



January 12, 2024

**New Mexico Oil Conservation Division**

1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

**Re: Deferral Request  
Florence State 23 TB  
Incident Number nAPP2313769629  
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Matador Production Company (Matador), has prepared this *Deferral Request* to document excavation and soil sampling activities performed at the Florence State 23 TB (Site). The purpose of the excavation and soil sampling activities was to address impacts to soil following a release of produced water and crude oil onto the well pad. Based on field observations, field screening activities, and soil sample laboratory analytical results, Matador is submitting this *Deferral Request*, describing Site assessment and excavation activities that have occurred and requesting deferral of final remediation for Incident Number nAPP2313769629 until the Site is reconstructed and/or the well pad is abandoned and reclaimed.

**SITE DESCRIPTION AND RELEASE SUMMARY**

The Site is located in Unit L, Section 23, Township 23 South, Range 34 East, in Lea County, New Mexico (32.284657°, -103.443006°) and is associated with oil and gas exploration and production operations on State Trust Land managed by the New Mexico State Land Office (NMSLO).

On May 17, 2023, the vapor recovery unit (VRU) went down and caused an increase in pressure on all three vertical heater treaters. A gasket on one of the heater treaters is believed to have started to leak due to the increase in pressure, which caused gas to enter the burner and ignite a fire. The fire consumed the unit resulting in the release of approximately 10 barrels (bbls) of produced water and 30 bbls of crude oil on to the pad. Free-standing fluid was not able to be recovered. Matador reported the release to the New Mexico Oil Conservation Division (NMOCD) via email on May 17, 2023, and submitted a Release Notification Form C-141 (Form C-141) on March 18, 2023. The release was assigned Incident Number nAPP2313769629. The Form C-141 is included in Appendix A.

**SITE CHARACTERIZATION AND CLOSURE CRITERIA**

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization.

The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well CP-1977 POD 1 with a depth to water measurement of greater than 55 feet below ground surface (bgs). The well is located 0.33 miles west of the Site and the most recent

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documented water level measurement was collected on September 8, 2023. All wells used for depth to groundwater determination are depicted on Figure 1 and the referenced well records are included in Appendix B.

The closest continuously flowing or significant watercourse to the Site is an intermittent dry wash, located approximately 0.67 miles southwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Potential site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 10,000 mg/kg

## DELINEATION AND EXCAVATION SOIL SAMPLING ACTIVITIES

On June 5 and 6, 2023, Ensolum personnel were onsite to begin delineation sampling of the on-pad spill area. Delineation soil samples SS01 through SS04 were collected at 0.5 feet bgs to verify the lateral extent of the spill area. Two pothole samples, PH01 and PH02, were advanced via backhoe to a depth of 12 feet and 5 feet bgs, respectively, to verify the vertical extent of the spill area. Since the release remained on pad, an assessment of cultural properties had already been completed prior to the construction of the well pad and as such, the Cultural Properties Protection Rule (CPP) has been followed. No additional cultural resource surveys were completed in connection with this release.

Samples were field screened for chloride utilizing a calibrated Hach® chloride QuanTab® test strips and MOHR method titration. The potholes and delineation soil sample locations are depicted on Figure 2. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Appendix C. A photographic log including delineation and excavation activities can be reviewed in Appendix D.

The delineation soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Envirotech Laboratory Analysis (Envirotech) in Farmington, New Mexico, for analysis of the following constituents of concern (COC): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Beginning on October 24, 2023, Ensolum personnel returned to the Site to complete excavation of the accessible spill area. Excavation of the spill area was completed with a backhoe, skid steer, and hand tools to a depth of 0.5 feet bgs. Following removal of soil, Ensolum personnel collected 24, 5-point composite soil samples representing up to 200 square feet from the floor. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag

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and homogenizing the samples by thoroughly mixing. The excavation soil samples were handled and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3.

Ensolum personnel completed two additional potholes, PH03 (in the vicinity of PH01) and PH04, with a backhoe inside the spill area to verify the vertical extent of the spill area and two boreholes (BH01 and BH02) via hand auger within the area of requested deferral.

Ensolum personnel returned to the Site on December 19 and 20, 2023 with an Atkins Split Spoon sampling drill to complete delineation activities. Pothole PH01 was advanced to a depth of 50 feet bgs to obtain a sample that met the strictest Closure Criteria following NMOCD Table I Closure Criteria. Delineation soil samples SS05 and SS06 were collected at 0.5 ft bgs to further define the lateral extent on the south side of the process piping.

The final excavation extent measured approximately 4,736 square feet. A total of approximately 140 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and disposed of at the R360 Landfill Disposal Facility in Hobbs, New Mexico. After completion of confirmation sampling, the excavation areas were secured with fencing.

## LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for lateral delineation soil samples SS01 through SS06, collected at 0.5 feet bgs, were all in compliance with the strictest Closure Criteria per NMOCD Table I. Laboratory analytical results for vertical delineation samples PH01 and PH02 were below the Closure Criteria for the Site; however, PH01 exceeded the strictest Closure Criteria at 12 feet bgs.

Laboratory analytical results for vertical delineation potholes PH03 and PH04 were in compliance with the Site Closure Criteria; however, PH03 located in the vicinity of PH01, exceeded the strictest Closure Criteria at 9.75 feet bgs. Two boreholes BH01 and BH02 were advanced via hand auger to a depth of 1-foot and 2 feet bgs, respectively, and all soil samples collected were in compliance with the Site Closure Criteria with vertical delineation to the strictest Closure Criteria achieved in BH01 at 1-foot bgs.

Laboratory analytical results for all confirmation soil samples collected at 0.5 feet bgs were in compliance with the Site Closure Criteria. The laboratory analytical results are summarized in Tables 1 and 2 and the complete laboratory analytical reports are included in Appendix E. All sampling notifications to NMOCD and additional correspondences are included in Appendix F.

## DEFERRAL REQUEST

Matador is requesting deferral of final remediation due to the presence of active production equipment and process piping preventing full excavation of impacted soil. The estimated area of remaining impacted soil measures approximately 4,736 square feet, and assuming a depth of 1-foot based on the analytical results from delineation boreholes BH01 and BH02, a total of approximately 191 cubic yards of impacted soil remains in place. The deferral area and delineation soil samples are depicted on Figure 4. The impacted soil is limited to the area beneath active production equipment and surface piping, where remediation would require a major facility deconstruction. The release extent has been laterally delineated by delineation soil samples SS01 through SS06 at 0.5 feet bgs and vertically delineated to the strictest Closure Criteria by pothole samples PH01, PH02, and PH04 at 44 feet, 1-foot, and 4 feet bgs respectively.

Matador does not believe deferment will result in imminent risk to human health, the environment, or groundwater. Depth to groundwater was determined to be greater than 55 feet, and the entirety of the

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release remained on pad. Any gross impacts were removed via scraping of the surface soils. Based on the presence of active production equipment within the release area and the complete lateral and vertical delineation of impacted soil remaining in place, Matador requests deferral of final remediation for Incident Number nAPP2313769629 until final reclamation of the well pad or major construction, whichever comes first.

The release remained on the well pad that is currently in operation for oil and gas production purposes. As such, the release area is not expected to be reclaimed until the oil and gas well is plugged and abandoned (P&A'd) and the well pad is reclaimed. The Reclamation Plan for this release will default to the NMSLO-approved Reclamation Plan for the well pad per 19.2.100.67 NMAC.

If you have any questions or comments, please contact Ms. Ashley Giovengo at (575) 988-0055 or [agiovengo@ensolum.com](mailto:agiovengo@ensolum.com).

Sincerely,  
**Ensolum, LLC**



Ashley Giovengo  
Senior Engineer



Daniel R. Moir, PG  
Senior Managing Geologist

cc: Clinton Talley, Matador Production Company  
State Land Office

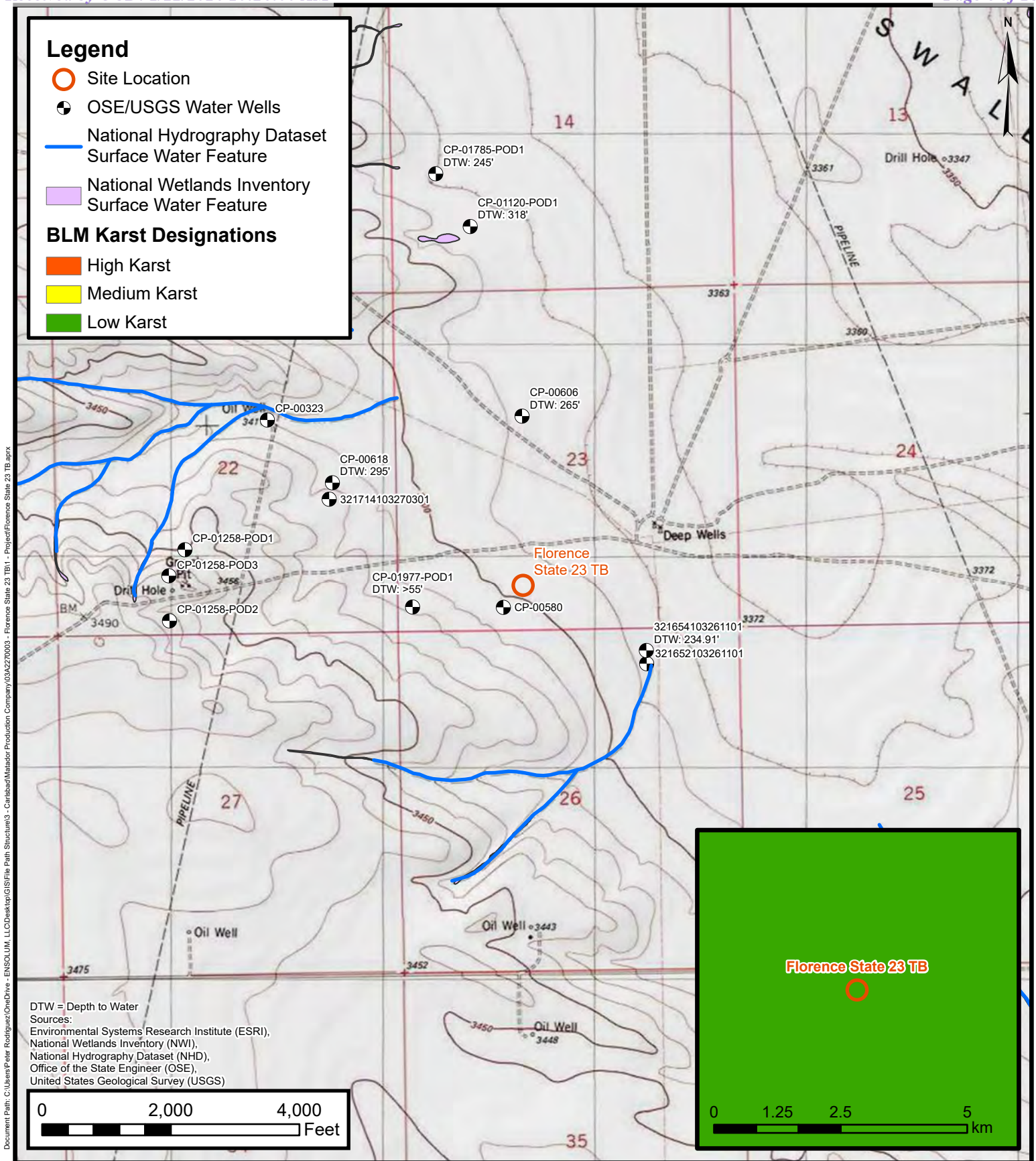
Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Figure 4	Deferral Area
Table 1	Delineation Soil Sample Analytical Results
Table 2	Excavation Soil Sample Analytical Results
Appendix A	Form C-141
Appendix B	Referenced Wells
Appendix C	Photographic Log
Appendix D	Lithologic Soil Sampling Logs
Appendix E	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix F	NMOCD Email Correspondence





