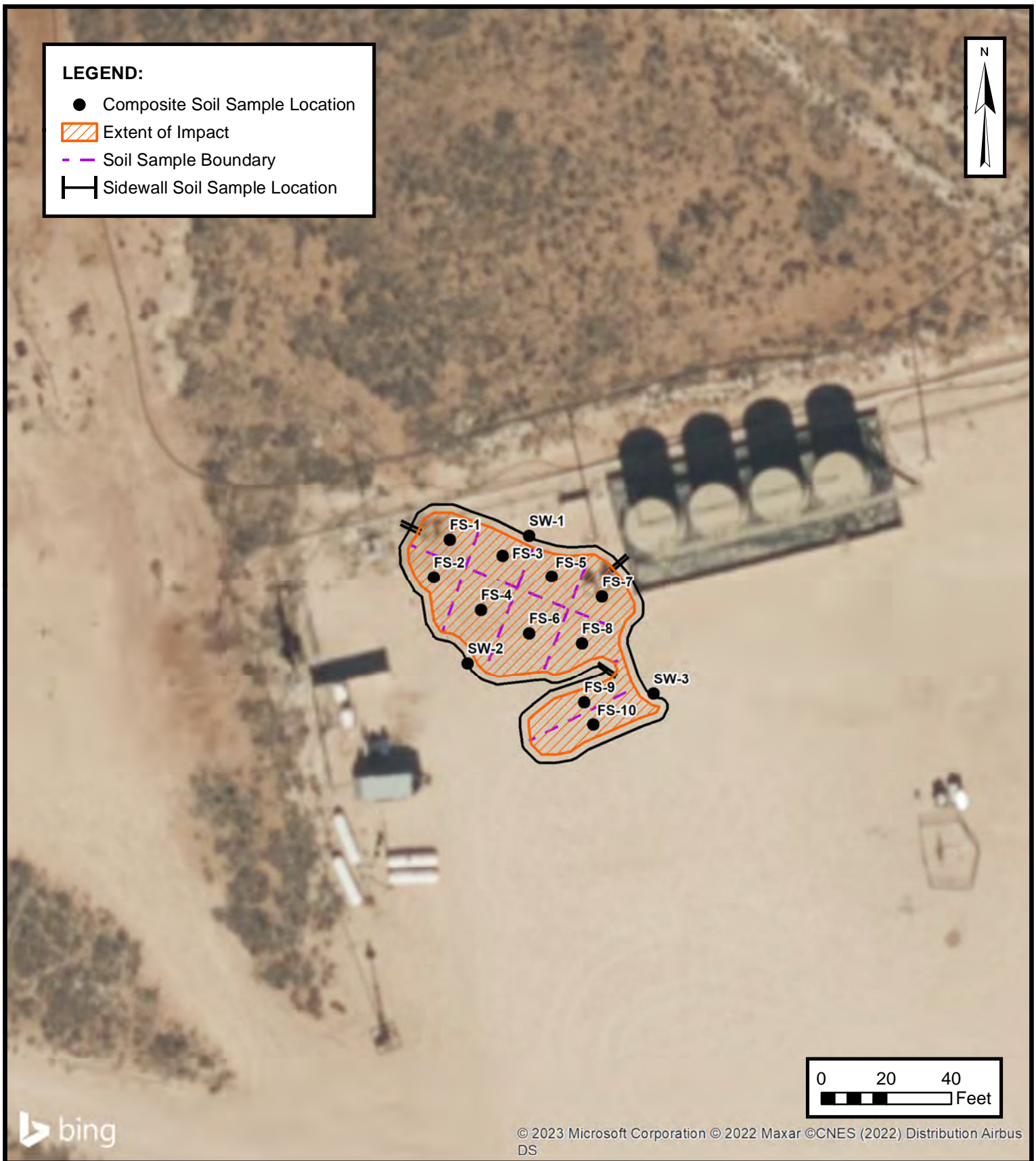
SITE VICINITY MAP

ENTERPRISE FIELD SERVICES, LLC
MARATHON BATTLE 1-2 BATTERY
Sec 34, T21S, R33E, Lea County, New Mexico
32.442317° N, 103.553149° W

PROJECT NUMBER: 03A2040006

FIGURE

2



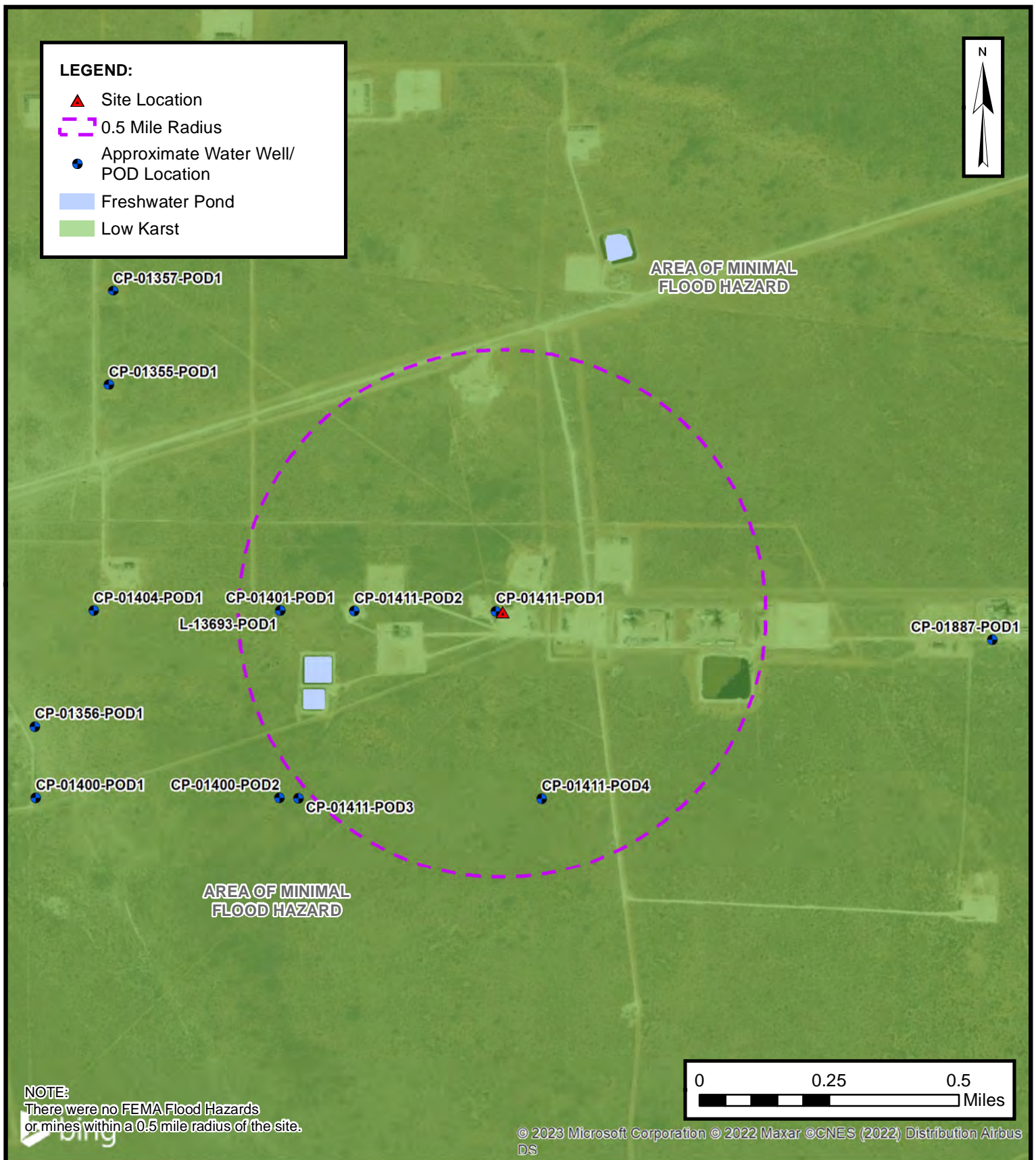
SITE MAP

ENTERPRISE FIELD SERVICES, LLC
MARATHON BATTLE 1-2 BATTERY
Sec 34, T21S, R33E, Lea County, New Mexico
32.442317° N, 103.553149° W

PROJECT NUMBER: 03A2040006

FIGURE

3



CLOSURE CRITERIA MAP

ENTERPRISE FIELD SERVICES, LLC
MARATHON BATTLE 1-2 BATTERY
Sec 34, T21S, R33E, Lea County, New Mexico
32.442317° N, 103.553149° W

PROJECT NUMBER: 03A2040006

FIGURE

4



APPENDIX B

Supporting Documentation

Beaux Jennings

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Friday, January 20, 2023 2:13 PM
To: Beaux Jennings
Cc: Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD
Subject: RE: [EXTERNAL] W23-004 ETC Marathon Battle 1-2 (Incident ID# nAPP2301754624)

[**EXTERNAL EMAIL**]

To whom it may concern,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



From: Beaux Jennings <bjennings@ensolum.com>
Sent: Friday, January 20, 2023 12:33 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Spore, Christopher <caspo@eprod.com>; Sanjari, Melodie (MRO) <msanjari@marathonoil.com>; Joseph Hernandez <jhernandez@ensolum.com>
Subject: [EXTERNAL] W23-004 ETC Marathon Battle 1-2 (Incident ID# nAPP2301754624)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good Afternoon,

On behalf of Enterprise Transportation Company, Ensolum, LLC would like to provide notification for sampling activities that will be conducted at the W23-004 ETC Marathon Battle 1-2 (Incident ID# nAPP2301754624) on Tuesday, January 24th at approximately 2pm. The samples may be used for closure, provided that they meet applicable closure limits.

Thank you,



Beaux Jennings
Senior Project Manager
210-219-8858
Ensolum, LLC
in f t

PLEASE NOTE OUR NEW CORPORATE ADDRESS:

Ensolum, LLC
8330 LBJ Freeway, Ste. 830
Dallas, TX 75243

Beaux Jennings

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Monday, January 30, 2023 9:42 AM
To: Beaux Jennings
Cc: Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD
Subject: RE: [EXTERNAL] W23-004 ETC Marathon Battle 1-2 (Incident ID# nAPP2301754624)

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EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
<http://www.emnrd.nm.gov>



From: Beaux Jennings <bjenning@ensolum.com>
Sent: Thursday, January 26, 2023 1:58 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Joseph Hernandez <jhernandez@ensolum.com>; Spore, Christopher <caspore@eprod.com>; Sanjari, Melodie (MRO) <msanjari@marathonoil.com>
Subject: RE: [EXTERNAL] W23-004 ETC Marathon Battle 1-2 (Incident ID# nAPP2301754624)

Good Afternoon,

On behalf of Enterprise Transportation Company, Ensolum, LLC would like to provide notification for sampling activities that will be conducted at the W23-004 ETC Marathon Battle 1-2 (Incident ID# nAPP2301754624) on Monday, January 30th and/or Tuesday, January 31st. The samples may be used for closure, provided that they meet applicable closure limits.

Thank you,



Beaux Jennings
Senior Project Manager
210-219-8858
Ensolum, LLC
in f  

PLEASE NOTE OUR NEW CORPORATE ADDRESS:

Ensolum, LLC
8330 LBJ Freeway, Ste. 830
Dallas, TX 75243

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Friday, January 20, 2023 2:13 PM
To: Beaux Jennings <bjennings@ensolum.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>
Subject: RE: [EXTERNAL] W23-004 ETC Marathon Battle 1-2 (Incident ID# nAPP2301754624)

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Sent: Friday, January 20, 2023 12:33 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Spore, Christopher <caspo@eprod.com>; Sanjari, Melodie (MRO) <msanjari@marathonoil.com>; Joseph Hernandez <jhernandez@ensolum.com>
Subject: [EXTERNAL] W23-004 ETC Marathon Battle 1-2 (Incident ID# nAPP2301754624)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good Afternoon,

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Thank you,

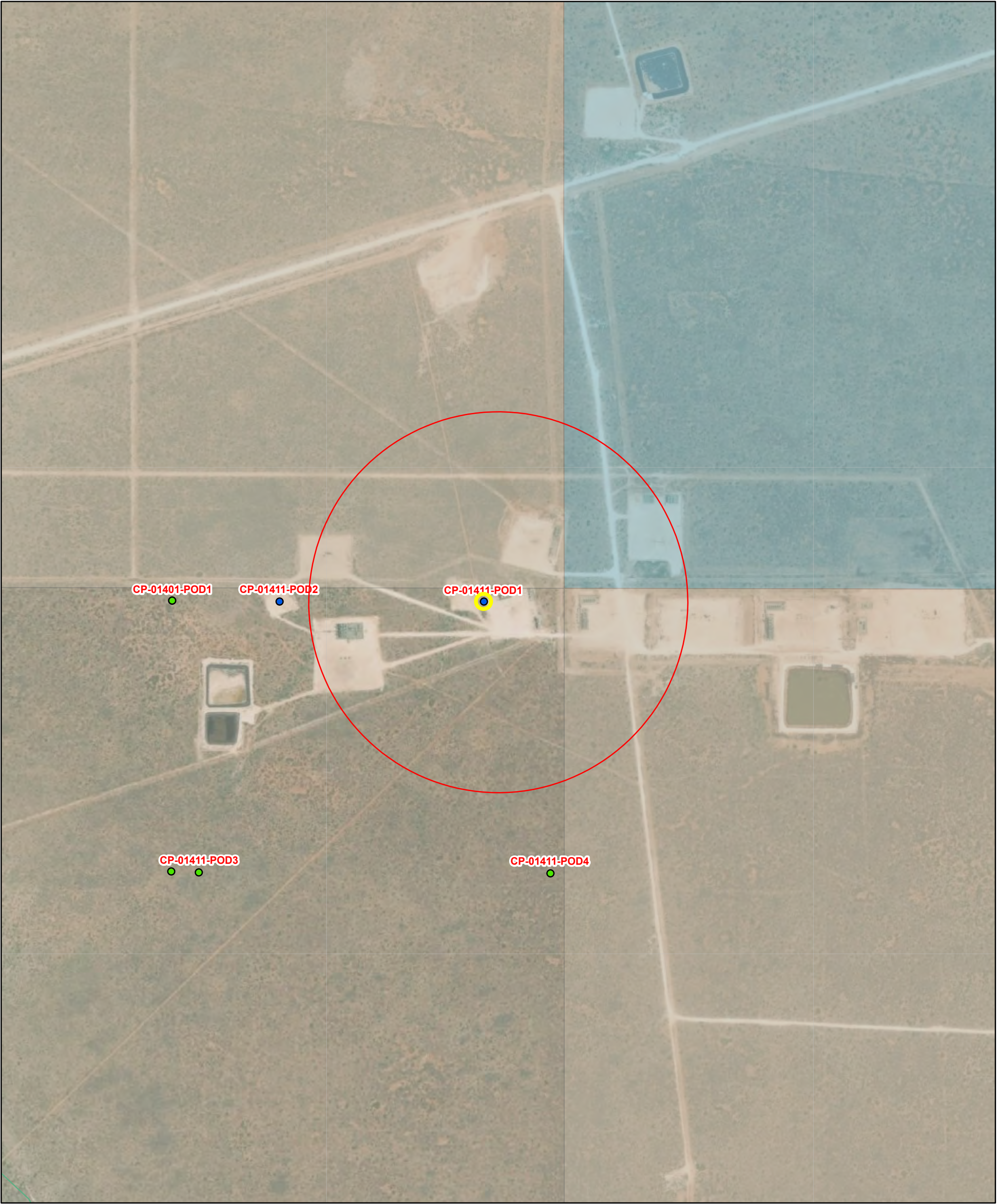


Beaux Jennings
Senior Project Manager
210-219-8858
Ensolum, LLC
in f 

PLEASE NOTE OUR NEW CORPORATE ADDRESS:

Ensolum, LLC
8330 LBJ Freeway, Ste. 830
Dallas, TX 75243

OSE POD Locations Map



2/22/2023, 6:36:48 PM

GIS WATERS PODs

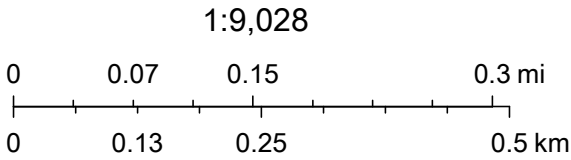
- Active
- Pending
- OSE District Boundary

Water Right Regulations

- Closure Area
- New Mexico State Trust Lands
- Subsurface Estate

Both Estates

- NHD Flowlines
- Stream River
- SiteBoundaries



Esri, HERE, iPC, U.S. Department of Energy Office of Legacy Management, Esri, HERE, Garmin, iPC, Maxar



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 01411 POD1		2	2	34	21S	33E	635968	3590386

x

Driller License:

1723

Driller Company:

SBQ2, LLC DBA STEWART BROTHERS DRILLING CO.