FIGURES



## Site Receptor Map

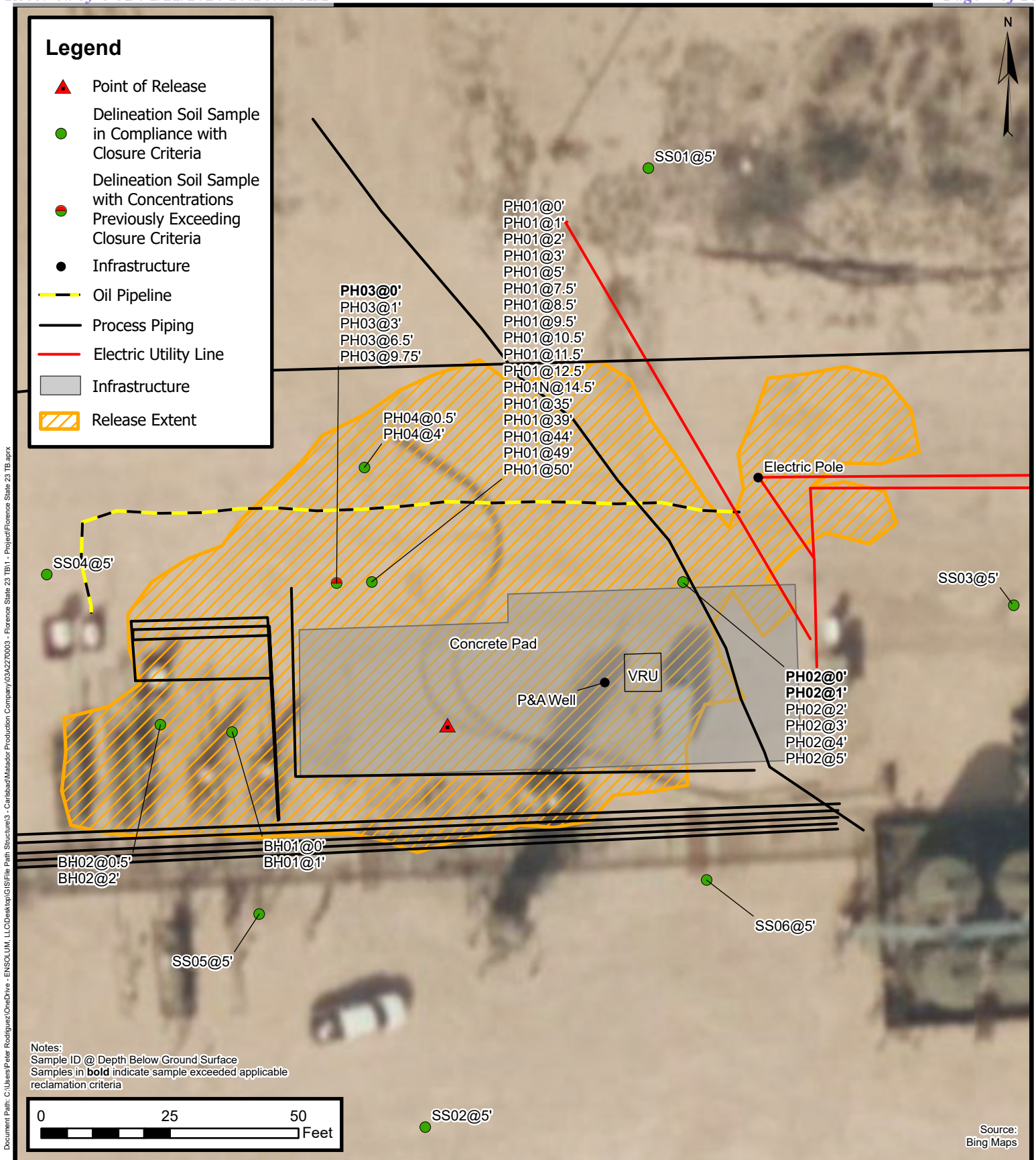
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Incident Number: NAPP2313769629  
Unit L, Sec 23, T23S R34E  
Lea County, New Mexico