Driller Name:

Drill Start Date:

10/09/2014

Drill Finish Date:

10/14/2014

Plug Date:

Log File Date:

12/26/2014

PCW Rev Date:

Source:

Artesian

Pump Type:

Pipe Discharge Size:

Estimated Yield:

50 GPM

Casing Size:

9.88

Depth Well:

1149 feet

Depth Water:

x

Water Bearing Stratifications:

Top

Bottom

Description

800

820

Sandstone/Gravel/Conglomerate

820

1145

Sandstone/Gravel/Conglomerate

x

Casing Perforations:

Top

Bottom

780

1149

x

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.

1/18/23 2:22 PM

POINT OF DIVERSION SUMMARY

nmwrrs.ose.state.nm.us/ReportDispatcher?type=PODGHTML&name=PodGroundSummaryHTML.jrxml&basin=CP&nbr=01411&suffix=POD1

Released to Imaging: 5/1/2023 1:00:06 PM

1/1



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER) POD 1 CP-1411					OSE FILE NUMBER(S)					
	WELL OWNER NAME(S) BC Operating					PHONE (OPTIONAL) 432-684-9696					
	WELL OWNER MAILING ADDRESS 4000 Big Spring St. STE 310					CITY Midland		STATE TX		ZIP 79705	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE	MINUTES 32	SECONDS 26	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84					
	LONGITUDE	103	33	12.9	W						
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE											
2. DRILLING & CASING INFORMATION	LICENSE NUMBER 1723		NAME OF LICENSED DRILLER Randal P Stewart				NAME OF WELL DRILLING COMPANY Stewart Brothers Drilling Company				
	DRILLING STARTED 10/9/14		DRILLING ENDED 10/14/14		DEPTH OF COMPLETED WELL (FT) 1149		BORE HOLE DEPTH (FT) 1149		DEPTH WATER FIRST ENCOUNTERED (FT) 800		
	COMPLETED WELL IS: <input checked="" type="radio"/> ARTESIAN <input type="radio"/> DRY HOLE <input type="radio"/> SHALLOW (UNCONFINED)								STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A		
	DRILLING FLUID: <input type="radio"/> AIR <input checked="" type="radio"/> MUD ADDITIVES - SPECIFY:										
	DRILLING METHOD: <input type="radio"/> ROTARY <input type="radio"/> HAMMER <input type="radio"/> CABLE TOOL <input type="radio"/> OTHER - SPECIFY:										
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)			
	FROM	TO									
	0	40	20	A 53 Grade B	Welded	15.5	.250				
	+2	800	14 3/4	A 53 Grade B	Threaded	10.02	.365				
	780	1149	9 7/8	A 53 Grade B	Welded	8	.322	.125			
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT					
	FROM	TO									
	0	40	20	Neat Cement	31	Pressure via Tremie					
	0	800	14 3/4	Class C (Chief Services)	540 Sks	Chief Services					

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER	CP-1411	POD NUMBER	1	TRN NUMBER	554668
LOCATION	Ex 12	215.33E.3422			PAGE 1 OF 2

STAT ENG OFFICE
BOSTON, NEW MEX

Released to Imaging: 5/1/2023 1:00:06 PM

32.4421, -103.5529

X

Q

Show search results for 32.4421, -103...





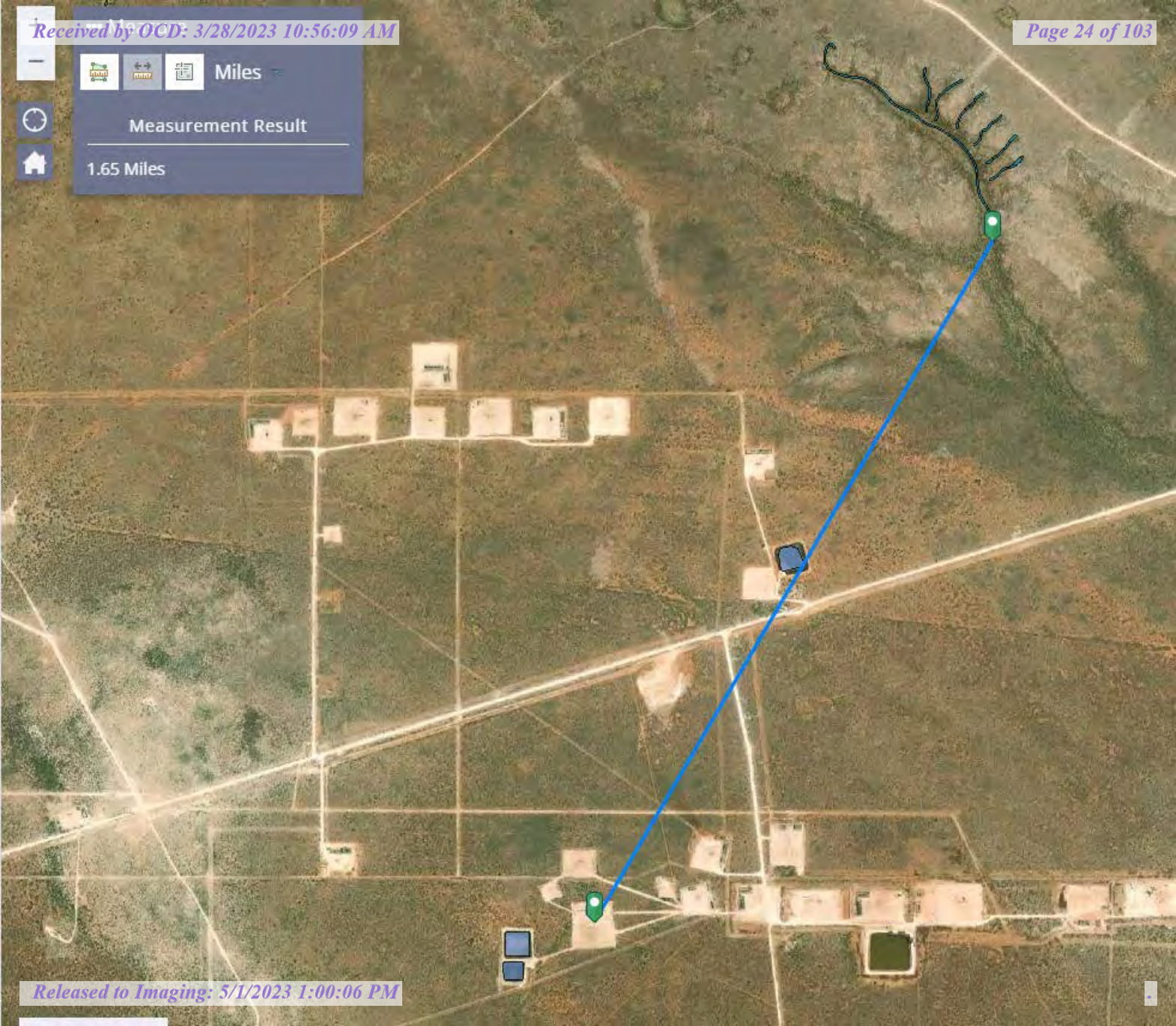
Miles



Measurement Result







1.65 Miles

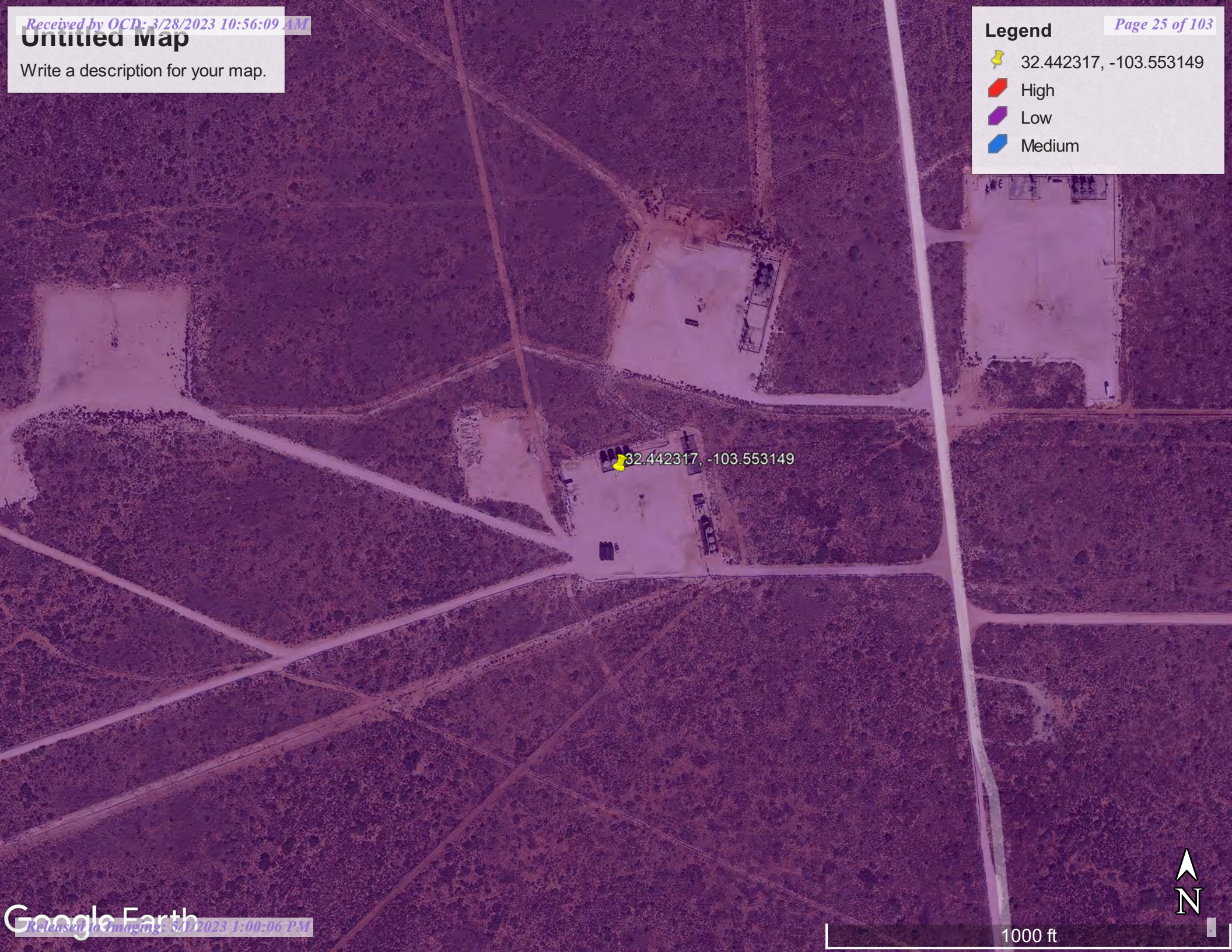


Untitled Map

Write a description for your map.

Legend

-  32.442317, -103.553149
-  High
-  Low
-  Medium



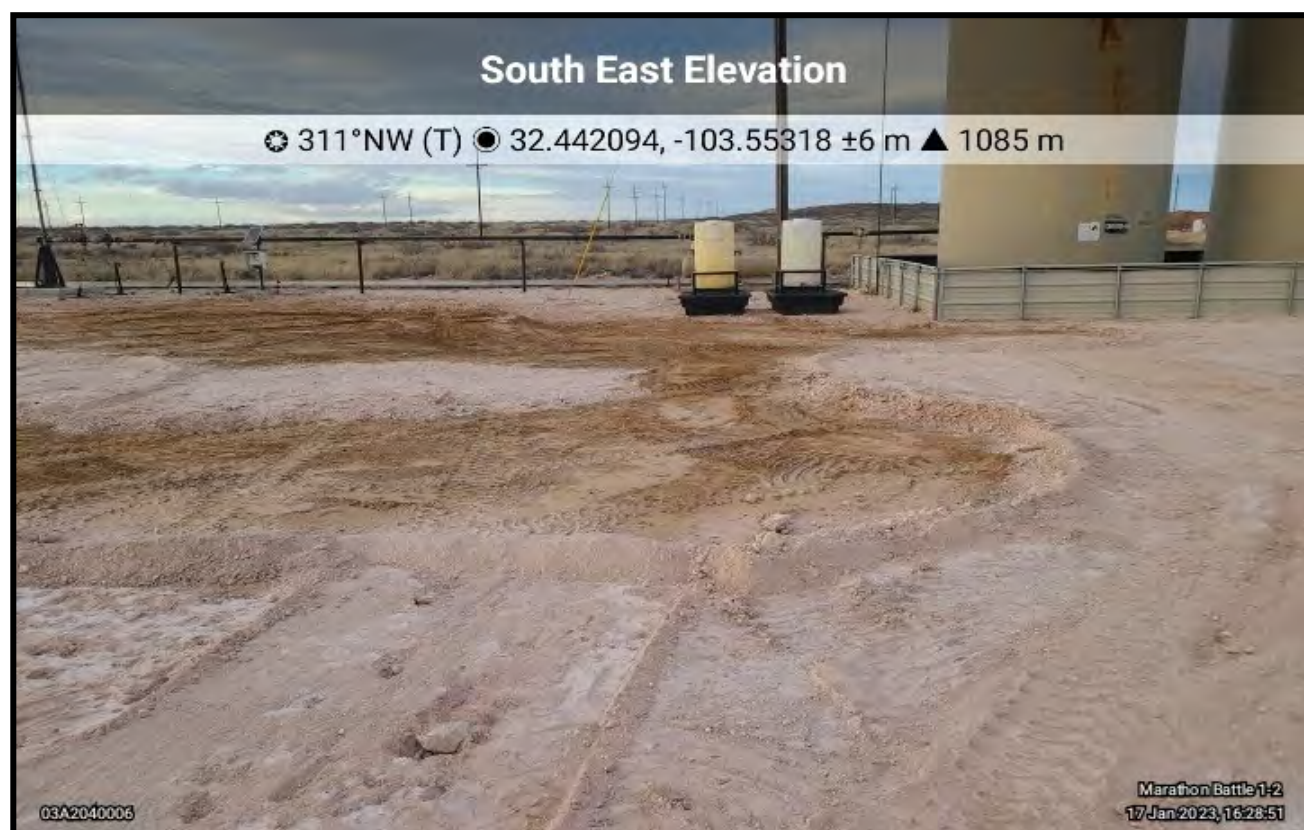


APPENDIX C

Photographic Documentation



View of initial release area, facing west.



View of release area during initial response actions, facing northwest.



View of excavation during response action activities, facing west.



View of excavation during response action activities, facing northwest.



View of excavation subsequent to backfill, facing northwest.



View of excavation subsequent to backfill, facing east.