FIGURE

1

**ENSOLUM**  
Environmental, Engineering and  
Hydrogeologic Consultants

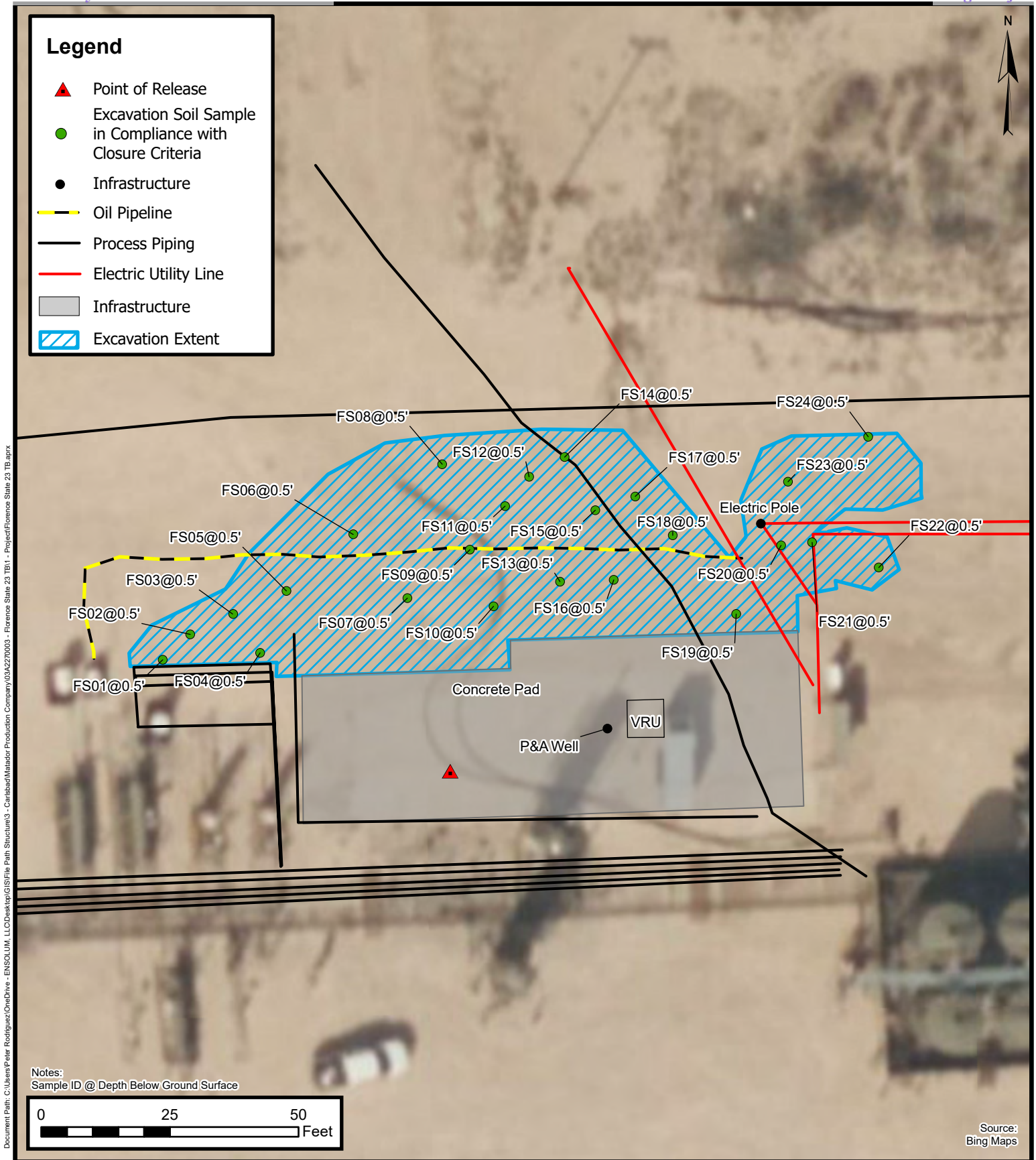




## Delineation Soil Sample Locations

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Lea County, New Mexico

**FIGURE**  
**2**

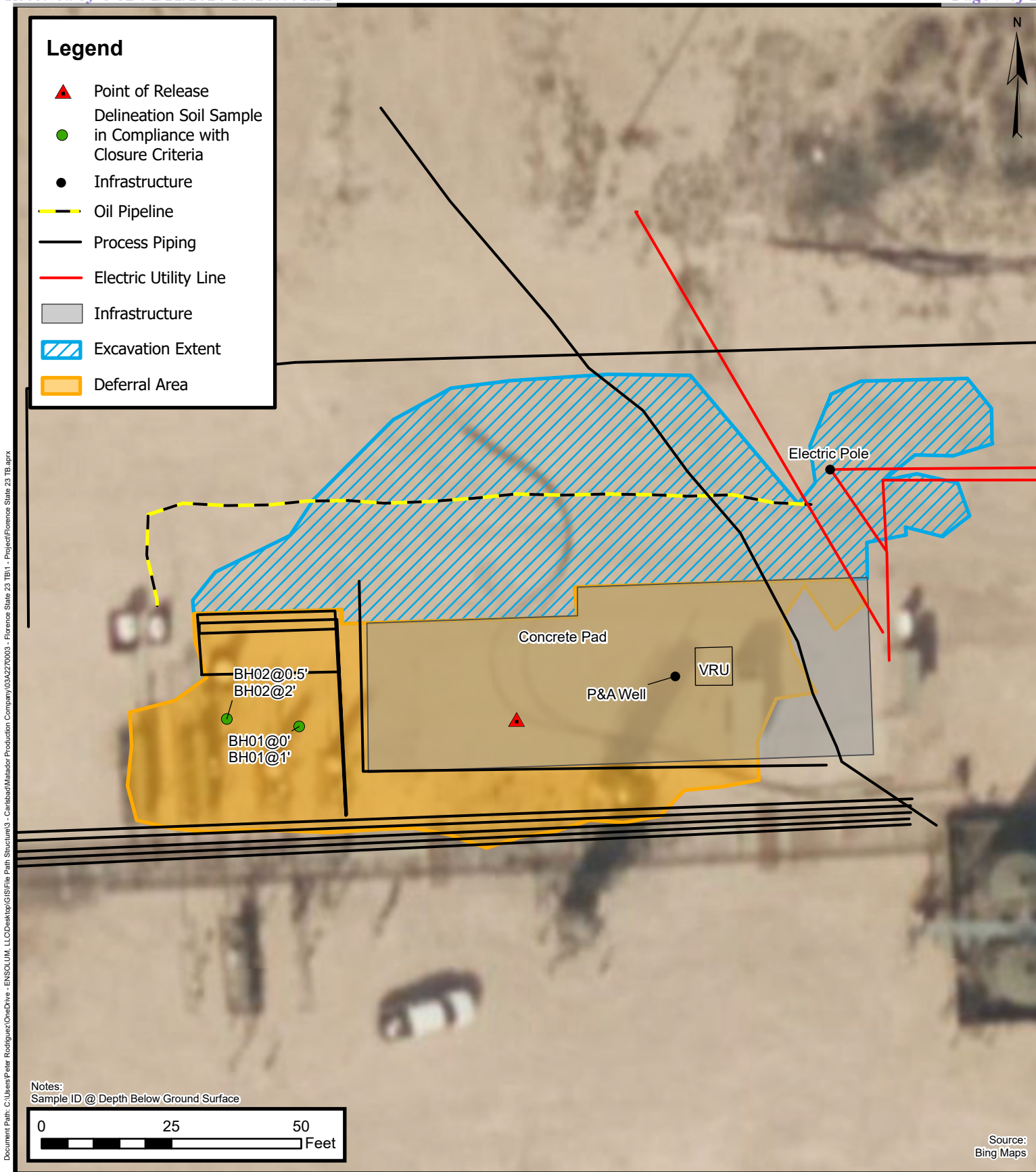


## Excavation Soil Sample Locations

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Lea County, New Mexico

**FIGURE**  
**3**





## Area of Requested Deferral

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FIGURE

4



TABLES





**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Florence State 23 TB  
 Matador Production Company  
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
<b>NMOCD Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>10,000</b>
<b>Delineation Soil Samples</b>										
SS01	6/5/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	56.8
SS02	6/5/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	187
SS03	6/5/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	ND
SS04	6/5/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	246
SS05	12/19/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	62.9
SS06	12/19/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	55.7
PH01	6/6/2023	0	<0.025	<0.025	<20.0	322	239	322	561	1,390
PH01	6/6/2023	1	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	2,990
PH01	6/6/2023	2	<0.025	<0.025	<20.0	52.4	<50.0	52	52	3,040
PH01	6/6/2023	3	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	1,960
PH01	6/6/2023	5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	1,030
PH01	6/6/2023	7.5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	1,310
PH01	6/6/2023	8.5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	995
PH01	6/6/2023	9.5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	1,140
PH01	6/6/2023	10.5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	921
PH01	6/6/2023	11.5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	759
PH01	6/6/2023	12.5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	720
PH01N	11/7/2023	14.5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	930
PH01	11/20/2023	35	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	1,100
PH01	11/20/2023	39	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	770
PH01	11/20/2023	44	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	308
PH01	11/20/2023	49	<0.025	<0.025	<20.0	75.6	<50.0	75.6	75.6	277
PH01	11/20/2023	50	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	216
PH02	6/6/2023	0	<0.025	<0.025	<20.0	131	211.0	131	342	2,570
PH02	6/6/2023	1	<0.025	<0.025	<20.0	133	380.0	133	513	254
PH02	6/6/2023	2	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	320
PH02	6/6/2023	3	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	235
PH02	6/6/2023	4	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	246
PH02	6/6/2023	5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	345



**TABLE 1 - CONT'D**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
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 Matador Production Company  
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
<b>NMOCD Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>10,000</b>
<b>Delineation Soil Samples</b>										
PH03	10/24/2023	0	<0.025	<0.025	<20.0	66	90.7	66	156.7	<b>39,100</b>
PH03	10/24/2023	1	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	2,480
PH03	10/24/2023	3	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	1,880
PH03	10/26/2023	6	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	719
PH03	10/26/2023	9.75	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	824
PH04	10/26/2023	0.5	<0.025	<0.025	<20.0	36.4	<50.0	36.4	36.4	153
PH04	10/26/2023	4	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	266
BH01	11/7/2023	0	<0.025	<0.025	<20.0	317	406	723	723	333
BH01	10/24/2023	1	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	568
BH02	10/24/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	3,870
BH02	10/24/2023	2	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	773

**Notes:**

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

&lt;: Laboratory Analytical result is less than reporting limit

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.

\* Indicates sample was collected in area to be reclaimed after remediation is complete; reclamation for chloride in the top 4 feet is 600 mg/kg and total TPH is 100 mg/kg.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



**TABLE 2**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Florence State 23 TB  
 Matador Production Company  
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
Excavation Floor Soil Samples										
FS01	10/26/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	2,840
FS02	10/26/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	1,880
FS03	10/26/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	1,780
FS04	10/26/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	1,620
FS05	10/26/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	1,160
FS06	10/26/2023	0.5	<0.025	<0.025	<20.0	44.7	76.1	44.7	120.8	1,690
FS07	10/26/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	873
FS08	10/26/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	595
FS09	10/26/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	1,720
FS10	10/26/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	603
FS11	10/26/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	1,090
FS12	10/26/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	1,410
FS13	10/26/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	1,280
FS14	10/26/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	614
FS15	10/26/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	297
FS16	10/26/2023	0.5	<0.025	<0.025	<20.0	30.3	56.7	30.3	87.0	537



**TABLE 2 - CONT'D**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Florence State 23 TB  
 Matador Production Company  
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
<b>NMOCD Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>10,000</b>
<b>Excavation Floor Soil Samples</b>										
FS17	10/26/2023	0.5	<0.025	<0.025	<20.0	48.3	95	48.3	144	449
FS18	10/26/2023	0.5	<0.025	<0.025	<20.0	47.5	67.6	47.5	115	244
FS19	10/26/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	159
FS20	10/26/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	260
FS21	10/26/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	2,520
FS22	10/26/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	702
FS23	10/26/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	32.5
FS24	10/26/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	22.6

**Notes:**

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

&lt;: Laboratory Analytical result is less than reporting limit

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.

\* Indicates sample was collected in area to be reclaimed after remediation is complete; reclamation for chloride in the top 4 feet is 600 mg/kg and total TPH is 100 mg/kg.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



APPENDIX A

Form C-141

---

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

State of New Mexico  
Energy Minerals and Natural  
Resources 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	nAPP2313769629
District RP	
Facility ID	
Application ID	

# Release Notification

## Responsible Party

Responsible Party Matador Production Company	OGRID 228937
Contact Name Clint Talley	Contact Telephone (337) 319-8398
Contact email clinton.talley@matadorresources.com	Incident # <i>(assigned by OCD)</i> nAPP2313769629
Contact mailing address 5400 Lyndon B Johnson Fwy, Dallas, Texas 75240	

## Location of Release Source

Latitude 32.284657

Longitude -103.443006

(NAD 83 in decimal degrees to 5 decimal places)

Site Name Florence State 23 TB	Site Type Oil Well
Date Release Discovered 05/17/2023	API# (if applicable)

Unit Letter	Section	Township	Range	County
L	23	23S	34E	Lea

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

## Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 30 bbls	Volume Recovered (bbls) 0 bbls
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 10 bbls	Volume Recovered (bbls) 0 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:

The VRU went down and caused an increase in pressure on all three vertical heater treaters. A gasket on one of the heater treaters is believed to have started to leak due to increase of pressure which caused gas to enter the burner and ignite a fire. The fire consumed the unit and resulted in a crude oil and produced water release on-pad. The volume released is estimated based on the capacity of the heater treater onsite.




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Was this a major release as defined by 19.15.29.7(A) NMAC?  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Volume exceeded 25 bbls. This release resulted in a fire or was the result of a fire.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Immediate notice was given to NMOCD on 05/17/2023 via website.	

## Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Clint Talley</u>	Title: <u>EHS Supervisor</u>
Signature: <u></u>	Date: <u>05/18/2023</u>
email: <u>Clinton.talley@matadorresources.com</u>	Telephone: <u>337-319-8398</u>
<b><u>OCD Only</u></b>	
Received by: <u>Jocelyn Harimon</u>	Date: <u>05/19/2023</u>

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## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>&gt;55</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

State of New Mexico  
Oil Conservation Division

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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: Clint Talley Title: EHS Supervisor  
Signature: *Clint Talley* Date: 1/12/2024  
email: Clinton.talley@matadorresources.com Telephone: 337-319-8398

**OCD Only**

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

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## Remediation Plan

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

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

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

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

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

Printed Name: Clint TalleyTitle: EHS SupervisorSignature: Clint TalleyDate: 05/18/2023email: Clinton.talley@matadorresources.comTelephone: 337-319-8398**OCD Only**

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

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

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

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

**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 218344

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 218344
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141	5/19/2023



## APPENDIX B

### Referenced Wells

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2904 W 2nd St.  
Roswell, NM 88201  
voice: 575.624.2420  
fax: 575.624.2421  
www.atkinseng.com

September 13, 2023

DII-NMOSE  
1900 W 2<sup>nd</sup> Street  
Roswell, NM 88201

*Hand Delivered to the DII Office of the State Engineer*

Re: Well Record CP-1977 Pod-1

To whom it may concern:

Attached please find a well log & record and a plugging record, in duplicate, for a one (1) soil borings, CP-1977 Pod-1.

If you have any questions, please contact me at 575.499.9244 or [lucas@atkinseng.com](mailto:lucas@atkinseng.com).

Sincerely,

A handwritten signature in black ink, appearing to read "Lucas Middleton".