APPENDIX D

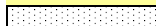
Table

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS

Marathon Battle 1-2 Battery
Enterprise Field Services, LLC
Lea County, New Mexico
Ensolum Project No. 03A2040006

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (≤ 50 feet)			10	NE	NE	NE	50	NE	NE	NE	100	600
Composite Floor Sample Analytical Results												
FS-1	2/1/2023	3	<0.000388	<0.000460	<0.000570	<0.00102	<0.00102	25.6 J	23.6 J	<15.0	49.2 J	7.28
FS-2	2/1/2023	3	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	25.4 J	<15.0	<15.0	25.4 J	41.9
FS-3	2/1/2023	3	<0.000381	<0.000451	<0.000559	<0.00100	<0.00100	21.2 J	17.5 J	<15.0	38.7 J	6.28
FS-4	2/1/2023	3	<0.000387	<0.000459	<0.000568	<0.00102	<0.00102	30.8 J	18.8 J	<15.0	49.6 J	20.1
FS-5	2/1/2023	3	<0.000386	<0.000457	<0.000566	<0.00101	<0.00101	21.5 J	19.4 J	<15.0	40.9 J	1,040
	2/7/2023	3	NS					NS				179
FS-6	2/1/2023	3	<0.000383	<0.000454	<0.000563	<0.00101	<0.00101	31.0 J	21.9 J	<15.0	52.9	311
FS-7	2/1/2023	3	<0.000383	<0.000453	<0.000562	<0.00100	<0.00100	28.5 J	20.6 J	<15.0	49.1 J	80.5
FS-8	2/1/2023	3	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	19.2 J	19.2 J	<15.0	38.4 J	174
FS-9	2/1/2023	3	<0.000381	<0.000451	<0.000559	<0.00100	<0.00100	29.4 J	<15.0	<15.0	29.4 J	71.3
FS-10	2/1/2023	3	<0.000383	<0.000454	<0.000563	<0.00101	<0.00101	22.2 J	<15.0	<15.0	22.2 J	175
Composite Sidewall Sample Analytical Results												
SW-1	2/1/2023	3	<0.000387	0.000504 J	<0.000568	<0.00102	<0.00102	24.1 J	27.4 J	<15.0	51.5	100
SW-2	2/1/2023	3	<0.000389	<0.000461	<0.000571	<0.00102	<0.00102	<15.0	18.9 J	<15.0	18.9 J	51.8
SW-3	2/1/2023	3	<0.000383	<0.000454	<0.000563	<0.00101	<0.00101	23.5 J	16.2 J	<15.0	39.7 J	464

Concentrations in **bold** and yellow exceed the New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (≤ 50 feet)

 Over Excavated and/or Re-Sampled

bgs - below ground surface

J - The target analyte was positively identified below the quantitation limit and above the detection limit.

mg/kg - milligrams per kilogram

NE - Not Established

NS - Not Sampled

BTEX - Benzene, Toluene, Ethylbenzene, and Xylenes

GRO - Gasoline Range Organics

DRO - Diesel Range Organics

MRO - Motor Oil/Lube Oil Range Organics

TPH - Total Petroleum Hydrocarbon



APPENDIX E

Laboratory Analytical Reports & Chain-of-Custody Documentation



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Joseph Hernandez
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 2/6/2023 11:24:35 AM

JOB DESCRIPTION

Marathon Battle
SDG NUMBER Lea County, NM

JOB NUMBER

880-24225-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Eurofins Midland

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
2/6/2023 11:24:35 AM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Ensolum
Project/Site: Marathon Battle

Laboratory Job ID: 880-24225-1
SDG: Lea County, NM

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Definitions/Glossary

Client: Ensolum
Project/Site: Marathon Battle

Job ID: 880-24225-1
SDG: Lea County, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum
Project/Site: Marathon Battle

Job ID: 880-24225-1
SDG: Lea County, NM

Job ID: 880-24225-1

Laboratory: Eurofins Midland

Narrative	Job Narrative 880-24225-1
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Receipt

The samples were received on 2/2/2023 8:15 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.2°C

Receipt Exceptions

The following samples analyzed for method <TPH 8015> were received and analyzed from an unpreserved bulk soil jar.

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-45240 and analytical batch 880-45228 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SW-1 (880-24225-11) and (MB 880-45240/1-A). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Client Sample Results

Client: Ensolum
Project/Site: Marathon Battle

Job ID: 880-24225-1
SDG: Lea County, NM

Client Sample ID: FS-1

Lab Sample ID: 880-24225-1

Date Collected: 02/01/23 00:00

Matrix: Solid

Date Received: 02/02/23 08:15

Sample Depth: 3

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000388	U	0.00202	0.000388 mg/Kg		02/03/23 14:42	02/05/23 14:11	1
Toluene	<0.000460	U	0.00202	0.000460 mg/Kg		02/03/23 14:42	02/05/23 14:11	1
Ethylbenzene	<0.000570	U	0.00202	0.000570 mg/Kg		02/03/23 14:42	02/05/23 14:11	1
m-Xylene & p-Xylene	<0.00102	U	0.00403	0.00102 mg/Kg		02/03/23 14:42	02/05/23 14:11	1
o-Xylene	<0.000347	U	0.00202	0.000347 mg/Kg		02/03/23 14:42	02/05/23 14:11	1
Xylenes, Total	<0.00102	U	0.00403	0.00102 mg/Kg		02/03/23 14:42	02/05/23 14:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	02/03/23 14:42	02/05/23 14:11	1
1,4-Difluorobenzene (Surr)	109		70 - 130	02/03/23 14:42	02/05/23 14:11	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00403	0.00102 mg/Kg			02/06/23 11:54	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	49.2	J	50.0	15.0 mg/Kg			02/03/23 11:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	25.6	J F2	50.0	15.0 mg/Kg		02/02/23 09:34	02/02/23 21:22	1
Diesel Range Organics (Over C10-C28)	23.6	J	50.0	15.0 mg/Kg		02/02/23 09:34	02/02/23 21:22	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0 mg/Kg		02/02/23 09:34	02/02/23 21:22	1
Total TPH	49.2	J	50.0	15.0 mg/Kg		02/02/23 09:34	02/02/23 21:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	02/02/23 09:34	02/02/23 21:22	1
o-Terphenyl	122		70 - 130	02/02/23 09:34	02/02/23 21:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.28		5.04	0.398 mg/Kg			02/02/23 18:03	1

Client Sample ID: FS-2

Lab Sample ID: 880-24225-2

Date Collected: 02/01/23 00:00

Matrix: Solid

Date Received: 02/02/23 08:15

Sample Depth: 3

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384 mg/Kg		02/03/23 14:42	02/05/23 14:31	1
Toluene	<0.000455	U	0.00200	0.000455 mg/Kg		02/03/23 14:42	02/05/23 14:31	1
Ethylbenzene	<0.000564	U	0.00200	0.000564 mg/Kg		02/03/23 14:42	02/05/23 14:31	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101 mg/Kg		02/03/23 14:42	02/05/23 14:31	1
o-Xylene	<0.000343	U	0.00200	0.000343 mg/Kg		02/03/23 14:42	02/05/23 14:31	1
Xylenes, Total	<0.00101	U	0.00399	0.00101 mg/Kg		02/03/23 14:42	02/05/23 14:31	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Marathon Battle

Job ID: 880-24225-1
SDG: Lea County, NM

Client Sample ID: FS-2

Lab Sample ID: 880-24225-2

Date Collected: 02/01/23 00:00

Matrix: Solid

Date Received: 02/02/23 08:15

Sample Depth: 3

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				02/03/23 14:42	02/05/23 14:31	1
1,4-Difluorobenzene (Surr)	108		70 - 130				02/03/23 14:42	02/05/23 14:31	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00399	0.00101 mg/Kg			02/06/23 11:54	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	25.4	J	49.9	15.0 mg/Kg			02/03/23 11:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	25.4	J	49.9	15.0 mg/Kg		02/02/23 09:34	02/02/23 22:26	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0 mg/Kg		02/02/23 09:34	02/02/23 22:26	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0 mg/Kg		02/02/23 09:34	02/02/23 22:26	1
Total TPH	25.4	J	49.9	15.0 mg/Kg		02/02/23 09:34	02/02/23 22:26	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				02/02/23 09:34	02/02/23 22:26	1
o-Terphenyl	116		70 - 130				02/02/23 09:34	02/02/23 22:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.9		4.99	0.394 mg/Kg			02/02/23 18:09	1

Client Sample ID: FS-3

Lab Sample ID: 880-24225-3

Date Collected: 02/01/23 00:00

Matrix: Solid

Date Received: 02/02/23 08:15

Sample Depth: 3

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000381	U	0.00198	0.000381 mg/Kg		02/03/23 14:42	02/05/23 14:52	1
Toluene	<0.000451	U	0.00198	0.000451 mg/Kg		02/03/23 14:42	02/05/23 14:52	1
Ethylbenzene	<0.000559	U	0.00198	0.000559 mg/Kg		02/03/23 14:42	02/05/23 14:52	1
m-Xylene & p-Xylene	<0.00100	U	0.00396	0.00100 mg/Kg		02/03/23 14:42	02/05/23 14:52	1
o-Xylene	<0.000341	U	0.00198	0.000341 mg/Kg		02/03/23 14:42	02/05/23 14:52	1
Xylenes, Total	<0.00100	U	0.00396	0.00100 mg/Kg		02/03/23 14:42	02/05/23 14:52	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				02/03/23 14:42	02/05/23 14:52	1
1,4-Difluorobenzene (Surr)	108		70 - 130				02/03/23 14:42	02/05/23 14:52	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00396	0.00100 mg/Kg			02/06/23 11:54	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Marathon Battle

Job ID: 880-24225-1
SDG: Lea County, NM

Client Sample ID: FS-3

Lab Sample ID: 880-24225-3

Date Collected: 02/01/23 00:00

Matrix: Solid

Date Received: 02/02/23 08:15

Sample Depth: 3

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	38.7	J	50.0	15.0 mg/Kg			02/03/23 11:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.2	J	50.0	15.0 mg/Kg		02/02/23 09:34	02/02/23 22:47	1
Diesel Range Organics (Over C10-C28)	17.5	J	50.0	15.0 mg/Kg		02/02/23 09:34	02/02/23 22:47	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0 mg/Kg		02/02/23 09:34	02/02/23 22:47	1
Total TPH	38.7	J	50.0	15.0 mg/Kg		02/02/23 09:34	02/02/23 22:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			02/02/23 09:34	02/02/23 22:47	1
o-Terphenyl	117		70 - 130			02/02/23 09:34	02/02/23 22:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.28		4.95	0.391 mg/Kg			02/02/23 18:15	1

Client Sample ID: FS-4

Lab Sample ID: 880-24225-4

Date Collected: 02/01/23 00:00

Matrix: Solid

Date Received: 02/02/23 08:15

Sample Depth: 3

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387 mg/Kg		02/03/23 14:42	02/05/23 15:12	1
Toluene	<0.000459	U	0.00201	0.000459 mg/Kg		02/03/23 14:42	02/05/23 15:12	1
Ethylbenzene	<0.000568	U	0.00201	0.000568 mg/Kg		02/03/23 14:42	02/05/23 15:12	1
m-Xylene & p-Xylene	<0.00102	U	0.00402	0.00102 mg/Kg		02/03/23 14:42	02/05/23 15:12	1
o-Xylene	<0.000346	U	0.00201	0.000346 mg/Kg		02/03/23 14:42	02/05/23 15:12	1
Xylenes, Total	<0.00102	U	0.00402	0.00102 mg/Kg		02/03/23 14:42	02/05/23 15:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130			02/03/23 14:42	02/05/23 15:12	1
1,4-Difluorobenzene (Surr)	112		70 - 130			02/03/23 14:42	02/05/23 15:12	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00402	0.00102 mg/Kg			02/06/23 11:54	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	49.6	J	50.0	15.0 mg/Kg			02/03/23 11:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	30.8	J	50.0	15.0 mg/Kg		02/02/23 09:34	02/02/23 23:08	1
Diesel Range Organics (Over C10-C28)	18.8	J	50.0	15.0 mg/Kg		02/02/23 09:34	02/02/23 23:08	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0 mg/Kg		02/02/23 09:34	02/02/23 23:08	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Marathon Battle

Job ID: 880-24225-1
SDG: Lea County, NM

Client Sample ID: FS-4

Lab Sample ID: 880-24225-4

Date Collected: 02/01/23 00:00

Matrix: Solid

Date Received: 02/02/23 08:15

Sample Depth: 3

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	49.6	J	50.0	15.0 mg/Kg		02/02/23 09:34	02/02/23 23:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			02/02/23 09:34	02/02/23 23:08	1
o-Terphenyl	118		70 - 130			02/02/23 09:34	02/02/23 23:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.1		5.05	0.399 mg/Kg			02/02/23 18:21	1

Client Sample ID: FS-5

Lab Sample ID: 880-24225-5

Date Collected: 01/31/23 00:00

Matrix: Solid

Date Received: 02/02/23 08:15

Sample Depth: 3

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000386 mg/Kg		02/03/23 14:42	02/05/23 15:32	1
Toluene	<0.000457	U	0.00200	0.000457 mg/Kg		02/03/23 14:42	02/05/23 15:32	1
Ethylbenzene	<0.000566	U	0.00200	0.000566 mg/Kg		02/03/23 14:42	02/05/23 15:32	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101 mg/Kg		02/03/23 14:42	02/05/23 15:32	1
o-Xylene	<0.000345	U	0.00200	0.000345 mg/Kg		02/03/23 14:42	02/05/23 15:32	1
Xylenes, Total	<0.00101	U	0.00401	0.00101 mg/Kg		02/03/23 14:42	02/05/23 15:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			02/03/23 14:42	02/05/23 15:32	1
1,4-Difluorobenzene (Surr)	115		70 - 130			02/03/23 14:42	02/05/23 15:32	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00401	0.00101 mg/Kg			02/06/23 11:54	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	40.9	J	49.9	15.0 mg/Kg			02/03/23 11:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.5	J	49.9	15.0 mg/Kg		02/02/23 09:34	02/02/23 23:29	1
Diesel Range Organics (Over C10-C28)	19.4	J	49.9	15.0 mg/Kg		02/02/23 09:34	02/02/23 23:29	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0 mg/Kg		02/02/23 09:34	02/02/23 23:29	1
Total TPH	40.9	J	49.9	15.0 mg/Kg		02/02/23 09:34	02/02/23 23:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			02/02/23 09:34	02/02/23 23:29	1
o-Terphenyl	118		70 - 130			02/02/23 09:34	02/02/23 23:29	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Marathon Battle

Job ID: 880-24225-1
SDG: Lea County, NM

Client Sample ID: FS-5

Lab Sample ID: 880-24225-5

Date Collected: 01/31/23 00:00

Matrix: Solid

Date Received: 02/02/23 08:15

Sample Depth: 3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1040		4.97	0.393 mg/Kg			02/02/23 18:28	1

Client Sample ID: FS-6

Lab Sample ID: 880-24225-6

Date Collected: 01/31/23 00:00

Matrix: Solid

Date Received: 02/02/23 08:15

Sample Depth: 3

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383 mg/Kg		02/03/23 14:42	02/05/23 15:53	1
Toluene	<0.000454	U	0.00199	0.000454 mg/Kg		02/03/23 14:42	02/05/23 15:53	1
Ethylbenzene	<0.000563	U	0.00199	0.000563 mg/Kg		02/03/23 14:42	02/05/23 15:53	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101 mg/Kg		02/03/23 14:42	02/05/23 15:53	1
o-Xylene	<0.000343	U	0.00199	0.000343 mg/Kg		02/03/23 14:42	02/05/23 15:53	1
Xylenes, Total	<0.00101	U	0.00398	0.00101 mg/Kg		02/03/23 14:42	02/05/23 15:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			02/03/23 14:42	02/05/23 15:53	1
1,4-Difluorobenzene (Surr)	113		70 - 130			02/03/23 14:42	02/05/23 15:53	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00398	0.00101 mg/Kg			02/06/23 11:54	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	52.9		49.9	15.0 mg/Kg			02/03/23 11:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	31.0	J	49.9	15.0 mg/Kg		02/02/23 09:34	02/02/23 23:50	1
Diesel Range Organics (Over C10-C28)	21.9	J	49.9	15.0 mg/Kg		02/02/23 09:34	02/02/23 23:50	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0 mg/Kg		02/02/23 09:34	02/02/23 23:50	1
Total TPH	52.9		49.9	15.0 mg/Kg		02/02/23 09:34	02/02/23 23:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130			02/02/23 09:34	02/02/23 23:50	1
o-Terphenyl	127		70 - 130			02/02/23 09:34	02/02/23 23:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	311		4.95	0.391 mg/Kg			02/02/23 18:34	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Marathon Battle

Job ID: 880-24225-1
SDG: Lea County, NM

Client Sample ID: FS-7

Lab Sample ID: 880-24225-7

Date Collected: 01/31/23 00:00

Matrix: Solid

Date Received: 02/02/23 08:15

Sample Depth: 3

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383 mg/Kg		02/03/23 14:42	02/05/23 16:13	1
Toluene	<0.000453	U	0.00199	0.000453 mg/Kg		02/03/23 14:42	02/05/23 16:13	1
Ethylbenzene	<0.000562	U	0.00199	0.000562 mg/Kg		02/03/23 14:42	02/05/23 16:13	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100 mg/Kg		02/03/23 14:42	02/05/23 16:13	1
o-Xylene	<0.000342	U	0.00199	0.000342 mg/Kg		02/03/23 14:42	02/05/23 16:13	1
Xylenes, Total	<0.00100	U	0.00398	0.00100 mg/Kg		02/03/23 14:42	02/05/23 16:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	02/03/23 14:42	02/05/23 16:13	1
1,4-Difluorobenzene (Surr)	106		70 - 130	02/03/23 14:42	02/05/23 16:13	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00398	0.00100 mg/Kg			02/06/23 11:54	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	49.1	J	49.9	15.0 mg/Kg			02/03/23 11:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	28.5	J	49.9	15.0 mg/Kg		02/02/23 09:34	02/03/23 00:12	1
Diesel Range Organics (Over C10-C28)	20.6	J	49.9	15.0 mg/Kg		02/02/23 09:34	02/03/23 00:12	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0 mg/Kg		02/02/23 09:34	02/03/23 00:12	1
Total TPH	49.1	J	49.9	15.0 mg/Kg		02/02/23 09:34	02/03/23 00:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	02/02/23 09:34	02/03/23 00:12	1
o-Terphenyl	111		70 - 130	02/02/23 09:34	02/03/23 00:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	80.5		5.00	0.395 mg/Kg			02/02/23 18:40	1

Client Sample ID: FS-8

Lab Sample ID: 880-24225-8

Date Collected: 01/31/23 00:00

Matrix: Solid

Date Received: 02/02/23 08:15

Sample Depth: 3

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384 mg/Kg		02/03/23 14:42	02/05/23 16:34	1
Toluene	<0.000455	U	0.00200	0.000455 mg/Kg		02/03/23 14:42	02/05/23 16:34	1
Ethylbenzene	<0.000564	U	0.00200	0.000564 mg/Kg		02/03/23 14:42	02/05/23 16:34	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101 mg/Kg		02/03/23 14:42	02/05/23 16:34	1
o-Xylene	<0.000343	U	0.00200	0.000343 mg/Kg		02/03/23 14:42	02/05/23 16:34	1
Xylenes, Total	<0.00101	U	0.00399	0.00101 mg/Kg		02/03/23 14:42	02/05/23 16:34	1

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Client Sample Results

Client: Ensolum
Project/Site: Marathon Battle

Job ID: 880-24225-1
SDG: Lea County, NM

Client Sample ID: FS-8

Lab Sample ID: 880-24225-8

Date Collected: 01/31/23 00:00

Matrix: Solid

Date Received: 02/02/23 08:15

Sample Depth: 3

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				02/03/23 14:42	02/05/23 16:34	1
1,4-Difluorobenzene (Surr)	115		70 - 130				02/03/23 14:42	02/05/23 16:34	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00399	0.00101 mg/Kg			02/06/23 11:54	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	38.4	J	49.9	15.0 mg/Kg			02/03/23 11:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	19.2	J	49.9	15.0 mg/Kg		02/02/23 09:34	02/03/23 00:33	1
Diesel Range Organics (Over C10-C28)	19.2	J	49.9	15.0 mg/Kg		02/02/23 09:34	02/03/23 00:33	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0 mg/Kg		02/02/23 09:34	02/03/23 00:33	1
Total TPH	38.4	J	49.9	15.0 mg/Kg		02/02/23 09:34	02/03/23 00:33	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				02/02/23 09:34	02/03/23 00:33	1
o-Terphenyl	117		70 - 130				02/02/23 09:34	02/03/23 00:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	174		5.03	0.397 mg/Kg			02/02/23 23:05	1

Client Sample ID: FS-9

Lab Sample ID: 880-24225-9

Date Collected: 01/31/23 00:00

Matrix: Solid

Date Received: 02/02/23 08:15

Sample Depth: 3

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000381	U	0.00198	0.000381 mg/Kg		02/03/23 14:42	02/05/23 16:54	1
Toluene	<0.000451	U	0.00198	0.000451 mg/Kg		02/03/23 14:42	02/05/23 16:54	1
Ethylbenzene	<0.000559	U	0.00198	0.000559 mg/Kg		02/03/23 14:42	02/05/23 16:54	1
m-Xylene & p-Xylene	<0.00100	U	0.00396	0.00100 mg/Kg		02/03/23 14:42	02/05/23 16:54	1
o-Xylene	<0.000341	U	0.00198	0.000341 mg/Kg		02/03/23 14:42	02/05/23 16:54	1
Xylenes, Total	<0.00100	U	0.00396	0.00100 mg/Kg		02/03/23 14:42	02/05/23 16:54	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				02/03/23 14:42	02/05/23 16:54	1
1,4-Difluorobenzene (Surr)	106		70 - 130				02/03/23 14:42	02/05/23 16:54	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00396	0.00100 mg/Kg			02/06/23 11:54	1

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Client Sample Results

Client: Ensolum
Project/Site: Marathon Battle

Job ID: 880-24225-1
SDG: Lea County, NM

Client Sample ID: FS-9

Lab Sample ID: 880-24225-9

Date Collected: 01/31/23 00:00

Matrix: Solid

Date Received: 02/02/23 08:15

Sample Depth: 3

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	29.4	J	49.9	15.0 mg/Kg			02/03/23 11:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	29.4	J	49.9	15.0 mg/Kg		02/02/23 09:34	02/03/23 00:55	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0 mg/Kg		02/02/23 09:34	02/03/23 00:55	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0 mg/Kg		02/02/23 09:34	02/03/23 00:55	1
Total TPH	29.4	J	49.9	15.0 mg/Kg		02/02/23 09:34	02/03/23 00:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130			02/02/23 09:34	02/03/23 00:55	1
o-Terphenyl	113		70 - 130			02/02/23 09:34	02/03/23 00:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71.3		5.00	0.395 mg/Kg			02/02/23 23:23	1

Client Sample ID: FS-10

Lab Sample ID: 880-24225-10

Date Collected: 02/01/23 00:00

Matrix: Solid

Date Received: 02/02/23 08:15

Sample Depth: 3

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383 mg/Kg		02/03/23 14:42	02/05/23 17:15	1
Toluene	<0.000454	U	0.00199	0.000454 mg/Kg		02/03/23 14:42	02/05/23 17:15	1
Ethylbenzene	<0.000563	U	0.00199	0.000563 mg/Kg		02/03/23 14:42	02/05/23 17:15	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101 mg/Kg		02/03/23 14:42	02/05/23 17:15	1
o-Xylene	<0.000343	U	0.00199	0.000343 mg/Kg		02/03/23 14:42	02/05/23 17:15	1
Xylenes, Total	<0.00101	U	0.00398	0.00101 mg/Kg		02/03/23 14:42	02/05/23 17:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130			02/03/23 14:42	02/05/23 17:15	1
1,4-Difluorobenzene (Surr)	113		70 - 130			02/03/23 14:42	02/05/23 17:15	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00398	0.00101 mg/Kg			02/06/23 11:54	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	22.2	J	50.0	15.0 mg/Kg			02/03/23 11:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	22.2	J	50.0	15.0 mg/Kg		02/02/23 09:34	02/03/23 01:16	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0 mg/Kg		02/02/23 09:34	02/03/23 01:16	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0 mg/Kg		02/02/23 09:34	02/03/23 01:16	1

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Client Sample Results

Client: Ensolum
Project/Site: Marathon Battle

Job ID: 880-24225-1
SDG: Lea County, NM

Client Sample ID: FS-10

Lab Sample ID: 880-24225-10

Date Collected: 02/01/23 00:00

Matrix: Solid

Date Received: 02/02/23 08:15

Sample Depth: 3

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	22.2	J	50.0	15.0 mg/Kg		02/02/23 09:34	02/03/23 01:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130			02/02/23 09:34	02/03/23 01:16	1
o-Terphenyl	113		70 - 130			02/02/23 09:34	02/03/23 01:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	175		4.97	0.393 mg/Kg			02/02/23 23:30	1

Client Sample ID: SW-1

Lab Sample ID: 880-24225-11

Date Collected: 02/01/23 00:00

Matrix: Solid

Date Received: 02/02/23 08:15

Sample Depth: 3

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387 mg/Kg		02/03/23 14:42	02/05/23 19:05	1
Toluene	0.000504	J	0.00201	0.000459 mg/Kg		02/03/23 14:42	02/05/23 19:05	1
Ethylbenzene	<0.000568	U	0.00201	0.000568 mg/Kg		02/03/23 14:42	02/05/23 19:05	1
m-Xylene & p-Xylene	<0.00102	U	0.00402	0.00102 mg/Kg		02/03/23 14:42	02/05/23 19:05	1
o-Xylene	0.000412	J	0.00201	0.000346 mg/Kg		02/03/23 14:42	02/05/23 19:05	1
Xylenes, Total	<0.00102	U	0.00402	0.00102 mg/Kg		02/03/23 14:42	02/05/23 19:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			02/03/23 14:42	02/05/23 19:05	1
1,4-Difluorobenzene (Surr)	110		70 - 130			02/03/23 14:42	02/05/23 19:05	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00402	0.00102 mg/Kg			02/06/23 11:54	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	51.5		49.9	15.0 mg/Kg			02/03/23 11:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	24.1	J	49.9	15.0 mg/Kg		02/02/23 09:34	02/03/23 02:00	1
Diesel Range Organics (Over C10-C28)	27.4	J	49.9	15.0 mg/Kg		02/02/23 09:34	02/03/23 02:00	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0 mg/Kg		02/02/23 09:34	02/03/23 02:00	1
Total TPH	51.5		49.9	15.0 mg/Kg		02/02/23 09:34	02/03/23 02:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130			02/02/23 09:34	02/03/23 02:00	1
o-Terphenyl	132	S1+	70 - 130			02/02/23 09:34	02/03/23 02:00	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Marathon Battle

Job ID: 880-24225-1
SDG: Lea County, NM

Client Sample ID: SW-1

Lab Sample ID: 880-24225-11

Date Collected: 02/01/23 00:00

Matrix: Solid

Date Received: 02/02/23 08:15

Sample Depth: 3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	100		5.05	0.399 mg/Kg			02/02/23 23:36	1

Client Sample ID: SW-2

Lab Sample ID: 880-24225-12

Date Collected: 02/01/23 00:00

Matrix: Solid

Date Received: 02/02/23 08:15

Sample Depth: 3

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000389	U	0.00202	0.000389 mg/Kg		02/03/23 14:42	02/05/23 19:26	1
Toluene	<0.000461	U	0.00202	0.000461 mg/Kg		02/03/23 14:42	02/05/23 19:26	1
Ethylbenzene	<0.000571	U	0.00202	0.000571 mg/Kg		02/03/23 14:42	02/05/23 19:26	1
m-Xylene & p-Xylene	<0.00102	U	0.00404	0.00102 mg/Kg		02/03/23 14:42	02/05/23 19:26	1
o-Xylene	<0.000347	U	0.00202	0.000347 mg/Kg		02/03/23 14:42	02/05/23 19:26	1
Xylenes, Total	<0.00102	U	0.00404	0.00102 mg/Kg		02/03/23 14:42	02/05/23 19:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			02/03/23 14:42	02/05/23 19:26	1
1,4-Difluorobenzene (Surr)	108		70 - 130			02/03/23 14:42	02/05/23 19:26	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00404	0.00102 mg/Kg			02/06/23 11:54	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	18.9	J	49.9	15.0 mg/Kg			02/03/23 11:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0 mg/Kg		02/02/23 09:34	02/03/23 02:21	1
Diesel Range Organics (Over C10-C28)	18.9	J	49.9	15.0 mg/Kg		02/02/23 09:34	02/03/23 02:21	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0 mg/Kg		02/02/23 09:34	02/03/23 02:21	1
Total TPH	18.9	J	49.9	15.0 mg/Kg		02/02/23 09:34	02/03/23 02:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			02/02/23 09:34	02/03/23 02:21	1
o-Terphenyl	124		70 - 130			02/02/23 09:34	02/03/23 02:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51.8		4.99	0.394 mg/Kg			02/02/23 23:42	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Marathon Battle

Job ID: 880-24225-1
SDG: Lea County, NM

Client Sample ID: SW-3

Lab Sample ID: 880-24225-13

Date Collected: 02/01/23 00:00

Matrix: Solid

Date Received: 02/02/23 08:15

Sample Depth: 3

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383 mg/Kg		02/03/23 14:42	02/05/23 19:46	1
Toluene	<0.000454	U	0.00199	0.000454 mg/Kg		02/03/23 14:42	02/05/23 19:46	1
Ethylbenzene	<0.000563	U	0.00199	0.000563 mg/Kg		02/03/23 14:42	02/05/23 19:46	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101 mg/Kg		02/03/23 14:42	02/05/23 19:46	1
o-Xylene	<0.000343	U	0.00199	0.000343 mg/Kg		02/03/23 14:42	02/05/23 19:46	1
Xylenes, Total	<0.00101	U	0.00398	0.00101 mg/Kg		02/03/23 14:42	02/05/23 19:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	02/03/23 14:42	02/05/23 19:46	1
1,4-Difluorobenzene (Surr)	101		70 - 130	02/03/23 14:42	02/05/23 19:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00398	0.00101 mg/Kg			02/06/23 11:54	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	39.7	J	49.9	15.0 mg/Kg			02/03/23 11:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	23.5	J	49.9	15.0 mg/Kg		02/02/23 09:34	02/03/23 02:43	1
Diesel Range Organics (Over C10-C28)	16.2	J	49.9	15.0 mg/Kg		02/02/23 09:34	02/03/23 02:43	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0 mg/Kg		02/02/23 09:34	02/03/23 02:43	1
Total TPH	39.7	J	49.9	15.0 mg/Kg		02/02/23 09:34	02/03/23 02:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	02/02/23 09:34	02/03/23 02:43	1
o-Terphenyl	126		70 - 130	02/02/23 09:34	02/03/23 02:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	464		5.01	0.396 mg/Kg			02/03/23 00:00	1

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Surrogate Summary

Client: Ensolum
Project/Site: Marathon Battle

Job ID: 880-24225-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-24225-1	FS-1	106	109
880-24225-1 MS	FS-1	104	113
880-24225-1 MSD	FS-1	102	111
880-24225-2	FS-2	118	108
880-24225-3	FS-3	112	108
880-24225-4	FS-4	111	112
880-24225-5	FS-5	115	115
880-24225-6	FS-6	109	113
880-24225-7	FS-7	104	106
880-24225-8	FS-8	115	115
880-24225-9	FS-9	109	106
880-24225-10	FS-10	116	113
880-24225-11	SW-1	108	110
880-24225-12	SW-2	112	108
880-24225-13	SW-3	114	101
LCS 880-45403/1-A	Lab Control Sample	105	110
LCSD 880-45403/2-A	Lab Control Sample Dup	106	112
MB 880-45403/5-A	Method Blank	107	104
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-24225-1	FS-1	104	122
880-24225-1 MS	FS-1	111	120
880-24225-1 MSD	FS-1	128	135 S1+
880-24225-2	FS-2	97	116
880-24225-3	FS-3	98	117
880-24225-4	FS-4	100	118
880-24225-5	FS-5	100	118
880-24225-6	FS-6	111	127
880-24225-7	FS-7	94	111
880-24225-8	FS-8	98	117
880-24225-9	FS-9	94	113
880-24225-10	FS-10	96	113
880-24225-11	SW-1	114	132 S1+
880-24225-12	SW-2	109	124
880-24225-13	SW-3	112	126
LCS 880-45240/2-A	Lab Control Sample	80	83
LCSD 880-45240/3-A	Lab Control Sample Dup	89	94
MB 880-45240/1-A	Method Blank	130	148 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: Ensolum
Project/Site: Marathon Battle

Job ID: 880-24225-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-45403/5-A

Matrix: Solid

Analysis Batch: 45525

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45403

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385 mg/Kg		02/03/23 14:42	02/05/23 13:42	1
Toluene	<0.000456	U	0.00200	0.000456 mg/Kg		02/03/23 14:42	02/05/23 13:42	1
Ethylbenzene	<0.000565	U	0.00200	0.000565 mg/Kg		02/03/23 14:42	02/05/23 13:42	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101 mg/Kg		02/03/23 14:42	02/05/23 13:42	1
o-Xylene	<0.000344	U	0.00200	0.000344 mg/Kg		02/03/23 14:42	02/05/23 13:42	1
Xylenes, Total	<0.00101	U	0.00400	0.00101 mg/Kg		02/03/23 14:42	02/05/23 13:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	02/03/23 14:42	02/05/23 13:42	1
1,4-Difluorobenzene (Surr)	104		70 - 130	02/03/23 14:42	02/05/23 13:42	1

Lab Sample ID: LCS 880-45403/1-A

Matrix: Solid

Analysis Batch: 45525

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 45403

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1121		mg/Kg		112	70 - 130
Toluene	0.100	0.1039		mg/Kg		104	70 - 130
Ethylbenzene	0.100	0.1030		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	0.200	0.2174		mg/Kg		109	70 - 130
o-Xylene	0.100	0.1039		mg/Kg		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: LCSD 880-45403/2-A

Matrix: Solid

Analysis Batch: 45525

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 45403

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1109		mg/Kg		111	70 - 130	1	35
Toluene	0.100	0.1037		mg/Kg		104	70 - 130	0	35
Ethylbenzene	0.100	0.1036		mg/Kg		104	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2176		mg/Kg		109	70 - 130	0	35
o-Xylene	0.100	0.1037		mg/Kg		104	70 - 130	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: 880-24225-1 MS

Matrix: Solid

Analysis Batch: 45525

Client Sample ID: FS-1

Prep Type: Total/NA

Prep Batch: 45403

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.000388	U	0.100	0.1049		mg/Kg		104	70 - 130
Toluene	<0.000460	U	0.100	0.09498		mg/Kg		95	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Marathon Battle

Job ID: 880-24225-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-24225-1 MS