Lucas Middleton

Enclosures: as noted above

036 011 SEP 14 2023 PM 2:40



# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 1 (TW-1)		WELL TAG ID NO. N/A		OSE FILE NO(S). CP-1977			
	WELL OWNER NAME(S) Matador Production Company				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 5400 Lyndon B Johnson Fwy Suite 1500				CITY Dallas	STATE TX	ZIP 75240	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 17	SECONDS 1.67 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE 103	26	54.93 W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NE NW NE Sec. 21 T26S R31E, NMPM								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 09/08/2023	DRILLING ENDED 09/08/2023	DEPTH OF COMPLETED WELL (FT) Temporary Well Material		BORE HOLE DEPTH (FT) ±55	DEPTH WATER FIRST ENCOUNTERED (FT) N/A		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A	DATE STATIC MEASURED 9/13/2023		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES – SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER – SPECIFY: Hollow Stem Auger					CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>		
	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	0	55	±6.25	Soil Boring	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
				N/A				

WR-20 WELL RECORD & LOG (Version 01/28/2022)

FOR OSE INTERNAL USE


FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	14	14	Caliche, consolidated, fine-grained sand, white/ tan	Y    ✓ N	
	14	55	41	Sand, fine-grained, poorly graded, unconsolidated, tan	Y    ✓ N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER – SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm):    0.00	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to ten feet below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface. USE 01 SEP 14 2023 PM 2:40	
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Cameron Pruitt	

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:	
	 SIGNATURE OF DRILLER / PRINT SIGNEE NAME	Jackie D. Atkins DATE

FOR USE INTERNAL USE

WR-20 WELL RECORD &amp; LOG (Version 01/28/2022)

FILE NO.

POD NO.

TRN NO.

LOCATION

WELL TAG ID NO.

PAGE 2 OF 2



# PLUGGING RECORD



**NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC**

## I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: C-1977- POD-1

Well owner: Matador Production Company

Phone No.: 337-319-8398

Mailing address: 5400 Lyndon B Johnson Fwy Suite 1500

City: Dallas

State: Texas

Zip code: 75240

## II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Jackie D. Atkins ( Atkins Engineering Associates Inc.)

2) New Mexico Well Driller License No.: 1249 Expiration Date: 04/30/25

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cameron Pruitt

4) Date well plugging began: 09/12/2023 Date well plugging concluded: 09/12/2023

5) GPS Well Location: Latitude: 32 deg, 17 min, 1.67 sec  
Longitude: 103 deg, 26 min, 54.93 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 55 ft below ground level (bgl),  
by the following manner: weighted tape

7) Static water level measured at initiation of plugging: n/a ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 09/01/2023

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- 10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

<u>Depth</u> (ft bgl)	<u>Plugging Material Used</u> (include any additives used)	<u>Volume of Material Placed</u> (gallons)	<u>Theoretical Volume of Borehole/ Casing</u> (gallons)	<u>Placement Method</u> (tremie pipe, other)	<u>Comments</u> ("casing perforated first", "open annular space also plugged", etc.)
0-10'	Hydrated Bentonite	Approx. 15 gallons	15 gallons	Augers	
10'-55'	Drill Cuttings	Approx. 71 gallons	71 gallons	Boring	

OSC DTI SEP 14 2023 PM2:40

MULTIPLY	BY	AND OBTAIN
cubic feet x 7.4805	=	gallons
cubic yards x 201.97	=	gallons

### III. SIGNATURE:

I, Jackie D. Atkins, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

*Jack Atkins*

Signature of Well Driller

9/13/2023

Date






# WR-20 Well Record and Log-packet-forsign

Final Audit Report

2023-09-13

Created:	2023-09-13
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAh4Tm2W3Qt4Ggo_QC6XUO2_2CsWQaLnzt

## "WR-20 Well Record and Log-packet-forsign" History

-  Document created by Lucas Middleton (lucas@atkinseng.com)  
2023-09-13 - 8:14:11 PM GMT- IP address: 24.40.85.191
-  Document emailed to Jack Atkins (jack@atkinseng.com) for signature  
2023-09-13 - 8:14:37 PM GMT
-  Email viewed by Jack Atkins (jack@atkinseng.com)  
2023-09-13 - 8:52:44 PM GMT- IP address: 64.90.153.232
-  Document e-signed by Jack Atkins (jack@atkinseng.com)  
Signature Date: 2023-09-13 - 8:54:04 PM GMT - Time Source: server- IP address: 64.90.153.232
-  Agreement completed.  
2023-09-13 - 8:54:04 PM GMT

09E 011 SEP 14 2023 PM2:40







## APPENDIX C


### Lithologic Soil Sampling Logs


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								Sample Name: PH01		Date: 12/20/2023	
								Florence State 23 TB			
								Incident Number: Napp2313769629			
								Job Number: 03A2270003			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Ethan Haft		Method: Drill	
Coordinates: 32.2847881, -103.4331807								Hole Diameter: 6"		Total Depth: 50ft BGS	
Comments: Field screening conducted with HACH Chloride Test Strips chloride. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
Dry	790	NA	N	PH04	35	35	SW-SC	Dark brown silt and clay with carbonate pebbles. Moderate to well sorted.			
Dry	940	NA	N	PH04	39	39	SC	Reddish brown clay with very fine carbonate gravel. Well sorted.			
Dry	415	NA	N	PH04	44	44	CL	Powdery dark brown reddish clay. Well sorted. Very fine disseminated carbonate.			
Wet	275	NA	N	PH04	49	49	CH	Powdery dark brown reddish clay. Well sorted.			
Wet	275	NA	N	PH04	50	50	CH				
Total Depth @ 50 ft bgs.											

								Sample Name: PH02		Date: 6/5/23	
								Site Name: Florence State 23 TB			
								Incident Number: nAPP2313769629			
								Job Number: 03A22700003			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Ashley Giovengo		Method: Backhoe	
Coordinates: 32.284657, -103.443006								Hole Diameter: 3'		Total Depth: 5'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D				PH02	0	0	SP-SM	0-1' Dark brown, Medium grade, Moist,			
M				PH02	1	1	SP-SM	1-2' Dark brown, Medium grade, Moist,			
M				PH02	2	2	SP-SM	2-3' Dark brown, Course grade, Moist			
D				PH02	3	3	SP-SM	3-4' Sand, Light brown, Medium grade, Dry			
D	400	0.5		PH02	4	4	SP-SM	4-5' Sand, Light brown, Medium grade, Dry			
D	300	0.2		PH02	5	5	SP-SM	5-6' Sand, Light brown, Medium grade, Dry			
Total Depth @ 5 ft bgs.											

 <b>ENSOLUM</b>								Sample Name: PH03		Date: 10/26/2023	
								Site Name: Florence State 23 TB			
								Incident Number: nAPP2313769629			
								Job Number: 03A227003			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Chad Hamilton		Method: Backhoe	
Coordinates: 32.2284727, -103.443177								Hole Diameter: 24"		Total Depth: 9.75'	
Comments: Field screening conducted with HACH Chloride Test Strips and PetroFLAG for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	TPH	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
Dry	>37,744	NA	Y	PH03	0'	0'	CCHE	Primarily, poorly-sorted, light brown caliche varying in grain size from fine to large gravel, non-plastic, non-cohesive			
Dry	454	NA	N	PH03	1'	1'	GP-GM	Primarily dark brown soil with an even mixture of fine-grained sand and clay with abundant caliche rock present varying in size from small to large gravel.			
Dry	2,134	NA	N	PH03	2'	2'	GP-GM				
Dry	2,280	NA	N	PH03	3'	3'	GP-GM				
Dry	1,736	NA	N	PH03	4'	4'	CCHE				
Dry	1,204	NA	N	PH03	5'	5'	CCHE	Massive deposit of white to yellow-brown caliche rock.			
Dry	778	NA	N	PH03	6'	6'	CCHE				
Dry	857	NA	N	PH03	7'	7'	CCHE				
Dry	1,109	NA	N	PH03	8'	8'	CCHE				
Dry	857	NA		PH03	9'	9'	CCHE				
Dry	778	NA		PH03	9.75'	9.75'	CCHE				
Total Depth @ 9.75 ft bgs.											

 <b>ENSOLUM</b>								Sample Name: PH04		Date: 10/26/2023	
								Site Name: Florence State 23 TB			
								Incident Number: Napp231376929			
								Job Number: 03A2270003			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: EBH		Method: Back Hoe	
Coordinates: 32.2847884, -103.4431807								Hole Diameter: 2'		Total Depth: 4' BGS	
Comments: Field screening conducted with HACH Chloride Test Strips and Petroflag for TPH. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	TPH	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
Moist	230	NA	Y	PH04	0.5'	0.5'	SP-SM	Poorly sorted dark brown silt and clay with caliche clasts			
Moist	1467	NA	Y	PH04	1'	1'	SP-SM				
Moist	1165	NA	Y	PH04	2'	2'	SP-SM				
Dry	554	NA	N	PH04	3'	3'	SP-SM	Poorly sorted tan silt and clay with caliche clasts			
Dry	230	38	N	PH04	4'	4'	SP-SM				
Total Depth @ 4 ft bgs.											