Matrix: Solid

Analysis Batch: 45525

Client Sample ID: FS-1

Prep Type: Total/NA

Prep Batch: 45403

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.000570	U	0.100	0.09487		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	<0.00102	U	0.201	0.1994		mg/Kg		99	70 - 130
o-Xylene	<0.000347	U	0.100	0.09510		mg/Kg		95	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: 880-24225-1 MSD

Matrix: Solid

Analysis Batch: 45525

Client Sample ID: FS-1

Prep Type: Total/NA

Prep Batch: 45403

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.000388	U	0.0990	0.1003		mg/Kg		101	70 - 130	4	35
Toluene	<0.000460	U	0.0990	0.09223		mg/Kg		93	70 - 130	3	35
Ethylbenzene	<0.000570	U	0.0990	0.09073		mg/Kg		92	70 - 130	4	35
m-Xylene & p-Xylene	<0.00102	U	0.198	0.1900		mg/Kg		96	70 - 130	5	35
o-Xylene	<0.000347	U	0.0990	0.08969		mg/Kg		91	70 - 130	6	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-45240/1-A

Matrix: Solid

Analysis Batch: 45228

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45240

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0 mg/Kg		02/02/23 09:34	02/02/23 20:18	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0 mg/Kg		02/02/23 09:34	02/02/23 20:18	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0 mg/Kg		02/02/23 09:34	02/02/23 20:18	1
Total TPH	<15.0	U	49.9	15.0 mg/Kg		02/02/23 09:34	02/02/23 20:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130	02/02/23 09:34	02/02/23 20:18	1
o-Terphenyl	148	S1+	70 - 130	02/02/23 09:34	02/02/23 20:18	1

Lab Sample ID: LCS 880-45240/2-A

Matrix: Solid

Analysis Batch: 45228

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 45240

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	999	844.2		mg/Kg		85	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Marathon Battle

Job ID: 880-24225-1
SDG: Lea County, NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-45240/2-A

Matrix: Solid

Analysis Batch: 45228

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 45240

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (Over C10-C28)	999	1006		mg/Kg		101	70 - 130

	LCS %Recovery	LCS Qualifier	Limits
Surrogate			
1-Chlorooctane	80		70 - 130
o-Terphenyl	83		70 - 130

Lab Sample ID: LCSD 880-45240/3-A

Matrix: Solid

Analysis Batch: 45228

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 45240

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	999	736.0		mg/Kg		74	70 - 130	14	20
Diesel Range Organics (Over C10-C28)	999	1129		mg/Kg		113	70 - 130	12	20

	LCSD %Recovery	LCSD Qualifier	Limits
Surrogate			
1-Chlorooctane	89		70 - 130
o-Terphenyl	94		70 - 130

Lab Sample ID: 880-24225-1 MS

Matrix: Solid

Analysis Batch: 45228

Client Sample ID: FS-1

Prep Type: Total/NA

Prep Batch: 45240

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	25.6	J F2	1000	1286		mg/Kg		126	70 - 130
Diesel Range Organics (Over C10-C28)	23.6	J	1000	999.4		mg/Kg		98	70 - 130

	MS %Recovery	MS Qualifier	Limits
Surrogate			
1-Chlorooctane	111		70 - 130
o-Terphenyl	120		70 - 130

Lab Sample ID: 880-24225-1 MSD

Matrix: Solid

Analysis Batch: 45228

Client Sample ID: FS-1

Prep Type: Total/NA

Prep Batch: 45240

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	25.6	J F2	998	1034	F2	mg/Kg		101	70 - 130	22	20
Diesel Range Organics (Over C10-C28)	23.6	J	998	1144		mg/Kg		112	70 - 130	14	20

	MSD %Recovery	MSD Qualifier	Limits
Surrogate			
1-Chlorooctane	128		70 - 130
o-Terphenyl	135	S1+	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Marathon Battle

Job ID: 880-24225-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-45235/1-A

Matrix: Solid

Analysis Batch: 45288

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395 mg/Kg			02/02/23 15:35	1

Lab Sample ID: LCS 880-45235/2-A

Matrix: Solid

Analysis Batch: 45288

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	256.8		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-45235/3-A

Matrix: Solid

Analysis Batch: 45288

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	259.6		mg/Kg		104	90 - 110	1	20

Lab Sample ID: MB 880-45237/1-A

Matrix: Solid

Analysis Batch: 45293

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395 mg/Kg			02/02/23 22:46	1

Lab Sample ID: LCS 880-45237/2-A

Matrix: Solid

Analysis Batch: 45293

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	268.3		mg/Kg		107	90 - 110

Lab Sample ID: LCSD 880-45237/3-A

Matrix: Solid

Analysis Batch: 45293

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	265.0		mg/Kg		106	90 - 110	1	20

Lab Sample ID: 880-24225-8 MS

Matrix: Solid

Analysis Batch: 45293

Client Sample ID: FS-8

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	174		252	438.0		mg/Kg		105	90 - 110

Lab Sample ID: 880-24225-8 MSD

Matrix: Solid

Analysis Batch: 45293

Client Sample ID: FS-8

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	174		252	438.9		mg/Kg		105	90 - 110	0	20

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QC Association Summary

Client: Ensolum
Project/Site: Marathon Battle

Job ID: 880-24225-1
SDG: Lea County, NM

GC VOA

Prep Batch: 45403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24225-1	FS-1	Total/NA	Solid	5035	
880-24225-2	FS-2	Total/NA	Solid	5035	
880-24225-3	FS-3	Total/NA	Solid	5035	
880-24225-4	FS-4	Total/NA	Solid	5035	
880-24225-5	FS-5	Total/NA	Solid	5035	
880-24225-6	FS-6	Total/NA	Solid	5035	
880-24225-7	FS-7	Total/NA	Solid	5035	
880-24225-8	FS-8	Total/NA	Solid	5035	
880-24225-9	FS-9	Total/NA	Solid	5035	
880-24225-10	FS-10	Total/NA	Solid	5035	
880-24225-11	SW-1	Total/NA	Solid	5035	
880-24225-12	SW-2	Total/NA	Solid	5035	
880-24225-13	SW-3	Total/NA	Solid	5035	
MB 880-45403/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-45403/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-45403/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-24225-1 MS	FS-1	Total/NA	Solid	5035	
880-24225-1 MSD	FS-1	Total/NA	Solid	5035	

Analysis Batch: 45525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24225-1	FS-1	Total/NA	Solid	8021B	45403
880-24225-2	FS-2	Total/NA	Solid	8021B	45403
880-24225-3	FS-3	Total/NA	Solid	8021B	45403
880-24225-4	FS-4	Total/NA	Solid	8021B	45403
880-24225-5	FS-5	Total/NA	Solid	8021B	45403
880-24225-6	FS-6	Total/NA	Solid	8021B	45403
880-24225-7	FS-7	Total/NA	Solid	8021B	45403
880-24225-8	FS-8	Total/NA	Solid	8021B	45403
880-24225-9	FS-9	Total/NA	Solid	8021B	45403
880-24225-10	FS-10	Total/NA	Solid	8021B	45403
880-24225-11	SW-1	Total/NA	Solid	8021B	45403
880-24225-12	SW-2	Total/NA	Solid	8021B	45403
880-24225-13	SW-3	Total/NA	Solid	8021B	45403
MB 880-45403/5-A	Method Blank	Total/NA	Solid	8021B	45403
LCS 880-45403/1-A	Lab Control Sample	Total/NA	Solid	8021B	45403
LCSD 880-45403/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	45403
880-24225-1 MS	FS-1	Total/NA	Solid	8021B	45403
880-24225-1 MSD	FS-1	Total/NA	Solid	8021B	45403

Analysis Batch: 45584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24225-1	FS-1	Total/NA	Solid	Total BTEX	
880-24225-2	FS-2	Total/NA	Solid	Total BTEX	
880-24225-3	FS-3	Total/NA	Solid	Total BTEX	
880-24225-4	FS-4	Total/NA	Solid	Total BTEX	
880-24225-5	FS-5	Total/NA	Solid	Total BTEX	
880-24225-6	FS-6	Total/NA	Solid	Total BTEX	
880-24225-7	FS-7	Total/NA	Solid	Total BTEX	
880-24225-8	FS-8	Total/NA	Solid	Total BTEX	
880-24225-9	FS-9	Total/NA	Solid	Total BTEX	

Eurofins Midland

QC Association Summary

Client: Ensolum
Project/Site: Marathon Battle

Job ID: 880-24225-1
SDG: Lea County, NM

GC VOA (Continued)

Analysis Batch: 45584 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24225-10	FS-10	Total/NA	Solid	Total BTEX	
880-24225-11	SW-1	Total/NA	Solid	Total BTEX	
880-24225-12	SW-2	Total/NA	Solid	Total BTEX	
880-24225-13	SW-3	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 45228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24225-1	FS-1	Total/NA	Solid	8015B NM	45240
880-24225-2	FS-2	Total/NA	Solid	8015B NM	45240
880-24225-3	FS-3	Total/NA	Solid	8015B NM	45240
880-24225-4	FS-4	Total/NA	Solid	8015B NM	45240
880-24225-5	FS-5	Total/NA	Solid	8015B NM	45240
880-24225-6	FS-6	Total/NA	Solid	8015B NM	45240
880-24225-7	FS-7	Total/NA	Solid	8015B NM	45240
880-24225-8	FS-8	Total/NA	Solid	8015B NM	45240
880-24225-9	FS-9	Total/NA	Solid	8015B NM	45240
880-24225-10	FS-10	Total/NA	Solid	8015B NM	45240
880-24225-11	SW-1	Total/NA	Solid	8015B NM	45240
880-24225-12	SW-2	Total/NA	Solid	8015B NM	45240
880-24225-13	SW-3	Total/NA	Solid	8015B NM	45240
MB 880-45240/1-A	Method Blank	Total/NA	Solid	8015B NM	45240
LCS 880-45240/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	45240
LCSD 880-45240/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	45240
880-24225-1 MS	FS-1	Total/NA	Solid	8015B NM	45240
880-24225-1 MSD	FS-1	Total/NA	Solid	8015B NM	45240

Prep Batch: 45240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24225-1	FS-1	Total/NA	Solid	8015NM Prep	
880-24225-2	FS-2	Total/NA	Solid	8015NM Prep	
880-24225-3	FS-3	Total/NA	Solid	8015NM Prep	
880-24225-4	FS-4	Total/NA	Solid	8015NM Prep	
880-24225-5	FS-5	Total/NA	Solid	8015NM Prep	
880-24225-6	FS-6	Total/NA	Solid	8015NM Prep	
880-24225-7	FS-7	Total/NA	Solid	8015NM Prep	
880-24225-8	FS-8	Total/NA	Solid	8015NM Prep	
880-24225-9	FS-9	Total/NA	Solid	8015NM Prep	
880-24225-10	FS-10	Total/NA	Solid	8015NM Prep	
880-24225-11	SW-1	Total/NA	Solid	8015NM Prep	
880-24225-12	SW-2	Total/NA	Solid	8015NM Prep	
880-24225-13	SW-3	Total/NA	Solid	8015NM Prep	
MB 880-45240/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-45240/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-45240/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-24225-1 MS	FS-1	Total/NA	Solid	8015NM Prep	
880-24225-1 MSD	FS-1	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Ensolum
Project/Site: Marathon Battle

Job ID: 880-24225-1
SDG: Lea County, NM

GC Semi VOA

Analysis Batch: 45366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24225-1	FS-1	Total/NA	Solid	8015 NM	
880-24225-2	FS-2	Total/NA	Solid	8015 NM	
880-24225-3	FS-3	Total/NA	Solid	8015 NM	
880-24225-4	FS-4	Total/NA	Solid	8015 NM	
880-24225-5	FS-5	Total/NA	Solid	8015 NM	
880-24225-6	FS-6	Total/NA	Solid	8015 NM	
880-24225-7	FS-7	Total/NA	Solid	8015 NM	
880-24225-8	FS-8	Total/NA	Solid	8015 NM	
880-24225-9	FS-9	Total/NA	Solid	8015 NM	
880-24225-10	FS-10	Total/NA	Solid	8015 NM	
880-24225-11	SW-1	Total/NA	Solid	8015 NM	
880-24225-12	SW-2	Total/NA	Solid	8015 NM	
880-24225-13	SW-3	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 45235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24225-1	FS-1	Soluble	Solid	DI Leach	
880-24225-2	FS-2	Soluble	Solid	DI Leach	
880-24225-3	FS-3	Soluble	Solid	DI Leach	
880-24225-4	FS-4	Soluble	Solid	DI Leach	
880-24225-5	FS-5	Soluble	Solid	DI Leach	
880-24225-6	FS-6	Soluble	Solid	DI Leach	
880-24225-7	FS-7	Soluble	Solid	DI Leach	
MB 880-45235/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-45235/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-45235/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 45237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24225-8	FS-8	Soluble	Solid	DI Leach	
880-24225-9	FS-9	Soluble	Solid	DI Leach	
880-24225-10	FS-10	Soluble	Solid	DI Leach	
880-24225-11	SW-1	Soluble	Solid	DI Leach	
880-24225-12	SW-2	Soluble	Solid	DI Leach	
880-24225-13	SW-3	Soluble	Solid	DI Leach	
MB 880-45237/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-45237/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-45237/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-24225-8 MS	FS-8	Soluble	Solid	DI Leach	
880-24225-8 MSD	FS-8	Soluble	Solid	DI Leach	

Analysis Batch: 45288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24225-1	FS-1	Soluble	Solid	300.0	45235
880-24225-2	FS-2	Soluble	Solid	300.0	45235
880-24225-3	FS-3	Soluble	Solid	300.0	45235
880-24225-4	FS-4	Soluble	Solid	300.0	45235
880-24225-5	FS-5	Soluble	Solid	300.0	45235
880-24225-6	FS-6	Soluble	Solid	300.0	45235

Eurofins Midland

QC Association Summary

Client: Ensolum
Project/Site: Marathon Battle

Job ID: 880-24225-1
SDG: Lea County, NM

HPLC/IC (Continued)

Analysis Batch: 45288 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24225-7	FS-7	Soluble	Solid	300.0	45235
MB 880-45235/1-A	Method Blank	Soluble	Solid	300.0	45235
LCS 880-45235/2-A	Lab Control Sample	Soluble	Solid	300.0	45235
LCSD 880-45235/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	45235

Analysis Batch: 45293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24225-8	FS-8	Soluble	Solid	300.0	45237
880-24225-9	FS-9	Soluble	Solid	300.0	45237
880-24225-10	FS-10	Soluble	Solid	300.0	45237
880-24225-11	SW-1	Soluble	Solid	300.0	45237
880-24225-12	SW-2	Soluble	Solid	300.0	45237
880-24225-13	SW-3	Soluble	Solid	300.0	45237
MB 880-45237/1-A	Method Blank	Soluble	Solid	300.0	45237
LCS 880-45237/2-A	Lab Control Sample	Soluble	Solid	300.0	45237
LCSD 880-45237/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	45237
880-24225-8 MS	FS-8	Soluble	Solid	300.0	45237
880-24225-8 MSD	FS-8	Soluble	Solid	300.0	45237

Lab Chronicle

Client: Ensolum
Project/Site: Marathon Battle

Job ID: 880-24225-1
SDG: Lea County, NM

Client Sample ID: FS-1

Lab Sample ID: 880-24225-1

Date Collected: 02/01/23 00:00

Matrix: Solid

Date Received: 02/02/23 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			45403	MNR	EET MID	02/03/23 14:42
Total/NA	Analysis	8021B		1	45525	MNR	EET MID	02/05/23 14:11
Total/NA	Analysis	Total BTEX		1	45584	SM	EET MID	02/06/23 11:54
Total/NA	Analysis	8015 NM		1	45366	AJ	EET MID	02/03/23 11:33
Total/NA	Prep	8015NM Prep			45240	DM	EET MID	02/02/23 09:34
Total/NA	Analysis	8015B NM		1	45228	AJ	EET MID	02/02/23 21:22
Soluble	Leach	DI Leach			45235	KS	EET MID	02/02/23 09:25
Soluble	Analysis	300.0		1	45288	CH	EET MID	02/02/23 18:03

Client Sample ID: FS-2

Lab Sample ID: 880-24225-2

Date Collected: 02/01/23 00:00

Matrix: Solid

Date Received: 02/02/23 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			45403	MNR	EET MID	02/03/23 14:42
Total/NA	Analysis	8021B		1	45525	MNR	EET MID	02/05/23 14:31
Total/NA	Analysis	Total BTEX		1	45584	SM	EET MID	02/06/23 11:54
Total/NA	Analysis	8015 NM		1	45366	AJ	EET MID	02/03/23 11:33
Total/NA	Prep	8015NM Prep			45240	DM	EET MID	02/02/23 09:34
Total/NA	Analysis	8015B NM		1	45228	AJ	EET MID	02/02/23 22:26
Soluble	Leach	DI Leach			45235	KS	EET MID	02/02/23 09:25
Soluble	Analysis	300.0		1	45288	CH	EET MID	02/02/23 18:09