## APPENDIX D

### Photographic Log

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### Photographic Log

Matador Production Company  
Florence State 23 TB  
nAPP2313769629

#### North East Elevation

☉ 213°SW (T) LAT: 32.284826 LON: -103.442980 ±13ft ▲ 3403ft



Initial Spill  
Ensolum, LLC

Florence State 24 TB  
05-18-2023, 07:04:17

Photograph 1

Date: 5/18/2023

Description: Point of release

View: Northeast

#### South Elevation

☉ 14°N (T) LAT: 32.284606 LON: -103.443223 ±13ft ▲ 3402ft



Initial Spill  
Ensolum, LLC

Florence State 24 TB  
05-18-2023, 07:07:32

Photograph 2

Date: 5/18/2023

Description: Point of release

View: South

#### South Elevation

☉ 12°N (T) LAT: 32.284775 LON: -103.443197 ±13ft ▲ 3136ft



PH01  
Ensolum, LLC

Florence State 23 TB  
06-06-2023, 08:40:17

Photograph 3

Date: 6/6/2023

Description: Pothole activities

View: South

#### East Elevation

☉ 250°W (T) LAT: 32.284740 LON: -103.442921 ±13ft ▲ 3405ft



PH02  
Ensolum, LLC

Florence State 23 TB  
06-06-2023, 11:58:53

Photograph 4

Date: 6/6/2023

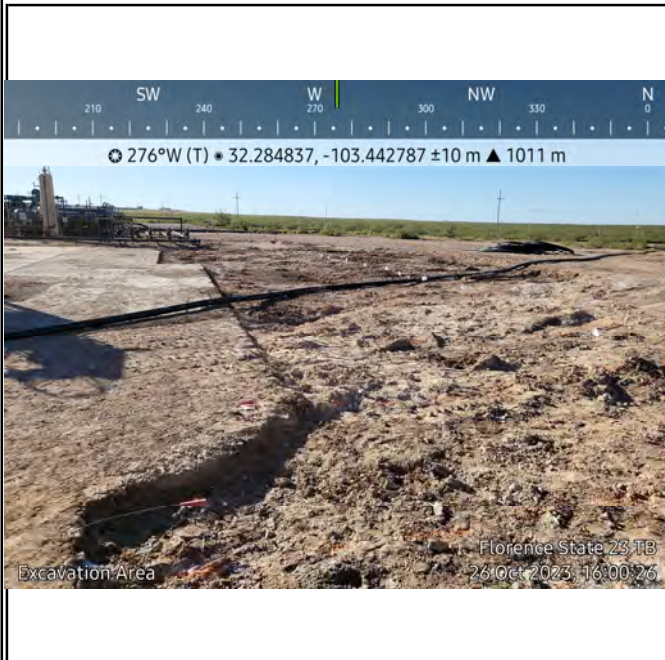
Description: Pothole activities

View: East



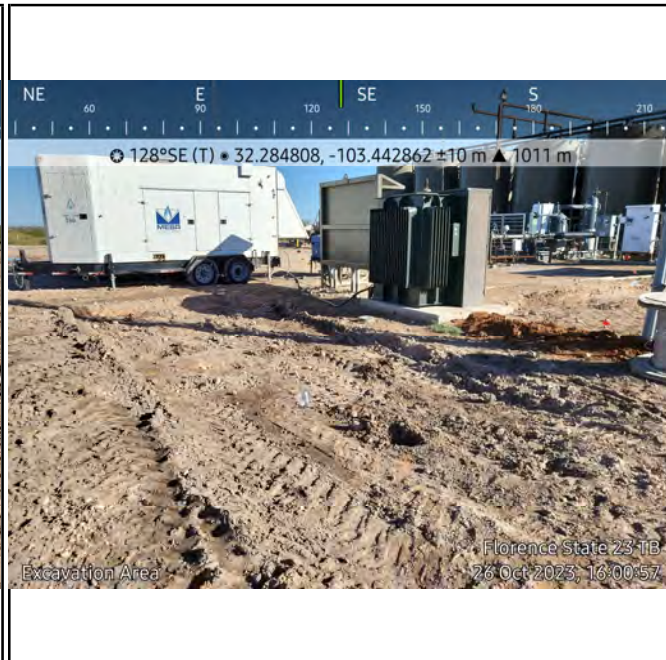


**Photographic Log**  
Matador Production Company  
Florence State 23 TB  
nAPP2313769629



Photograph 5  
Description: Excavation  
View: West

Date: 10/26/2023



Photograph 6  
Description: Excavation  
View: Southeast

Date: 10/26/2023



Photograph 7  
Description: Excavation  
View: Southeast

Date: 10/26/2023



Photograph 8  
Description: Additional Delineation  
View: East

Date: 11/7/23





# Photographic Log

Matador Production Company

Florence State 23 TB

nAPP2313769629

## West Elevation

104°E (T) LAT: 32.284729 LON: -103.443249 ±13ft ▲ 3406ft



Photograph 9

Date: 11/07/2023

Description: Drilling

View: Southeast



Photograph 10

Date: 12/19/2023

Description: Drilling

View: Southeast

125°SE (T) LAT: 32.284774 LON: -103.443286 ±19ft ▲ 3399ft



Photograph 11

Date: 12/20/2023

Description: Drilling

View: Southeast

14°N (T) LAT: 32.284663 LON: -103.443162 ±13ft ▲ 3401ft



Photograph 12

Date: 12/20/2023

Description: Drilling

View: North



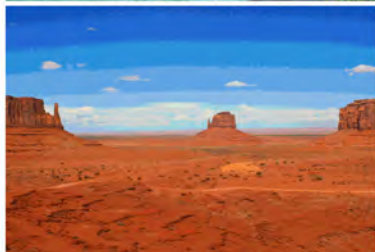
## APPENDIX E

### Laboratory Analytical Reports & Chain-of-Custody Documentation

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Report to:

Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Production Company

Project Name: Florence State 23 TB

Work Order: E306045

Job Number: 23052-0001

Received: 6/7/2023

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
6/12/23

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 6/12/23



Ashley Giovengo  
3122 National Parks HWY  
Carlsbad, NM 88220

Project Name: Florence State 23 TB  
Workorder: E306045  
Date Received: 6/7/2023 8:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/7/2023 8:30:00AM, under the Project Name: Florence State 23 TB.

The analytical test results summarized in this report with the Project Name: Florence State 23 TB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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**Rayny Hagan**  
Technical Representative  
Office: 505-421-LABS(5227)

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

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Sample Summary

Matador Production Company	Project Name:	Florence State 23 TB	Reported:  06/12/23 11:38
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01 - 0.5'	E306045-01A	Soil	06/05/23	06/07/23	Glass Jar, 2 oz.
SS02 - 0.5'	E306045-02A	Soil	06/05/23	06/07/23	Glass Jar, 2 oz.
SS03 - 0.5'	E306045-03A	Soil	06/05/23	06/07/23	Glass Jar, 2 oz.
SS04 - 0.5'	E306045-04A	Soil	06/05/23	06/07/23	Glass Jar, 2 oz.



## Sample Data

Matador Production Company 3122 National Parks HWY Carlsbad NM, 88220	Project Name: Florence State 23 TB Project Number: 23052-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/12/2023 11:38:55AM
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SS01 - 0.5'

E306045-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2323015	
Benzene	ND	0.0250	1	06/07/23	06/08/23	
Ethylbenzene	ND	0.0250	1	06/07/23	06/08/23	
Toluene	ND	0.0250	1	06/07/23	06/08/23	
o-Xylene	ND	0.0250	1	06/07/23	06/08/23	
p,m-Xylene	ND	0.0500	1	06/07/23	06/08/23	
Total Xylenes	ND	0.0250	1	06/07/23	06/08/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	94.8 %	70-130		06/07/23	06/08/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2323015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/07/23	06/08/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	92.6 %	70-130		06/07/23	06/08/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2323029	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/07/23	06/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/07/23	06/08/23	
<i>Surrogate: n-Nonane</i>	80.5 %	50-200		06/07/23	06/08/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2323077	
Chloride	56.8	20.0	1	06/09/23	06/09/23	





## Sample Data

Matador Production Company 3122 National Parks HWY Carlsbad NM, 88220	Project Name: Florence State 23 TB Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 6/12/2023 11:38:55AM
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SS02 - 0.5'

E306045-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2323015	
Benzene	ND	0.0250	1	06/07/23	06/08/23	
Ethylbenzene	ND	0.0250	1	06/07/23	06/08/23	
Toluene	ND	0.0250	1	06/07/23	06/08/23	
o-Xylene	ND	0.0250	1	06/07/23	06/08/23	
p,m-Xylene	ND	0.0500	1	06/07/23	06/08/23	
Total Xylenes	ND	0.0250	1	06/07/23	06/08/23	
Surrogate: 4-Bromochlorobenzene-PID	95.3 %	70-130		06/07/23	06/08/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2323015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/07/23	06/08/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.1 %	70-130		06/07/23	06/08/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2323029	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/07/23	06/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/07/23	06/08/23	
Surrogate: n-Nonane	80.7 %	50-200		06/07/23	06/08/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2323077	
Chloride	187	20.0	1	06/09/23	06/09/23	



Sample Data

Matador Production Company	Project Name:	Florence State 23 TB	<b>Reported:</b> 6/12/2023 11:38:55AM
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

SS03 - 0.5'  
E306045-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2323015	
Benzene	ND	0.0250	1	06/07/23	06/08/23	
Ethylbenzene	ND	0.0250	1	06/07/23	06/08/23	
Toluene	ND	0.0250	1	06/07/23	06/08/23	
o-Xylene	ND	0.0250	1	06/07/23	06/08/23	
p,m-Xylene	ND	0.0500	1	06/07/23	06/08/23	
Total Xylenes	ND	0.0250	1	06/07/23	06/08/23	
Surrogate: 4-Bromochlorobenzene-PID	95.0 %	70-130		06/07/23	06/08/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2323015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/07/23	06/08/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.1 %	70-130		06/07/23	06/08/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2323029	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/07/23	06/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/07/23	06/08/23	
Surrogate: n-Nonane	76.7 %	50-200		06/07/23	06/08/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2323077	
Chloride	ND	20.0	1	06/09/23	06/09/23	



## Sample Data

Matador Production Company	Project Name:	Florence State 23 TB	<b>Reported:</b> 6/12/2023 11:38:55AM
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

SS04 - 0.5'

E306045-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2323015	
Benzene	ND	0.0250	1	06/07/23	06/08/23	
Ethylbenzene	ND	0.0250	1	06/07/23	06/08/23	
Toluene	ND	0.0250	1	06/07/23	06/08/23	
o-Xylene	ND	0.0250	1	06/07/23	06/08/23	
p,m-Xylene	ND	0.0500	1	06/07/23	06/08/23	
Total Xylenes	ND	0.0250	1	06/07/23	06/08/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.9 %	70-130		06/07/23	06/08/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2323015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/07/23	06/08/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	91.7 %	70-130		06/07/23	06/08/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2323029	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/07/23	06/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/07/23	06/08/23	
<i>Surrogate: n-Nonane</i>	79.8 %	50-200		06/07/23	06/08/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2323077	
Chloride	246	20.0	1	06/09/23	06/09/23	



QC Summary Data

Matador Production Company	Project Name:	Florence State 23 TB	Reported:
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/12/2023 11:38:55AM

Volatile Organics by EPA 8021B

Analyst: SL

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

Blank (2323015-BLK1) Prepared: 06/06/23 Analyzed: 06/07/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.96		8.00		99.5	70-130			

LCS (2323015-BS1) Prepared: 06/06/23 Analyzed: 06/07/23

Benzene	5.10	0.0250	5.00		102	70-130			
Ethylbenzene	5.06	0.0250	5.00		101	70-130			
Toluene	5.24	0.0250	5.00		105	70-130			
o-Xylene	5.21	0.0250	5.00		104	70-130			
p,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.5	0.0250	15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.13		8.00		102	70-130			

Matrix Spike (2323015-MS1) Source: E306036-02 Prepared: 06/06/23 Analyzed: 06/07/23

Benzene	5.27	0.0250	5.00	ND	105	54-133			
Ethylbenzene	5.24	0.0250	5.00	ND	105	61-133			
Toluene	5.42	0.0250	5.00	ND	108	61-130			
o-Xylene	5.40	0.0250	5.00	ND	108	63-131			
p,m-Xylene	10.6	0.0500	10.0	ND	106	63-131			
Total Xylenes	16.0	0.0250	15.0	ND	107	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.08		8.00		101	70-130			

Matrix Spike Dup (2323015-MSD1) Source: E306036-02 Prepared: 06/06/23 Analyzed: 06/07/23

Benzene	5.10	0.0250	5.00	ND	102	54-133	3.27	20	
Ethylbenzene	5.07	0.0250	5.00	ND	101	61-133	3.34	20	
Toluene	5.24	0.0250	5.00	ND	105	61-130	3.33	20	
o-Xylene	5.22	0.0250	5.00	ND	104	63-131	3.36	20	
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131	3.07	20	
Total Xylenes	15.5	0.0250	15.0	ND	103	63-131	3.17	20	
Surrogate: 4-Bromochlorobenzene-PID	8.10		8.00		101	70-130			



QC Summary Data

Matador Production Company	Project Name:	Florence State 23 TB	Reported:
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/12/2023 11:38:55AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2323015-BLK1) Prepared: 06/06/23 Analyzed: 06/07/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.94		8.00		86.7	70-130			

LCS (2323015-BS2) Prepared: 06/06/23 Analyzed: 06/07/23

Gasoline Range Organics (C6-C10)	41.5	20.0	50.0		83.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.91		8.00		86.4	70-130			

Matrix Spike (2323015-MS2) Source: E306036-02 Prepared: 06/06/23 Analyzed: 06/07/23

Gasoline Range Organics (C6-C10)	42.2	20.0	50.0	ND	84.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.18		8.00		89.8	70-130			

Matrix Spike Dup (2323015-MSD2) Source: E306036-02 Prepared: 06/06/23 Analyzed: 06/07/23

Gasoline Range Organics (C6-C10)	40.4	20.0	50.0	ND	80.8	70-130	4.30	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.27		8.00		90.9	70-130			



QC Summary Data

Matador Production Company	Project Name:	Florence State 23 TB	Reported:
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/12/2023 11:38:55AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2323029-BLK1) Prepared: 06/07/23 Analyzed: 06/07/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	60.7		50.0		121	50-200			

LCS (2323029-BS1) Prepared: 06/07/23 Analyzed: 06/07/23

Diesel Range Organics (C10-C28)	287	25.0	250		115	38-132			
Surrogate: n-Nonane	41.1		50.0		82.2	50-200			

Matrix Spike (2323029-MS1) Source: E306036-05 Prepared: 06/07/23 Analyzed: 06/07/23

Diesel Range Organics (C10-C28)	290	25.0	250	ND	116	38-132			
Surrogate: n-Nonane	36.9		50.0		73.8	50-200			

Matrix Spike Dup (2323029-MSD1) Source: E306036-05 Prepared: 06/07/23 Analyzed: 06/07/23

Diesel Range Organics (C10-C28)	290	25.0	250	ND	116	38-132	0.125	20	
Surrogate: n-Nonane	38.8		50.0		77.6	50-200			





QC Summary Data

Matador Production Company	Project Name:	Florence State 23 TB	Reported:
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/12/2023 11:38:55AM

Anions by EPA 300.0/9056A

Analyst: BA

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

Blank (2323077-BLK1)					Prepared: 06/09/23 Analyzed: 06/09/23				
Chloride	ND	20.0							
LCS (2323077-BS1)					Prepared: 06/09/23 Analyzed: 06/09/23				
Chloride	265	20.0	250		106	90-110			
Matrix Spike (2323077-MS1)					Source: E306077-01		Prepared: 06/09/23 Analyzed: 06/09/23		
Chloride	291	20.0	250	32.8	103	80-120			
Matrix Spike Dup (2323077-MSD1)					Source: E306077-01		Prepared: 06/09/23 Analyzed: 06/09/23		
Chloride	286	20.0	250	32.8	101	80-120	1.63	20	

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



Definitions and Notes

Matador Production Company	Project Name:	Florence State 23 TB	
3122 National Parks HWY	Project Number:	23052-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/12/23 11:38

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

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

## Project Information

## Chain of Custody

Page 1 of 1

Client: Matador Production Company		Bill To		Lab Use Only		TAT		EPA Program			
Project: Florence State 23 TB		Attention: Clint Talley		Lab WO#		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Ashley Giovengo		Address: On File		E306045		Job Number		23052-0001		X	
Address: 3122 National Parks Highway		City, State, Zip: On File									
City, State, Zip: Carlsbad, NM 88220		Phone: 337-319-8398									
Phone: 575-988-0055		Email: clinton.talley@matadorresources.com									
Email: agiovengo@ensolum.com		Report due by:									

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC	NM	XL	GDGC	Remarks
10:00	6/5/23	S	1 jar	SS01 - 0.5'	1						X				
10:05	6/5/23	S	1 jar	SS02 - 0.5'	2						X				
10:10	6/5/23	S	1 jar	SS03 - 0.5'	3						X				
10:15	6/5/23	S	1 jar	SS04 - 0.5'	4						X				

Additional Instructions: Preserved on ice. Please cc agiovengo@ensolum.com, cole.burton@ensolum.com and clinton.talley@matadorresources.com on lab results.

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
<i>Connor Whitman</i>	6/5/23	2:50 pm	<i>Michelle Combs</i>	6-6-23	1100	
<i>Michelle Combs</i>	6-6-23	1700	<i>Andrew Meso</i>	6-6-23	1715	
<i>Andrew Meso</i>	6-6-23	2330	<i>Connor Whitman</i>	6/7/23	8:30	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other \_\_\_\_\_

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

## Envirotech Analytical Laboratory

Printed: 6/7/2023 10:59:04AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Production Company	Date Received:	06/07/23 08:30	Work Order ID:	E306045
Phone:	(575) 988-0055	Date Logged In:	06/06/23 16:11	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	06/13/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? Yes

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.



Report to:

Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Production Company

Project Name: Florence State 23 TB

Work Order: E306057

Job Number: 23052-0001

Received: 6/8/2023

Revision: 2

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
6/14/23

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 6/14/23

Ashley Giovengo  
3122 National Parks HWY  
Carlsbad, NM 88220



Project Name: Florence State 23 TB  
Workorder: E306057  
Date Received: 6/8/2023 8:35:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/8/2023 8:35:00AM, under the Project Name: Florence State 23 TB.

The analytical test results summarized in this report with the Project Name: Florence State 23 TB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
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**Alexa Michaels**  
Sample Custody Officer  
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**Rayny Hagan**  
Technical Representative  
Office: 505-421-LABS(5227)

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



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Sample Summary

Matador Production Company	Project Name:	Florence State 23 TB	Reported:
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/14/23 15:27

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH01-0'	E306057-01A	Soil	06/06/23	06/08/23	Glass Jar, 4 oz.
PH01-1'	E306057-02A	Soil	06/06/23	06/08/23	Glass Jar, 4 oz.
PH01-2'	E306057-03A	Soil	06/06/23	06/08/23	Glass Jar, 4 oz.
PH01-3'	E306057-04A	Soil	06/06/23	06/08/23	Glass Jar, 4 oz.
PH01-4'	E306057-05A	Soil	06/06/23	06/08/23	Glass Jar, 4 oz.
PH01-5'	E306057-06A	Soil	06/06/23	06/08/23	Glass Jar, 4 oz.



## Sample Data

Matador Production Company 3122 National Parks HWY Carlsbad NM, 88220	Project Name: Florence State 23 TB Project Number: 23052-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/14/2023 3:27:13PM
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PH01-0'

E306057-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY			Batch: 2323047
Benzene	ND	0.0250	1	06/08/23	06/08/23	
Ethylbenzene	ND	0.0250	1	06/08/23	06/08/23	
Toluene	ND	0.0250	1	06/08/23	06/08/23	
o-Xylene	ND	0.0250	1	06/08/23	06/08/23	
p,m-Xylene	ND	0.0500	1	06/08/23	06/08/23	
Total Xylenes	ND	0.0250	1	06/08/23	06/08/23	
Surrogate: 4-Bromochlorobenzene-PID	99.5 %	70-130		06/08/23	06/08/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY			Batch: 2323047
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/08/23	06/08/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.5 %	70-130		06/08/23	06/08/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM			Batch: 2323043
Diesel Range Organics (C10-C28)	322	25.0	1	06/08/23	06/09/23	
Oil Range Organics (C28-C36)	239	50.0	1	06/08/23	06/09/23	
Surrogate: n-Nonane	64.5 %	50-200		06/08/23	06/09/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA			Batch: 2324007
Chloride	1390	20.0	1	06/12/23	06/14/23	



Sample Data

Matador Production Company 3122 National Parks HWY Carlsbad NM, 88220	Project Name: Florence State 23 TB Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 6/14/2023 3:27:13PM
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PH01-1'

E306057-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2323047	
Benzene	ND	0.0250	1	06/08/23	06/08/23	
Ethylbenzene	ND	0.0250	1	06/08/23	06/08/23	
Toluene	ND	0.0250	1	06/08/23	06/08/23	
o-Xylene	ND	0.0250	1	06/08/23	06/08/23	
p,m-Xylene	ND	0.0500	1	06/08/23	06/08/23	
Total Xylenes	ND	0.0250	1	06/08/23	06/08/23	
Surrogate: 4-Bromochlorobenzene-PID	99.8 %	70-130		06/08/23	06/08/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2323047	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/08/23	06/08/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.9 %	70-130		06/08/23	06/08/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2323043	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/08/23	06/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/08/23	06/10/23	
Surrogate: n-Nonane	59.0 %	50-200		06/08/23	06/10/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2324007	
Chloride	2990	40.0	2	06/12/23	06/14/23	



## Sample Data

Matador Production Company	Project Name:	Florence State 23 TB	<b>Reported:</b> 6/14/2023 3:27:13PM
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

## PH01-2'

## E306057-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2323047	
Benzene	ND	0.0250	1	06/08/23	06/08/23	
Ethylbenzene	ND	0.0250	1	06/08/23	06/08/23	
Toluene	ND	0.0250	1	06/08/23	06/08/23	
o-Xylene	ND	0.0250	1	06/08/23	06/08/23	
p,m-Xylene	ND	0.0500	1	06/08/23	06/08/23	
Total Xylenes	ND	0.0250	1	06/08/23	06/08/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	99.7 %	70-130		06/08/23	06/08/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2323047	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/08/23	06/08/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	90.9 %	70-130		06/08/23	06/08/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2323043	
Diesel Range Organics (C10-C28)	52.4	25.0	1	06/08/23	06/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/08/23	06/10/23	
<i>Surrogate: n-Nonane</i>	67.9 %	50-200		06/08/23	06/10/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2324007	
Chloride	3040	40.0	2	06/12/23	06/14/23	



## Sample Data

Matador Production Company	Project Name:	Florence State 23 TB	<b>Reported:</b> 6/14/2023 3:27:13PM
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