Client Sample ID: FS-3

Lab Sample ID: 880-24225-3

Date Collected: 02/01/23 00:00

Matrix: Solid

Date Received: 02/02/23 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			45403	MNR	EET MID	02/03/23 14:42
Total/NA	Analysis	8021B		1	45525	MNR	EET MID	02/05/23 14:52
Total/NA	Analysis	Total BTEX		1	45584	SM	EET MID	02/06/23 11:54
Total/NA	Analysis	8015 NM		1	45366	AJ	EET MID	02/03/23 11:33
Total/NA	Prep	8015NM Prep			45240	DM	EET MID	02/02/23 09:34
Total/NA	Analysis	8015B NM		1	45228	AJ	EET MID	02/02/23 22:47
Soluble	Leach	DI Leach			45235	KS	EET MID	02/02/23 09:25
Soluble	Analysis	300.0		1	45288	CH	EET MID	02/02/23 18:15

Client Sample ID: FS-4

Lab Sample ID: 880-24225-4

Date Collected: 02/01/23 00:00

Matrix: Solid

Date Received: 02/02/23 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			45403	MNR	EET MID	02/03/23 14:42
Total/NA	Analysis	8021B		1	45525	MNR	EET MID	02/05/23 15:12
Total/NA	Analysis	Total BTEX		1	45584	SM	EET MID	02/06/23 11:54

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: Marathon Battle

Job ID: 880-24225-1
SDG: Lea County, NM

Client Sample ID: FS-4

Lab Sample ID: 880-24225-4

Date Collected: 02/01/23 00:00

Matrix: Solid

Date Received: 02/02/23 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	45366	AJ	EET MID	02/03/23 11:33
Total/NA	Prep	8015NM Prep			45240	DM	EET MID	02/02/23 09:34
Total/NA	Analysis	8015B NM		1	45228	AJ	EET MID	02/02/23 23:08
Soluble	Leach	DI Leach			45235	KS	EET MID	02/02/23 09:25
Soluble	Analysis	300.0		1	45288	CH	EET MID	02/02/23 18:21

Client Sample ID: FS-5

Lab Sample ID: 880-24225-5

Date Collected: 01/31/23 00:00

Matrix: Solid

Date Received: 02/02/23 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			45403	MNR	EET MID	02/03/23 14:42
Total/NA	Analysis	8021B		1	45525	MNR	EET MID	02/05/23 15:32
Total/NA	Analysis	Total BTEX		1	45584	SM	EET MID	02/06/23 11:54
Total/NA	Analysis	8015 NM		1	45366	AJ	EET MID	02/03/23 11:33
Total/NA	Prep	8015NM Prep			45240	DM	EET MID	02/02/23 09:34
Total/NA	Analysis	8015B NM		1	45228	AJ	EET MID	02/02/23 23:29
Soluble	Leach	DI Leach			45235	KS	EET MID	02/02/23 09:25
Soluble	Analysis	300.0		1	45288	CH	EET MID	02/02/23 18:28

Client Sample ID: FS-6

Lab Sample ID: 880-24225-6

Date Collected: 01/31/23 00:00

Matrix: Solid

Date Received: 02/02/23 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			45403	MNR	EET MID	02/03/23 14:42
Total/NA	Analysis	8021B		1	45525	MNR	EET MID	02/05/23 15:53
Total/NA	Analysis	Total BTEX		1	45584	SM	EET MID	02/06/23 11:54
Total/NA	Analysis	8015 NM		1	45366	AJ	EET MID	02/03/23 11:33
Total/NA	Prep	8015NM Prep			45240	DM	EET MID	02/02/23 09:34
Total/NA	Analysis	8015B NM		1	45228	AJ	EET MID	02/02/23 23:50
Soluble	Leach	DI Leach			45235	KS	EET MID	02/02/23 09:25
Soluble	Analysis	300.0		1	45288	CH	EET MID	02/02/23 18:34

Client Sample ID: FS-7

Lab Sample ID: 880-24225-7

Date Collected: 01/31/23 00:00

Matrix: Solid

Date Received: 02/02/23 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			45403	MNR	EET MID	02/03/23 14:42
Total/NA	Analysis	8021B		1	45525	MNR	EET MID	02/05/23 16:13
Total/NA	Analysis	Total BTEX		1	45584	SM	EET MID	02/06/23 11:54
Total/NA	Analysis	8015 NM		1	45366	AJ	EET MID	02/03/23 11:33
Total/NA	Prep	8015NM Prep			45240	DM	EET MID	02/02/23 09:34
Total/NA	Analysis	8015B NM		1	45228	AJ	EET MID	02/03/23 00:12

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: Marathon Battle

Job ID: 880-24225-1
SDG: Lea County, NM

Client Sample ID: FS-7

Lab Sample ID: 880-24225-7

Date Collected: 01/31/23 00:00

Matrix: Solid

Date Received: 02/02/23 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			45235	KS	EET MID	02/02/23 09:25
Soluble	Analysis	300.0		1	45288	CH	EET MID	02/02/23 18:40

Client Sample ID: FS-8

Lab Sample ID: 880-24225-8

Date Collected: 01/31/23 00:00

Matrix: Solid

Date Received: 02/02/23 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			45403	MNR	EET MID	02/03/23 14:42
Total/NA	Analysis	8021B		1	45525	MNR	EET MID	02/05/23 16:34
Total/NA	Analysis	Total BTEX		1	45584	SM	EET MID	02/06/23 11:54
Total/NA	Analysis	8015 NM		1	45366	AJ	EET MID	02/03/23 11:33
Total/NA	Prep	8015NM Prep			45240	DM	EET MID	02/02/23 09:34
Total/NA	Analysis	8015B NM		1	45228	AJ	EET MID	02/03/23 00:33
Soluble	Leach	DI Leach			45237	KS	EET MID	02/02/23 15:00
Soluble	Analysis	300.0		1	45293	CH	EET MID	02/02/23 23:05

Client Sample ID: FS-9

Lab Sample ID: 880-24225-9

Date Collected: 01/31/23 00:00

Matrix: Solid

Date Received: 02/02/23 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			45403	MNR	EET MID	02/03/23 14:42
Total/NA	Analysis	8021B		1	45525	MNR	EET MID	02/05/23 16:54
Total/NA	Analysis	Total BTEX		1	45584	SM	EET MID	02/06/23 11:54
Total/NA	Analysis	8015 NM		1	45366	AJ	EET MID	02/03/23 11:33
Total/NA	Prep	8015NM Prep			45240	DM	EET MID	02/02/23 09:34
Total/NA	Analysis	8015B NM		1	45228	AJ	EET MID	02/03/23 00:55
Soluble	Leach	DI Leach			45237	KS	EET MID	02/02/23 15:00
Soluble	Analysis	300.0		1	45293	CH	EET MID	02/02/23 23:23

Client Sample ID: FS-10

Lab Sample ID: 880-24225-10

Date Collected: 02/01/23 00:00

Matrix: Solid

Date Received: 02/02/23 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			45403	MNR	EET MID	02/03/23 14:42
Total/NA	Analysis	8021B		1	45525	MNR	EET MID	02/05/23 17:15
Total/NA	Analysis	Total BTEX		1	45584	SM	EET MID	02/06/23 11:54
Total/NA	Analysis	8015 NM		1	45366	AJ	EET MID	02/03/23 11:33
Total/NA	Prep	8015NM Prep			45240	DM	EET MID	02/02/23 09:34
Total/NA	Analysis	8015B NM		1	45228	AJ	EET MID	02/03/23 01:16
Soluble	Leach	DI Leach			45237	KS	EET MID	02/02/23 15:00
Soluble	Analysis	300.0		1	45293	CH	EET MID	02/02/23 23:30

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: Marathon Battle

Job ID: 880-24225-1
SDG: Lea County, NM

Client Sample ID: SW-1

Lab Sample ID: 880-24225-11

Date Collected: 02/01/23 00:00

Matrix: Solid

Date Received: 02/02/23 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			45403	MNR	EET MID	02/03/23 14:42
Total/NA	Analysis	8021B		1	45525	MNR	EET MID	02/05/23 19:05
Total/NA	Analysis	Total BTEX		1	45584	SM	EET MID	02/06/23 11:54
Total/NA	Analysis	8015 NM		1	45366	AJ	EET MID	02/03/23 11:33
Total/NA	Prep	8015NM Prep			45240	DM	EET MID	02/02/23 09:34
Total/NA	Analysis	8015B NM		1	45228	AJ	EET MID	02/03/23 02:00
Soluble	Leach	DI Leach			45237	KS	EET MID	02/02/23 15:00
Soluble	Analysis	300.0		1	45293	CH	EET MID	02/02/23 23:36

Client Sample ID: SW-2

Lab Sample ID: 880-24225-12

Date Collected: 02/01/23 00:00

Matrix: Solid

Date Received: 02/02/23 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			45403	MNR	EET MID	02/03/23 14:42
Total/NA	Analysis	8021B		1	45525	MNR	EET MID	02/05/23 19:26
Total/NA	Analysis	Total BTEX		1	45584	SM	EET MID	02/06/23 11:54
Total/NA	Analysis	8015 NM		1	45366	AJ	EET MID	02/03/23 11:33
Total/NA	Prep	8015NM Prep			45240	DM	EET MID	02/02/23 09:34
Total/NA	Analysis	8015B NM		1	45228	AJ	EET MID	02/03/23 02:21
Soluble	Leach	DI Leach			45237	KS	EET MID	02/02/23 15:00
Soluble	Analysis	300.0		1	45293	CH	EET MID	02/02/23 23:42

Client Sample ID: SW-3

Lab Sample ID: 880-24225-13

Date Collected: 02/01/23 00:00

Matrix: Solid

Date Received: 02/02/23 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			45403	MNR	EET MID	02/03/23 14:42
Total/NA	Analysis	8021B		1	45525	MNR	EET MID	02/05/23 19:46
Total/NA	Analysis	Total BTEX		1	45584	SM	EET MID	02/06/23 11:54
Total/NA	Analysis	8015 NM		1	45366	AJ	EET MID	02/03/23 11:33
Total/NA	Prep	8015NM Prep			45240	DM	EET MID	02/02/23 09:34
Total/NA	Analysis	8015B NM		1	45228	AJ	EET MID	02/03/23 02:43
Soluble	Leach	DI Leach			45237	KS	EET MID	02/02/23 15:00
Soluble	Analysis	300.0		1	45293	CH	EET MID	02/03/23 00:00

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Marathon Battle

Job ID: 880-24225-1
SDG: Lea County, NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: Marathon Battle

Job ID: 880-24225-1
SDG: Lea County, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

- EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: Marathon Battle

Job ID: 880-24225-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-24225-1	FS-1	Solid	02/01/23 00:00	02/02/23 08:15	3
880-24225-2	FS-2	Solid	02/01/23 00:00	02/02/23 08:15	3
880-24225-3	FS-3	Solid	02/01/23 00:00	02/02/23 08:15	3
880-24225-4	FS-4	Solid	02/01/23 00:00	02/02/23 08:15	3
880-24225-5	FS-5	Solid	01/31/23 00:00	02/02/23 08:15	3
880-24225-6	FS-6	Solid	01/31/23 00:00	02/02/23 08:15	3
880-24225-7	FS-7	Solid	01/31/23 00:00	02/02/23 08:15	3
880-24225-8	FS-8	Solid	01/31/23 00:00	02/02/23 08:15	3
880-24225-9	FS-9	Solid	01/31/23 00:00	02/02/23 08:15	3
880-24225-10	FS-10	Solid	02/01/23 00:00	02/02/23 08:15	3
880-24225-11	SW-1	Solid	02/01/23 00:00	02/02/23 08:15	3
880-24225-12	SW-2	Solid	02/01/23 00:00	02/02/23 08:15	3
880-24225-13	SW-3	Solid	02/01/23 00:00	02/02/23 08:15	3



Environment Testing

Houston, TX (281) 240-4200, Dallas TX (214) 902-0300
Midland, TX (432) 704-5440 San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550 Carlsbad NM (575) 988-3199

Chain of Custody

Work Order No:

2225

www.xenco.com Page 7 of 2

Project Manager:	Joseph Hernandez		Bill to: (if different)	
Company Name:	Ensolva LLC		Company Name:	
Address:	601 MacArthur Blvd		Address:	
City, State Zip:	Midland TX	79701	City, State Zip:	
Phone	432 230 3344	Email:	Jhernandez@ensolva.com	

Work Order Comments				
Program:	UST/PST <input type="checkbox"/>	PRP <input type="checkbox"/>	Brownfields <input type="checkbox"/>	RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:				
Reporting	Level II <input type="checkbox"/>	Level III <input type="checkbox"/>	PST/UST <input type="checkbox"/>	TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables	EDD <input type="checkbox"/>	Adapt <input type="checkbox"/>	Other	

Project Name:	Marietta, GA	Turn Around
Project Number:	03A2040006	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush 24
Project Location:	Lee County NM	Due Date:
Sampler's Name:	Shane Diller	TAT starts the day received by the lab, if received by 4:30pm
PO #	03A2040006	

SAMPLE RECEIPT		
Samples Received Intact:	Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Cooler Custody Seals:		Thermometer ID:
Sample Custody Seals:		Correction Factor:
		Temperature Reading:
Total Containers:		Corrected Temperature:

ANALYSIS REQUEST							Preservative Codes
Parameters							
PH 8015m							None NO DI Water H ₂ O
EK 80216							Cool Cool MeOH Me
barides 4500							HCL HC HNO ₃ HN
							H ₂ SO ₄ H ₂
							H ₃ PO ₄ HP
							NaHSO ₄ NABIS
							Na ₂ S ₂ O ₃ NASO ₃
							Zn Acetate+NaOH Zn
							NaOH+Ascorbic Acid SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont
E-5-1	S	2-1-23	1345	3	C	/
E-5-2	S	2-1-23	1130	2	C	/
E-5-3	S	2-1-23	1348	3	C	/
E-5-4	S	2-1-23	1134	2	C	/
E-5-5	S	1-31-23	1520	2	C	/
E-5-6	S	1-31-23	1522	2	C	/
E-5-7	S	1-31-23	1524	2	C	/
E-5-8	S	1-31-23	1526	2	C	/
E-5-9	S	2-01-23	1520	2	C	/
E-5-10	S	2-01-23	1522	2	C	/

880-24225 Chain of Custody

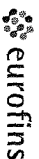
Sample Comments

 402



850-24225 Chain of Custody

Custody Seal 1-6-23



Environ & Testing TestApp-402

100077

Total 2007 / 6010					
Circle Method(s) and					
LZ00001					
Custody Seal 1-6-23					
eurofins					
Environment & Testing TestAmerica					
1000077					
Notice: Signature of this document of service. Eurofins Xencro will be liable for Eurofins Xencro. Antimium che					
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
[Signature]	[Signature]	2/2/23	[Signature]	[Signature]	



Environment Testing
Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad NM (575) 988-3199

Work Order No:

24225

www.xenco.com Page 2 of 2

Project Manager	Joseph Hernandez	Bill to: (if different)	
Company Name	Ensolun LLC	Company Name	
Address	601 Mainfield 400	Address	
City, State ZIP	Midland TX 79701	City, State ZIP	
Phone	432 230 3344	Email	jhernandez@ensolun.com

Work Order Comments	
Program: <input type="checkbox"/> UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund	
State of Project:	
Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other	

Project Name	MAATHEW BATTLE	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush 24	Pres. Code		ANALYSIS REQUEST		Preservative Codes
Project Number	03A2040006	Due Date						None NO DI Water H ₂ O
Project Location	Lee Co. PM	TAT starts the day received by the lab, if received by 4:30pm						Cool Cool MeOH Me
Sampler's Name	Shane D. H.							HCL HC HNO ₃ HN
PO #	03A2040006							H ₂ SO ₄ H ₂ H ₃ PO ₄ HP
SAMPLE RECEIPT	Temp Blank: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Wet Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						NaHSO ₄ NABIS
Samples Received Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Thermometer ID:						Na ₂ S ₂ O ₃ NaSO ₃
Cooler Custody Seals:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Correction Factor						Zn Acetate+NaOH Zn
Sample Custody Seals:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Temperature Reading						NaOH+Ascorbic Acid SAPC
Total Containers:		Corrected Temperature						
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont		Sample Comments
SW-1	S	2-1-23	1507	0-2	C	1		TPH 8015M
SW-2	S	2-1-23	1510	0-2	C	1		BTEX 80216
SW-3	S	2-1-23	1525	0-2	C	1		Chlorides 4500

CUSTODY SEAL
DATE 2-2-23
SIGNATURE [Signature]
QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010	8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Hg 1631 / 245 1 / 7470 / 7471

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
[Signature]	[Signature]	2/2/23	[Signature]	[Signature]	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-24225-1
SDG Number: Lea County, NM

Login Number: 24225

List Number: 1

Creator: Teel, Brianna

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Joseph Hernandez
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 2/9/2023 9:05:32 AM

JOB DESCRIPTION

MARATHON BATTLE
SDG NUMBER Lea County NM

JOB NUMBER

890-4050-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Eurofins Carlsbad**Job Notes**

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated
2/9/2023 9:05:32 AM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Ensolum
Project/Site: MARATHON BATTLE

Laboratory Job ID: 890-4050-1
SDG: Lea County NM

Table of Contents

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Definitions/Glossary

Client: Ensolum
Project/Site: MARATHON BATTLE

Job ID: 890-4050-1
SDG: Lea County NM

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum
Project/Site: MARATHON BATTLE

Job ID: 890-4050-1
SDG: Lea County NM

Job ID: 890-4050-1

Laboratory: Eurofins Carlsbad

Narrative	
	Job Narrative 890-4050-1

Receipt

The sample was received on 2/7/2023 3:00 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: FS-5 (890-4050-1).