## PH01-3'

## E306057-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2323047	
Benzene	ND	0.0250	1	06/08/23	06/08/23	
Ethylbenzene	ND	0.0250	1	06/08/23	06/08/23	
Toluene	ND	0.0250	1	06/08/23	06/08/23	
o-Xylene	ND	0.0250	1	06/08/23	06/08/23	
p,m-Xylene	ND	0.0500	1	06/08/23	06/08/23	
Total Xylenes	ND	0.0250	1	06/08/23	06/08/23	
Surrogate: 4-Bromochlorobenzene-PID	99.4 %	70-130		06/08/23	06/08/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2323047	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/08/23	06/08/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.4 %	70-130		06/08/23	06/08/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2323043	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/08/23	06/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/08/23	06/10/23	
Surrogate: n-Nonane	68.0 %	50-200		06/08/23	06/10/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2324007	
Chloride	1960	40.0	2	06/12/23	06/14/23	





## Sample Data

Matador Production Company	Project Name:	Florence State 23 TB	<b>Reported:</b> 6/14/2023 3:27:13PM
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

## PH01-5'

## E306057-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2323047	
Benzene	ND	0.0250	1	06/08/23	06/08/23	
Ethylbenzene	ND	0.0250	1	06/08/23	06/08/23	
Toluene	ND	0.0250	1	06/08/23	06/08/23	
o-Xylene	ND	0.0250	1	06/08/23	06/08/23	
p,m-Xylene	ND	0.0500	1	06/08/23	06/08/23	
Total Xylenes	ND	0.0250	1	06/08/23	06/08/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	99.7 %	70-130		06/08/23	06/08/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2323047	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/08/23	06/08/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	90.4 %	70-130		06/08/23	06/08/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2323043	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/08/23	06/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/08/23	06/10/23	
<i>Surrogate: n-Nonane</i>	68.4 %	50-200		06/08/23	06/10/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2324007	
Chloride	1030	20.0	1	06/12/23	06/14/23	



QC Summary Data

Matador Production Company	Project Name:	Florence State 23 TB	Reported:  6/14/2023 3:27:13PM
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2323047-BLK1) Prepared: 06/08/23 Analyzed: 06/08/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.87		8.00		98.4	70-130			

LCS (2323047-BS1) Prepared: 06/08/23 Analyzed: 06/08/23

Benzene	4.42	0.0250	5.00		88.5	70-130			
Ethylbenzene	4.67	0.0250	5.00		93.4	70-130			
Toluene	4.80	0.0250	5.00		95.9	70-130			
o-Xylene	4.93	0.0250	5.00		98.5	70-130			
p,m-Xylene	9.66	0.0500	10.0		96.6	70-130			
Total Xylenes	14.6	0.0250	15.0		97.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.94		8.00		99.3	70-130			

Matrix Spike (2323047-MS1) Source: E306055-01 Prepared: 06/08/23 Analyzed: 06/08/23

Benzene	4.48	0.0250	5.00	ND	89.5	54-133			
Ethylbenzene	4.75	0.0250	5.00	ND	95.1	61-133			
Toluene	4.87	0.0250	5.00	ND	97.4	61-130			
o-Xylene	5.02	0.0250	5.00	ND	100	63-131			
p,m-Xylene	9.82	0.0500	10.0	ND	98.2	63-131			
Total Xylenes	14.8	0.0250	15.0	ND	98.9	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.96		8.00		99.5	70-130			

Matrix Spike Dup (2323047-MSD1) Source: E306055-01 Prepared: 06/08/23 Analyzed: 06/08/23

Benzene	4.41	0.0250	5.00	ND	88.1	54-133	1.57	20	
Ethylbenzene	4.70	0.0250	5.00	ND	94.0	61-133	1.17	20	
Toluene	4.82	0.0250	5.00	ND	96.3	61-130	1.09	20	
o-Xylene	4.96	0.0250	5.00	ND	99.1	63-131	1.25	20	
p,m-Xylene	9.72	0.0500	10.0	ND	97.2	63-131	0.978	20	
Total Xylenes	14.7	0.0250	15.0	ND	97.9	63-131	1.07	20	
Surrogate: 4-Bromochlorobenzene-PID	7.98		8.00		99.8	70-130			



QC Summary Data

Matador Production Company	Project Name:	Florence State 23 TB	Reported:
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/14/2023 3:27:13PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

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

Blank (2323047-BLK1) Prepared: 06/08/23 Analyzed: 06/08/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.22		8.00		90.3	70-130			

LCS (2323047-BS2) Prepared: 06/08/23 Analyzed: 06/08/23

Gasoline Range Organics (C6-C10)	49.5	20.0	50.0		99.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.33		8.00		91.6	70-130			

Matrix Spike (2323047-MS2) Source: E306055-01 Prepared: 06/08/23 Analyzed: 06/08/23

Gasoline Range Organics (C6-C10)	50.8	20.0	50.0	ND	102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.4	70-130			

Matrix Spike Dup (2323047-MSD2) Source: E306055-01 Prepared: 06/08/23 Analyzed: 06/08/23

Gasoline Range Organics (C6-C10)	54.3	20.0	50.0	ND	109	70-130	6.68	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.9	70-130			



QC Summary Data

Matador Production Company	Project Name:	Florence State 23 TB	Reported:
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/14/2023 3:27:13PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2323043-BLK1)					Prepared: 06/08/23 Analyzed: 06/09/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	34.2		50.0		68.5	50-200			

LCS (2323043-BS1)					Prepared: 06/08/23 Analyzed: 06/09/23				
Diesel Range Organics (C10-C28)	239	25.0	250		95.8	38-132			
Surrogate: n-Nonane	32.8		50.0		65.6	50-200			

Matrix Spike (2323043-MS1)					Source: E306054-01		Prepared: 06/08/23 Analyzed: 06/09/23		
Diesel Range Organics (C10-C28)	238	25.0	250	ND	95.3	38-132			
Surrogate: n-Nonane	32.2		50.0		64.4	50-200			

Matrix Spike Dup (2323043-MSD1)					Source: E306054-01		Prepared: 06/08/23 Analyzed: 06/09/23		
Diesel Range Organics (C10-C28)	235	25.0	250	ND	93.9	38-132	1.53	20	
Surrogate: n-Nonane	31.5		50.0		62.9	50-200			



QC Summary Data

Matador Production Company	Project Name:	Florence State 23 TB	Reported:
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/14/2023 3:27:13PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2324007-BLK1)					Prepared: 06/12/23 Analyzed: 06/14/23				
Chloride	ND	20.0							
LCS (2324007-BS1)					Prepared: 06/12/23 Analyzed: 06/14/23				
Chloride	263	20.0	250		105	90-110			
Matrix Spike (2324007-MS1)					Source: E306057-01		Prepared: 06/12/23 Analyzed: 06/14/23		
Chloride	1680	20.0	250	1390	114	80-120			
Matrix Spike Dup (2324007-MSD1)					Source: E306057-01		Prepared: 06/12/23 Analyzed: 06/14/23		
Chloride	1890	20.0	250	1390	198	80-120	11.8	20	M2

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



Definitions and Notes

Matador Production Company	Project Name:	Florence State 23 TB	
3122 National Parks HWY	Project Number:	23052-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/14/23 15:27

- M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

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





<b>Client:</b> Matador Production Company <b>Project:</b> Florence State 23 TB <b>Project Manager:</b> Ashley Giovengo <b>Address:</b> 3122 National Parks Highway <b>City, State, Zip:</b> Carlsbad, NM 88220 <b>Phone:</b> 575-988-0055 <b>Email:</b> agiovengo@ensolum.com <b>Report due by:</b>	<b>Bill To</b> <b>Attention:</b> Clint Talley <b>Address:</b> On File <b>City, State, Zip:</b> On File <b>Phone:</b> 337-319-8398 <b>Email:</b> clinton.talley@matadorresources.com	<b>Lab Use Only</b>		<b>TAT</b>				<b>EPA Program</b>					
		<b>Lab WO#</b> E 306057	<b>Job Number</b> 23052-0001	<b>1D</b>	<b>2D</b>	<b>3D</b>	<b>Standard</b>	<b>CWA</b>	<b>SDWA</b>				
		<b>Analysis and Method</b>							<b>RCRA</b>				
								<b>State</b>					
		<b>TPH GRO/DRO/ORO by 8015</b>	<b>BTEX by 8021</b>	<b>VOC by 8260</b>	<b>Metals 6010</b>	<b>Chloride 300.0</b>	<b>BGDOC NM</b>	<b>GDOC TX</b>	<b>NM</b>	<b>CO</b>	<b>UT</b>	<b>AZ</b>	<b>TX</b>
									X				

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
8:31	6/6/23	S	1 jar	PH01-01'	1						X		
8:34	6/6/23	S	1 jar	PH01-1'	2						X		
8:38	6/6/23	S	1 jar	PH01-2'	3						X		
8:45	6/6/23	S	1 jar	PH01-3'	4						X		
9:08	6/6/23	S	1 jar	PH01-4'	5						X		
9:27	6/6/23	S	1 jar	PH01-5'	6						X		

**Additional Instructions:** Preserved on ice. Please cc agiovengo@ensolum.com, cole.burton@ensolum.com and clinton.talley@matadorresources.com on lab results.

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <i>[Signature]</i>	Date 6/7/23	Time 945	Received by: (Signature) <i>Michelle Coughs</i>	Date 6-7-23	Time 945	<b>Lab Use Only</b> Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <i>Michelle Coughs</i>	Date 6-7-23	Time 1630	Received by: (Signature) <i>Mike Messo</i>	Date 6-7-23	Time 1730	
Relinquished by: (Signature) <i>Mike Messo</i>	Date 6-8-23	Time 0100	Received by: (Signature) <i>Clint Talley</i>	Date 6/8/23	Time 8:35	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



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## Envirotech Analytical Laboratory

Printed: 6/8/2023 3:42:29PM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Production Company	Date Received:	06/08/23 08:35	Work Order ID:	E306057
Phone:	(575) 988-0055	Date Logged In:	06/07/23 16:10	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	06/14/23 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? No
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/Resolution

PH01-4 sample not received by lab.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.



## Project Information

## Chain of Custody

Page 1 of 1

Client: Matador Production Company					Bill To		Lab Use Only				TAT				EPA Program			
Project: Florence State 23 TB					Attention: Clint Talley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA		
Project Manager: Ashley Giovengo					Address: On File		E300057		23052-0001					X				
Address: 3122 National Parks Highway					City, State, Zip: On File		Analysis and Method										RCRA	
City, State, Zip: Carlsbad, NM 88220					Phone: 337-319-8398													
Phone: 575-988-0055					Email: clinton.talley@matadorresources.com													
Email: agiovengo@ensolum.com																	State	
Report due by:																	NM CO UT AZ TX	
																	X	
																	Remarks	
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC NM		GDGC TX				
8:31	6/6/23	S	1 jar	PH01-0'	1							X						
8:34	6/6/23	S	1 jar	PH01-1'	2							X						
8:38	6/6/23	S	1 jar	PH01-2'	3							X						
8:45	6/6/23	S	1 jar	PH01-3'	4							X						
<del>9:08</del>	<del>6/6/23</del>	<del>S</del>	<del>1 jar</del>	<del>PH01-4'</del>	<del>5</del>							<del>X</del>						
9:27	6/6/23	S	1 jar	PH01-5'	6							X						

Additional Instructions: Preserved on ice. Please cc agiovengo@ensolum.com, cole.burton@ensolum.com and clinton.talley@matadorresources.com on lab results.