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Client Sample Results

Client: Ensolum
Project/Site: MARATHON BATTLE

Job ID: 890-4050-1
SDG: Lea County NM

Client Sample ID: FS-5
Date Collected: 02/07/23 13:11
Date Received: 02/07/23 15:00
Sample Depth: 3

Lab Sample ID: 890-4050-1
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	179		5.00	mg/Kg			02/08/23 19:33	1	

QC Sample Results

Client: Ensolum
Project/Site: MARATHON BATTLE

Job ID: 890-4050-1
SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-45808/1-A

Matrix: Solid

Analysis Batch: 45829

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			02/08/23 16:44	1

Lab Sample ID: LCS 880-45808/2-A

Matrix: Solid

Analysis Batch: 45829

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	239.1		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-45808/3-A

Matrix: Solid

Analysis Batch: 45829

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	234.5		mg/Kg		94	90 - 110	2	20

Lab Sample ID: 890-4042-A-3-E MS

Matrix: Solid

Analysis Batch: 45829

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	<4.96	U	248	239.4		mg/Kg		95	90 - 110

Lab Sample ID: 890-4042-A-3-F MSD

Matrix: Solid

Analysis Batch: 45829

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<4.96	U	248	241.6		mg/Kg		96	90 - 110	1	20

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: MARATHON BATTLE

Job ID: 890-4050-1
SDG: Lea County NM

HPLC/IC

Leach Batch: 45808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4050-1	FS-5	Soluble	Solid	DI Leach	
MB 880-45808/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-45808/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-45808/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4042-A-3-E MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4042-A-3-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 45829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4050-1	FS-5	Soluble	Solid	300.0	45808
MB 880-45808/1-A	Method Blank	Soluble	Solid	300.0	45808
LCS 880-45808/2-A	Lab Control Sample	Soluble	Solid	300.0	45808
LCSD 880-45808/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	45808
890-4042-A-3-E MS	Matrix Spike	Soluble	Solid	300.0	45808
890-4042-A-3-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	45808

Lab Chronicle

Client: Ensolum
Project/Site: MARATHON BATTLE

Job ID: 890-4050-1
SDG: Lea County NM

Client Sample ID: FS-5
Date Collected: 02/07/23 13:11
Date Received: 02/07/23 15:00

Lab Sample ID: 890-4050-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	45808	02/08/23 14:58	KS	EET MID
Soluble	Analysis	300.0		1			45829	02/08/23 19:33	CH	EET MID

Laboratory References:
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

Client: Ensolum
Project/Site: MARATHON BATTLE

Job ID: 890-4050-1
SDG: Lea County NM

Laboratory: Eurofins Midland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

- 1
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- 13

Method Summary

Client: Ensolum
Project/Site: MARATHON BATTLE

Job ID: 890-4050-1
SDG: Lea County NM

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

- Protocol References:**
- ASTM = ASTM International
 - EPA = US Environmental Protection Agency
- Laboratory References:**
- EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: MARATHON BATTLE

Job ID: 890-4050-1
SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4050-1	FS-5	Solid	02/07/23 13:11	02/07/23 15:00	3

- 1
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- 8
- 9
- 10
- 11
- 12
- 13

- 1
- 2
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- 4
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- 6
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- 10
- 11
- 12
- 13



Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

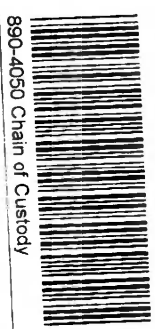
Work Order No: _____

www.xencocom Page 1 of 1

Project Manager:	Joseph Hernandez	Bill to: (if different)	
Company Name:	Ensolera LLC	Company Name:	
Address:	601 Maricopa Blvd 400	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-230-3344	Email:	

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:	Murphyville	Tum Around	Pres. Code				
Project Number:	63A2040006	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush					
Project Location:	Lee County NM	Due Date:	1 Day				
Sampler's Name:	Kaile Smith	TAT starts the day received by the lab, if received by 4:30pm					
PO #:	031204000						
SAMPLE RECEIPT							
Samples Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	711003				
Cooler Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Correction Factor:	-0.2				
Sample Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Temperature Reading:	4.2				
Total Containers:		Corrected Temperature:	4.0				
Parameters							
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	
FS-5		2-7-23	1311	3'	C	1	X
Chlorides 300.0							



890-4050 Chain of Custody

ANALYSIS REQUEST															
Preservative Codes															
None: NO DI Water: H ₂ O															
Cool: Cool MeOH: Me															
HCL: HC HNO ₃ : HN															
H ₂ SO ₄ : H ₂ NaOH: Na															
H ₃ PO ₄ : HP NaHSO ₄ : NABIS															
Na ₂ S ₂ O ₃ : NASO ₃ Zn Acetate+NaOH: Zn															
NaOH+Ascorbic Acid: SABC															
Sample Comments															

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Hg: 1631 / 245.1 / 7470 / 7471	
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.			
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)
		2-7-23 1500	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4050-1

SDG Number: Lea County NM

Login Number: 4050

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4050-1

SDG Number: Lea County NM

Login Number: 4050

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 02/08/23 02:46 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



APPENDIX F

C-141

District I

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

District II

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

District III

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

District IV

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

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

QUESTIONS

Action 176695

QUESTIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 176695
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	Marathon Battle 1-2 Battery
Date Release Discovered	01/17/2023
Surface Owner	Private

Incident Details	
<i>Please answer all the questions in this group.</i>	
Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	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	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Cause: Human Error Transport Crude Oil Released: 31 BBL Recovered: 0 BBL Lost: 31 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of dissolved chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Cause: Overflow - Tank, Pit, Etc. Transport Crude Oil Released: 31 BBL Recovered: 0 BBL Lost: 31 BBL.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Crude transport driver was away from controls during loading operations and overfilled tank trailer. All released crude remained on the tank battery pad. OGRID 329124

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1000 Rio Brazos Rd., Aztec, NM 87410
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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 2

Action 176695

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 176695
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by 19.15.29.7(A) NMAC	Yes, major release.
Reasons why this would be considered a submission for a notification of a major release	<ul style="list-style-type: none"> Unauthorized release of a volume, excluding gases, of 25 barrels or more
If YES, was immediate notice given to the OCD, by whom	Not answered.
If YES, was immediate notice given to the OCD, to whom	Not answered.
If YES, was immediate notice given to the OCD, when	Not answered.
If YES, was immediate notice given to the OCD, by what means (phone, email, etc.)	Online NOR
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 19.15.29.8 B. (4) 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 19.15.29.11(A)(5)(a) NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

District I

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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

ACKNOWLEDGMENTS

Action 176695

ACKNOWLEDGMENTS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 176695
	Action Type: [NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I acknowledge that I am authorized to submit notification of a releases on behalf of my operator.
<input checked="" type="checkbox"/>	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	I acknowledge the fact that 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.
<input checked="" type="checkbox"/>	I acknowledge the fact that, 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.

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Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 176695

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 176695
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
caspo	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	1/17/2023

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	nAPP2301754624
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Enterprise Field Services, LLC	OGRID: 329124
Contact Name: Christopher Spore	Contact Telephone: 432-214-3264
Contact email: caspore@eprod.com	Incident # nAPP2301754624
Contact mailing address: PO Box 4324, Houston, TX 77210	

Location of Release Source

Latitude 32.442317

Longitude -103.553149

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Marathon Battle 1-2 Battery	Site Type: Central Tank Battery
Date Release Discovered: 1/17/2023	API# (if applicable)

Unit Letter	Section	Township	Range	County
A	34	21S	33E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: Marathon Oil Permian LLC)

Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls): 31	Volume Recovered (bbls): 0
<input type="checkbox"/> Produced Water	Volume Released (bbls):	Volume Recovered (bbls):
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Crude transport driver was away from controls during loading operations and overfilled tank trailer. All released crude remained on the tank battery pad.

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2301754624
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?

☒ Yes ☐ No

If YES, for what reason(s) does the responsible party consider this a major release?
Unauthorized release of a volume, excluding gases, of 25 barrels or more.

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
Yes, by Christopher Spore of Enterprise via the OCD Notification of Release (NOR) portal on 1/17/2023 at 1235.

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.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☒ All free liquids and recoverable materials have been removed and managed appropriately.

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

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

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

Printed Name: Christopher Spore

Title: Lead Field Environmental

Signature: 

Date: 03/15/2023

email: caspore@eprod.com

Telephone: 432-214-3264

OCD Only

Received by: Jocelyn Harimon

Date: 03/28/2023

Incident ID	nAPP2301754624
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?	N/A (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	nAPP2301754624
District RP	
Facility ID	
Application ID	

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

Printed Name: Christopher Spore

Title: Lead Field Environmental

Signature: 

Date: 03/15/2023

email: caspore@eprod.com

Telephone: 432-214-3264

OCD Only

Received by: Jocelyn Harimon

Date: 03/28/2023

Incident ID	nAPP2301754624
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: Christopher Spore

Title: Lead Field Environmental

Signature: 

Date: 03/15/2023

email: caspore@eprod.com

Telephone: 432-214-3264

OCD Only

Received by: Jocelyn Harimon

Date: 03/28/2023

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: 05/01/2023

Printed Name: Jennifer Nobui

Title: Environmental Specialist A



APPENDIX G

Disposal Documentation

Page 94 of 103
Received by OCD: 3/28/2023 10:56:09 AM
Released to Imaging: 5/1/2023 1:00:06 PM



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Information

Name _____

Phone No. _____

GENERATOR

NO. 825340

Operator No. _____
Operators Name _____
Address _____
City, State, Zip _____
Phone No. _____

Permit/RRC No. _____
Lease/Well Name & No. Pallito 002-1
County _____
API No. _____
Rig Name & No. _____
AFE/PO No. _____

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

NON-INJECTABLE WATERS		INJECTABLE WATERS	
Oil Based Muds	_____	Washout Water (Injectable)	_____
Oil Based Cuttings	_____	Completion Fluid/Flow Back (Injectable)	_____
Waste Based Muds	_____	Produced Water (Injectable)	_____
Water Based Cuttings	_____	Gathering Line Water/Waste (Injectable)	_____
Produced Formation Solids	_____	OTHER EXEMPT WASTES (type and generation process of the waste)	
Tank Bottoms	_____		
E&P Contaminated Soil	_____		
Gas Plant Waste	_____		

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

*please select from Non-Exempt Waste List on back

Non-Exempt Other _____

QUANTITY B - BARRELS L - LIQUID Y - YARDS FO E - EACH

hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- ☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)
- ☐ EMERGENCY NON-OILFIELD Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE _____

DATE _____

SIGNATURE _____

TRANSPORTER

Transporter's Name _____
Address _____
Phone No. _____

Driver's Name _____
Phone No. _____
Truck No. _____

hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE _____

DRIVER'S SIGNATURE _____

DELIVERY DATE _____

DRIVER'S SIGNATURE _____

TRUCK TIME STAMP

IN: _____ OUT: _____

DISPOSAL FACILITY

RECEIVING AREA

Name/No. _____

Site Name/Permit No. Halfway Facility / NM1-006
Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220

Phone No. 575-887-6504

NORM READINGS TAKEN? (Circle One) YES NO
PASS THE PAINT FILTER TEST? (Circle One) YES NO

If YES, was reading > 50 micro roentgens? (Circle One) YES NO
NORM (mR/hr) _____

TANK BOTTOMS

Feet		Inches		BS&W/BBLS Received		BS&W (%)	
1st Gauge	_____	_____	_____	Free Water	_____	_____	_____
2nd Gauge	_____	_____	_____	Total Received	_____	_____	_____
Received	_____	_____	_____				

hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why? _____

NAME (PRINT) _____

DATE _____

TITLE _____

SIGNATURE _____

C-138

donc@northstarforms.com (877)499-0492

White - R360 ORIGINAL

Yellow- TRANSPORTER COPY

Pink- GENERATOR SITE COPY

Gold- RETURN TO GENERATOR

308 10-02



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Information

Name Hobbs Company

Phone No. 575-788-6504

GENERATOR

NO. 825335

Operator No. _____
Operators Name Hobbs Oil Services LLC
Address _____
City, State, Zip _____
Phone No. _____

Permit/RRC No. _____
Lease/Well Name & No. Boyle 0024
County _____
API No. _____
Rig Name & No. _____
AFE/PO No. _____

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds _____
Oil Based Cuttings _____
Waste Based Muds _____
Water Based Cuttings _____
Produced Formation Solids _____
Tank Bottoms _____
E&P Contaminated Soil _____
Gas Plant Waste _____

NON-INJECTABLE WATERS

Washout Water (Non-Injectable) _____
Completion Fluid/Flow Back (Non-Injectable) _____
Produced Water (Non-Injectable) _____
Gathering Line Water/Waste (Non-Injectable) _____

INTERNAL USE ONLY

Truck Washout (exempt waste) _____

INJECTABLE WATERS

Washout Water (Injectable) _____
Completion Fluid/Flow Back (Injectable) _____
Produced Water (Injectable) _____
Gathering Line Water/Waste (Injectable) _____

OTHER EXEMPT WASTES (type and generation process of the waste) _____

WASTE GENERATION PROCESS:

☐ DRILLING

☐ COMPLETION

☐ PRODUCTION

☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), ignitability, Corrosivity and Reactivity
*please select from Non-Exempt Waste List on back

Non-Exempt Other _____

B - BARRELS

L - LIQUID

Y - YARDS

E - EACH

QUANTITY

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulation 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information

☐ RCRA Hazardous Waste Analysis

☐ Other (Provide Description Below)

☐ EMERGENCY NON-OILFIELD

Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

TRANSPORTER

Transporter's Name Creed Inc.
Address _____
Phone No. _____

Driver's Name Paul Zapata
Phone No. 212-11
Truck No. _____

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP

IN: _____ OUT: _____

DISPOSAL FACILITY

RECEIVING AREA

Name/No. _____

Site Name/
Permit No.
Address

Halfway Facility / NM1-006
6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220

Phone No. 575-887-6504

NORM READINGS TAKEN? (Circle One) YES NO
PASS THE PAINT FILTER TEST? (Circle One) YES NO

If YES, was reading > 50 micro roentgens? (Circle One) YES NO
NORM (mR/hr) _____

TANK BOTTOMS

1st Gauge _____
2nd Gauge _____
Received _____

BS&W/BBLs Received _____
Free Water _____
Total Received _____

BS&W (%) _____

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

C-138

donc@northstarforms.com (877)499-0492

White - R360 ORIGINAL

Yellow- TRANSPORTER COPY

Pink- GENERATOR SITE COPY

Gold- RETURN TO GENERATOR

Page 96 of 103
Received by OGD: 3/28/2023 10:56:09 AM
Released to Imaging: 5/1/2023 1:00:06 PM



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

REQUIRED INFORMATION

Company Man Contact Information

Name Delecia J. Smith

Phone No. 505-194-9797

GENERATOR

NO. 828338

Operator No. _____
Operators Name Hamilton Oil & Gas LLC
Address _____
City, State, Zip _____
Phone No. _____

Permit/RRC No. _____
Lease/Well Name & No. Lease 0024
County _____
API No. _____
Rig Name & No. _____
AFE/PO No. _____

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

	NON-INJECTABLE WATERS	INJECTABLE WATERS
Oil Based Muds	Washout Water (Non-Injectable)	Washout Water (Injectable)
Oil Based Cuttings	Completion Fluid/Flow Back (Non-Injectable)	Completion Fluid/Flow Back (Injectable)
Waste Based Muds	Produced Water (Non-Injectable)	Produced Water (Injectable)
Water Based Cuttings	Gathering Line Water/Waste (Non-Injectable)	Gathering Line Water/Waste (Injectable)
Produced Formation Solids		
Tank Bottoms	INTERNAL USE ONLY	OTHER EXEMPT WASTES (type and generation process of the waste)
E&P Contaminated Soil	Truck Washout (exempt waste)	
Gas Plant Waste		

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

*please select from Non-Exempt Waste List on back

Non-Exempt Other _____

QUANTITY B - BARRELS L - LIQUID Y - YARDS 20 E - EACH

hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- ☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)
- ☐ EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

TRANSPORTER

Transporter's Name Crescent Inc.
Address _____
Phone No. _____

Driver's Name David Flores
Phone No. _____
Truck No. 71-777

hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP

DISPOSAL FACILITY

RECEIVING AREA

IN: _____ OUT: _____

Name/No. _____

Site Name/ Permit No. Halfway Facility / NM1-006
Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220

Phone No. 575-887-6504

NORM READINGS TAKEN? (Circle One) YES NO If YES, was reading > 50 micro roentgens? (Circle One) YES NO
PASS THE PAINT FILTER TEST? (Circle One) YES NO NORM (mR/hr) _____

TANK BOTTOMS

Feet Inches

Guage	
Guage	
Received	

BS&W/BBLs Received		BS&W (%)	
Free Water			
Total Received			

hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

White - R360 ORIGINAL

Yellow- TRANSPORTER COPY

Pink- GENERATOR SITE COPY

Gold- RETURN TO GENERATOR

138

nc@northstarforms.com (877)499-0492

308.R360-240



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

Name Delia L. Roman

Phone No. 505-298-5151

(PLEASE PRINT)

REQUIRED INFORMATION

GENERATOR

NO. 810049

Operator No. _____
 Operators Name Albuquerque Petroleum LLC
 Address _____
 City, State, Zip _____
 Phone No. _____

Permit/RRC No. _____
 Lease/Well _____
 Name & No. Butte 0024
 County _____
 API No. _____
 Rig Name & No. 11A
 AFE/PO No. _____

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

	NON-INJECTABLE WATERS	INJECTABLE WATERS
Oil Based Muds _____	Washout Water (Non-Injectable) _____	Washout Water (Injectable) _____
Oil Based Cuttings _____	Completion Fluid/Flow Back (Non-Injectable) _____	Completion Fluid/Flow Back (Injectable) _____
Waste Based Muds _____	Produced Water (Non-Injectable) _____	Produced Water (Injectable) _____
Water Based Cuttings _____	Gathering Line Water/Waste (Non-Injectable) _____	Gathering Line Water/Waste (Injectable) _____
Produced Formation Solids _____		
Tank Bottoms _____	INTERNAL USE ONLY	OTHER EXEMPT WASTES (type and generation process of the waste)
E&P Contaminated Soil _____	Truck Washout (exempt waste) _____	
Gas Plant Waste _____		

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

QUANTITY B - BARRELS L - LIQUID Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- ☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)
- ☐ EMERGENCY NON-OILFIELD Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

TRANSPORTER

Transporter's Name Orca Transport
 Address _____
 Phone No. _____

Driver's Name D. J. Roman
 Phone No. _____
 Truck No. 112

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP

IN: _____ OUT: _____

DISPOSAL FACILITY

RECEIVING AREA

Name/No. _____

Site Name/ Permit No. Halfway Facility / NM1-006
 Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220

Phone No. 575-887-6504

NORM READINGS TAKEN? (Circle One) YES NO
 PASS THE PAINT FILTER TEST? (Circle One) YES NO

If YES, was reading > 50 micro roentgens? (Circle One) YES NO
 NORM (mR/hr) _____

TANK BOTTOMS

Feet Inches

Guage		
nd Guage		
ceived		

BS&W/BBLS Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

138

nc@northstarforms.com (877)499-0492

White - R360 ORIGINAL

Yellow- TRANSPORTER COPY

Pink- GENERATOR SITE COPY

Gold- RETURN TO GENERATOR

308.R360.0240

Received by: OGD: 3/28/2023 10:56:09 AM

Released to Imaging: 5/1/2023 1:00:06 PM



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

REQUIRED INFORMATION

Company Man Contact Information
Name: Michael Sanchez
Phone No. 505-985-1153

Generator No. _____
Generator's Name _____
Address _____
City, State, Zip _____
Phone No. _____

GENERATOR

Permit/RRC No. _____
Lease/Well Name & No. Battle CO2H
County Alfalfa
API No. _____
Rig Name & No. _____
AFE/PO No. _____

NO. 510048

City, State, Zip		AFE/PO No.		ing No.	
Phone No.		place volume next to waste type in barrels or cubic yards)			
EXEMPT E&P Waste/Service Identification and Amount		INJECTABLE WATERS			
Oil Based Muds		Washout Water (Non-Injectable)		Washout Water (Injectable)	
Oil Based Cuttings		Completion Fluid/Flow Back (Non-Injectable)		Completion Fluid/Flow Back (Injectable)	
Waste Based Muds		Produced Water (Non-Injectable)		Produced Water (Injectable)	
Water Based Cuttings		Gathering Line Water/Waste (Non-Injectable)		Gathering Line Water/Waste (injectable)	
Produced Formation Solids				OTHER EXEMPT WASTES (type and generation process of the waste)	
Tank Bottoms		INTERNAL USE ONLY			
E&P Contaminated Soil		Truck Washout (exempt waste)			
Gas Plant Waste					
PROCESS:		<input type="checkbox"/> DRILLING	<input type="checkbox"/> COMPLETION	<input type="checkbox"/> PRODUCTION	<input type="checkbox"/> GATHERING LINES
E&P Waste/Service Identification and Amount		ignitability, Corrosivity and Reactivity			
		List on back			

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount (type and generation process of the waste)

All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity. *please select from Non-Exempt Waste List on back

Non-Exempt Other _____ B - BARRELS L - LIQUID Y - YARDS E - EACH

QUANTITY

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications per load basis only)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulation 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating that waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

☐ EMERGENCY NON-OILFIELD Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE _____

TRANSPORTER

Transporter's Name _____
Address _____

Driver's Name _____
Phone No. _____
Truck No. _____

SIGNATURE _____

Phone No. _____
I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE _____

DRIVER'S SIGNATURE _____

DELIVERY DATE _____

DRIVER'S SIGNATURE _____

TRUCK TIME STAMP
IN: _____ OUT: _____

DISPOSAL FACILITY

RECEIVING AREA

Name/No. _____

Site Name/Permit No. Halfway Facility / NM1-006
Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220

NORM READINGS TAKEN? (Circle One) YES _____ NO _____
PASS THE PAINT FILTER TEST? (Circle One) YES _____ NO _____

Phone No. 575-887-6504

If YES, was reading > 50 micro roentgens? (Circle One) YES _____ NO _____
NORM (mR/hr) _____

TANK BOTTOMS

	Feet	Inches
1st Gauge	_____	_____
2nd Gauge	_____	_____
Received	_____	_____

BS&W/BBLS Received	BS&W
Free Water	_____
Total Received	_____

I hereby certify that the above load material has been (circle one): ACCEPTED _____ DENIED _____
If denied, why? _____
DATE _____ TITLE _____ SIGNATURE _____



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

REQUIRED INFORMATION

Company Man Contact Information

Name Helene Santos

Phone No. 505-784-5211

GENERATOR

NO. 625336

Operator No. _____
Operators Name North Star Oil Refining LLC
Address _____
City, State, Zip _____
Phone No. _____

Permit/RRC No. _____
Lease/Well Name & No. Collier 002H
County _____
API No. _____
Rig Name & No. _____
AFE/PO No. _____

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds _____
Oil Based Cuttings _____
Waste Based Muds _____
Water Based Cuttings _____
Produced Formation Solids _____
Tank Bottoms _____
E&P Contaminated Soil _____
Gas Plant Waste _____

NON-INJECTABLE WATERS
Washout Water (Non-Injectable) _____
Completion Fluid/Flow Back (Non-Injectable) _____
Produced Water (Non-Injectable) _____
Gathering Line Water/Waste (Non-Injectable) _____
INTERNAL USE ONLY
Truck Washout (exempt waste) _____

INJECTABLE WATERS
Washout Water (Injectable) _____
Completion Fluid/Flow Back (Injectable) _____
Produced Water (Injectable) _____
Gathering Line Water/Waste (Injectable) _____
OTHER EXEMPT WASTES (type and generation process of the waste) _____

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.
*please select from Non-Exempt Waste List on back

Non-Exempt Other _____
QUANTITY B - BARRELS L - LIQUID Y - YARDS 20 E - EACH

hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- ☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)
- ☐ EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

TRANSPORTER

Transporter's Name Good Inc.
Address _____
Phone No. _____

Driver's Name _____
Phone No. _____
Truck No. _____

hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP

DISPOSAL FACILITY

RECEIVING AREA

IN: _____ OUT: _____

Name/No. _____

Site Name/
Permit No.
Address

Halfway Facility / NM1-006

6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220

Phone No. **575-887-6504**

NORM READINGS TAKEN? (Circle One) YES NO
PASS THE PAINT FILTER TEST? (Circle One) YES NO

If YES, was reading > 50 micro roentgens? (Circle One) YES NO
NORM (mR/hr) _____

TANK BOTTOMS

Feet _____ Inches _____
1st Gauge _____
2nd Gauge _____
Received _____

BS&W/BBLS Received _____
Free Water _____
Total Received _____
BS&W (%) _____

hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why? _____

NAME (PRINT)

DATE

TITLE

SIGNATURE



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

REQUIRED INFORMATION

Company Man Contact Information

Name WhitePhone No. 15-987-015

GENERATOR

NO. 625897

Operator No. _____
Operators Name Marathon Petroleum LLC
Address _____
City, State, Zip _____
Phone No. _____

Permit/RRC No. _____
Lease/Well Name & No. Bath H 0024
County _____
API No. _____
Rig Name & No. _____
AFE/PO No. _____

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

	NON-INJECTABLE WATERS	INJECTABLE WATERS
Oil Based Muds	Washout Water (Non-Injectable) _____	Washout Water (Injectable) _____
Oil Based Cuttings	Completion Fluid/Flow Back (Non-Injectable) _____	Completion Fluid/Flow Back (Injectable) _____
Waste Based Muds	Produced Water (Non-Injectable) _____	Produced Water (Injectable) _____
Water Based Cuttings	Gathering Line Water/Waste (Non-Injectable) _____	Gathering Line Water/Waste (Injectable) _____
Produced Formation Solids		
Tank Bottoms	INTERNAL USE ONLY	OTHER EXEMPT WASTES (type and generation process of the waste)
E&P Contaminated Soil	Truck Washout (exempt waste) _____	
Gas Plant Waste		

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

QUANTITY B - BARRELS L - LIQUID Y - YARDS 20 E - EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- ☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)
- ☐ EMERGENCY NON-OILFIELD Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

TRANSPORTER

Transporter's Name CRUIZ INC
Address _____
Phone No. _____

Driver's Name A J J...
Phone No. _____
Truck No. _____

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP

IN: _____ OUT: _____

DISPOSAL FACILITY

RECEIVING AREA

Name/No. _____

Facility Name/Permit No. Halfway Facility / NM1-006
Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220

Phone No. 575-887-6504

NORM READINGS TAKEN? (Circle One) YES ☐ NO ☐
PASS THE PAINT FILTER TEST? (Circle One) YES ☐ NO ☐

If YES, was reading > 50 micro roentgens? (Circle One) YES ☐ NO ☐
NORM (mR/hr) _____

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
3rd Gauge		

BS&W/BBLS Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ACCEPTED ☐ DENIED ☐ If denied, why? _____

NAME (PRINT)

DATE

TITLE

SIGNATURE

Released to Imaging 5/1/2023 1:00:06 PM



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

REQUIRED INFORMATION

Company Man Contact Information

Name Hobbs

Phone No. 505-764-5454

GENERATOR

NO. 825635

Generator No. _____
Generators Name Hobbs Oil Services LLC
Address _____
City, State, Zip _____
Phone No. _____

Permit/RRC No. _____
Lease/Well Name & No. Edith 110024
County _____
API No. _____
Rig Name & No. _____
AFE/PO No. _____

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	_____	INJECTABLE WATERS	_____
Water Based Cuttings	_____	Washout Water (Non-Injectable)	_____	Washout Water (Injectable)	_____
Waste Based Muds	_____	Completion Fluid/Flow Back (Non-Injectable)	_____	Completion Fluid/Flow Back (Injectable)	_____
Water Based Cuttings	_____	Produced Water (Non-Injectable)	_____	Produced Water (Injectable)	_____
Produced Formation Solids	_____	Gathering Line Water/Waste (Non-Injectable)	_____	Gathering Line Water/Waste (Injectable)	_____
Tank Bottoms	_____	INTERNAL USE ONLY	_____	OTHER EXEMPT WASTES (type and generation process of the waste)	_____
E&P Contaminated Soil	<u>X</u>	Truck Washout (exempt waste)	_____		
Gas Plant Waste	_____				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP) Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

QUANTITY B - BARRELS L - LIQUID Y - YARDS 70 E - EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- ☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)
- ☐ EMERGENCY NON-OILFIELD Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

TRANSPORTER

Transporter's Name Creech Inc.
Address _____
Phone No. _____

Driver's Name Dennis Thomas
Phone No. _____
Truck No. 978715

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP

DISPOSAL FACILITY

RECEIVING AREA

IN: _____ OUT: _____

Name/No. _____

Site Name/ Permit No. Halfway Facility / NM1-006
Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220

Phone No. 575-887-6504

NORM READINGS TAKEN? (Circle One) YES NO
PASS THE PAINT FILTER TEST? (Circle One) YES NO
If YES, was reading > 50 micro roentgens? (Circle One) YES NO
NORM (mR/hr) _____

TANK BOTTOMS

1st Gauge	Feet _____	Inches _____	BS&WYBBS Received	_____	BS&W (%)	_____
2nd Gauge	_____	_____	Free Water	_____		
Received	_____	_____	Total Received	_____		

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why? _____

NAME (PRINT)

DATE

TITLE

SIGNATURE

Received by OCD: 3/28/2023 10:56:09 AM

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Released to Imaging: 5/1/2023 1:00:06 PM

Received by OCD: 3/28/2023 10:56:09 AM

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

REQUIRED INFORMATION

Company Man Contact Information

Name _____

Phone No. _____



GENERATOR

NO. 825598

Generator No. _____
Generators Name Morabla oil Permian
Address _____
City, State, Zip _____
Phone No. _____

Permit/RRC No. _____
Lease/Well Name & No. Bottle H032H
County _____
API No. _____
Rig Name & No. _____
AFE/PO No. _____

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

	NON-INJECTABLE WATERS	INJECTABLE WATERS
Oil Based Muds	Washout Water (Non-Injectable) _____	Washout Water (Injectable) _____
Water Based Muds	Completion Fluid/Flow Back (Non-Injectable) _____	Completion Fluid/Flow Back (Injectable) _____
Water Based Cuttings	Produced Water (Non-Injectable) _____	Produced Water (Injectable) _____
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable) _____	Gathering Line Water/Waste (Injectable) _____
Tank Bottoms	INTERNAL USE ONLY	OTHER EXEMPT WASTES (type and generation process of the waste)
E&P Contaminated Soil	Truck Washout (exempt waste) _____	
Gas Plant Waste		

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity

Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

QUANTITY B - BARRELS L - LIQUID Y - YARDS 20 E - EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- ☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
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- ☐ EMERGENCY NON-OILFIELD Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

TRANSPORTER

Transporter's Name Creed Inc
Address _____
Phone No. _____

Driver's Name _____
Phone No. _____
Truck No. _____

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP

DISPOSAL FACILITY

RECEIVING AREA

IN: _____ OUT: _____

Name/No. _____

Site Name/ Permit No. Halfway Facility / NM1-006
Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220

Phone No. 575-887-6504

NORM READINGS TAKEN? (Circle One) YES NO If YES, was reading > 50 micro roentgens? (Circle One) YES NO
PASS THE PAINT FILTER TEST? (Circle One) YES NO NORM (mR/hr) _____

TANK BOTTOMS

	Feet	Inches	BS&W/BBLs Received	BS&W (%)
1st Gauge				
2nd Gauge			Free Water	
3rd Received			Total Received	

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

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

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

CONDITIONS

Action 201450

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 201450
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved. Going forward, a variance must be requested and approved to reduce confirmation sampling from 200ft2 to 400ft2 to avoid denial.	5/1/2023