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: \_\_\_\_\_

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only
<i>[Signature]</i>	6/7/23	945	<i>Michelle Cuyler</i>	6-7-23	945	Received on ice: Y / N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 T2 T3
<i>Michelle Cuyler</i>	6-7-23	1630	<i>Andra Messo</i>	6-7-23	1730	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C
<i>Andra Messo</i>	6-8-23	0100	<i>Caitlin Man</i>	6/8/23	8:35	4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other \_\_\_\_\_

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



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Report to:

Ashley Giovengo



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*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Production Company

Project Name: Florence State 23 TB

Work Order: E306054

Job Number: 23052-0001

Received: 6/8/2023

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
6/13/23

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 6/13/23



Ashley Giovengo  
3122 National Parks HWY  
Carlsbad, NM 88220

Project Name: Florence State 23 TB  
Workorder: E306054  
Date Received: 6/8/2023 8:35:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/8/2023 8:35:00AM, under the Project Name: Florence State 23 TB.

The analytical test results summarized in this report with the Project Name: Florence State 23 TB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

**Raina Schwanz**  
Laboratory Administrator  
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**Alexa Michaels**  
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**Rayny Hagan**  
Technical Representative  
Office: 505-421-LABS(5227)

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

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Sample Summary

Matador Production Company	Project Name:	Florence State 23 TB	Reported:
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/13/23 15:52

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH01 - 7.5'	E306054-01A	Soil	06/06/23	06/08/23	Glass Jar, 4 oz.



## Sample Data

Matador Production Company 3122 National Parks HWY Carlsbad NM, 88220	Project Name: Florence State 23 TB Project Number: 23052-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/13/2023 3:52:46PM
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### PH01 - 7.5'

#### E306054-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2323047	
Benzene	ND	0.0250	1	06/08/23	06/08/23	
Ethylbenzene	ND	0.0250	1	06/08/23	06/08/23	
Toluene	ND	0.0250	1	06/08/23	06/08/23	
o-Xylene	ND	0.0250	1	06/08/23	06/08/23	
p,m-Xylene	ND	0.0500	1	06/08/23	06/08/23	
Total Xylenes	ND	0.0250	1	06/08/23	06/08/23	
Surrogate: 4-Bromochlorobenzene-PID	99.0 %	70-130		06/08/23	06/08/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2323047	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/08/23	06/08/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.3 %	70-130		06/08/23	06/08/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2323043	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/08/23	06/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/08/23	06/09/23	
Surrogate: n-Nonane	67.6 %	50-200		06/08/23	06/09/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2323077	
Chloride	1310	20.0	1	06/09/23	06/09/23	



QC Summary Data

Matador Production Company	Project Name:	Florence State 23 TB	Reported:  6/13/2023 3:52:46PM
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2323047-BLK1) Prepared: 06/08/23 Analyzed: 06/08/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.87		8.00		98.4	70-130			

LCS (2323047-BS1) Prepared: 06/08/23 Analyzed: 06/08/23

Benzene	4.42	0.0250	5.00		88.5	70-130			
Ethylbenzene	4.67	0.0250	5.00		93.4	70-130			
Toluene	4.80	0.0250	5.00		95.9	70-130			
o-Xylene	4.93	0.0250	5.00		98.5	70-130			
p,m-Xylene	9.66	0.0500	10.0		96.6	70-130			
Total Xylenes	14.6	0.0250	15.0		97.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.94		8.00		99.3	70-130			

Matrix Spike (2323047-MS1) Source: E306055-01 Prepared: 06/08/23 Analyzed: 06/08/23

Benzene	4.48	0.0250	5.00	ND	89.5	54-133			
Ethylbenzene	4.75	0.0250	5.00	ND	95.1	61-133			
Toluene	4.87	0.0250	5.00	ND	97.4	61-130			
o-Xylene	5.02	0.0250	5.00	ND	100	63-131			
p,m-Xylene	9.82	0.0500	10.0	ND	98.2	63-131			
Total Xylenes	14.8	0.0250	15.0	ND	98.9	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.96		8.00		99.5	70-130			

Matrix Spike Dup (2323047-MSD1) Source: E306055-01 Prepared: 06/08/23 Analyzed: 06/08/23

Benzene	4.41	0.0250	5.00	ND	88.1	54-133	1.57	20	
Ethylbenzene	4.70	0.0250	5.00	ND	94.0	61-133	1.17	20	
Toluene	4.82	0.0250	5.00	ND	96.3	61-130	1.09	20	
o-Xylene	4.96	0.0250	5.00	ND	99.1	63-131	1.25	20	
p,m-Xylene	9.72	0.0500	10.0	ND	97.2	63-131	0.978	20	
Total Xylenes	14.7	0.0250	15.0	ND	97.9	63-131	1.07	20	
Surrogate: 4-Bromochlorobenzene-PID	7.98		8.00		99.8	70-130			



QC Summary Data

Matador Production Company	Project Name:	Florence State 23 TB	Reported:
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/13/2023 3:52:46PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2323047-BLK1) Prepared: 06/08/23 Analyzed: 06/08/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.22		8.00		90.3	70-130			

LCS (2323047-BS2) Prepared: 06/08/23 Analyzed: 06/08/23

Gasoline Range Organics (C6-C10)	49.5	20.0	50.0		99.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.33		8.00		91.6	70-130			

Matrix Spike (2323047-MS2) Source: E306055-01 Prepared: 06/08/23 Analyzed: 06/08/23

Gasoline Range Organics (C6-C10)	50.8	20.0	50.0	ND	102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.4	70-130			

Matrix Spike Dup (2323047-MSD2) Source: E306055-01 Prepared: 06/08/23 Analyzed: 06/08/23

Gasoline Range Organics (C6-C10)	54.3	20.0	50.0	ND	109	70-130	6.68	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.9	70-130			



QC Summary Data

Matador Production Company	Project Name:	Florence State 23 TB	Reported:
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/13/2023 3:52:46PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2323043-BLK1)					Prepared: 06/08/23 Analyzed: 06/09/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	34.2		50.0		68.5	50-200			

LCS (2323043-BS1)					Prepared: 06/08/23 Analyzed: 06/09/23				
Diesel Range Organics (C10-C28)	239	25.0	250		95.8	38-132			
Surrogate: n-Nonane	32.8		50.0		65.6	50-200			

Matrix Spike (2323043-MS1)					Source: E306054-01		Prepared: 06/08/23 Analyzed: 06/09/23		
Diesel Range Organics (C10-C28)	238	25.0	250	ND	95.3	38-132			
Surrogate: n-Nonane	32.2		50.0		64.4	50-200			

Matrix Spike Dup (2323043-MSD1)					Source: E306054-01		Prepared: 06/08/23 Analyzed: 06/09/23		
Diesel Range Organics (C10-C28)	235	25.0	250	ND	93.9	38-132	1.53	20	
Surrogate: n-Nonane	31.5		50.0		62.9	50-200			



QC Summary Data

Matador Production Company	Project Name:	Florence State 23 TB	Reported:
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/13/2023 3:52:46PM

Anions by EPA 300.0/9056A

Analyst: BA

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

Blank (2323077-BLK1)					Prepared: 06/09/23 Analyzed: 06/09/23				
Chloride	ND	20.0							
LCS (2323077-BS1)					Prepared: 06/09/23 Analyzed: 06/09/23				
Chloride	265	20.0	250		106	90-110			
Matrix Spike (2323077-MS1)					Source: E306077-01		Prepared: 06/09/23 Analyzed: 06/09/23		
Chloride	291	20.0	250	32.8	103	80-120			
Matrix Spike Dup (2323077-MSD1)					Source: E306077-01		Prepared: 06/09/23 Analyzed: 06/09/23		
Chloride	286	20.0	250	32.8	101	80-120	1.63	20	

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



Definitions and Notes

Matador Production Company	Project Name:	Florence State 23 TB	
3122 National Parks HWY	Project Number:	23052-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/13/23 15:52

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

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





envirotech

## Envirotech Analytical Laboratory

Printed: 6/8/2023 10:23:06AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Production Company	Date Received:	06/08/23 08:35	Work Order ID:	E306054
Phone:	(575) 988-0055	Date Logged In:	06/07/23 16:02	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	06/14/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? Yes

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:

Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Production Company

Project Name: Florence State 23 TB

Work Order: E306055

Job Number: 23052-0001

Received: 6/8/2023

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
6/13/23

5796 U.S. Hwy 64  
Farmington, NM 87401

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



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
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Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.



Date Reported: 6/13/23



Ashley Giovengo  
3122 National Parks HWY  
Carlsbad, NM 88220

Project Name: Florence State 23 TB  
Workorder: E306055  
Date Received: 6/8/2023 8:35:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/8/2023 8:35:00AM, under the Project Name: Florence State 23 TB.

The analytical test results summarized in this report with the Project Name: Florence State 23 TB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

**Raina Schwanz**  
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Office: 505-632-1881  
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**Alexa Michaels**  
Sample Custody Officer  
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**West Texas Midland/Odessa Area**  
**Rayny Hagan**  
Technical Representative  
Office: 505-421-LABS(5227)

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

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Sample Summary

Matador Production Company	Project Name:	Florence State 23 TB	Reported:
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/13/23 15:54

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH01 - 8.5'	E306055-01A	Soil	06/06/23	06/08/23	Glass Jar, 4 oz.



## Sample Data

Matador Production Company 3122 National Parks HWY Carlsbad NM, 88220	Project Name: Florence State 23 TB Project Number: 23052-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/13/2023 3:54:14PM
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## PH01 - 8.5'

## E306055-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2323047	
Benzene	ND	0.0250	1	06/08/23	06/08/23	
Ethylbenzene	ND	0.0250	1	06/08/23	06/08/23	
Toluene	ND	0.0250	1	06/08/23	06/08/23	
o-Xylene	ND	0.0250	1	06/08/23	06/08/23	
p,m-Xylene	ND	0.0500	1	06/08/23	06/08/23	
Total Xylenes	ND	0.0250	1	06/08/23	06/08/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	99.0 %	70-130		06/08/23	06/08/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2323047	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/08/23	06/08/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	91.2 %	70-130		06/08/23	06/08/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2323043	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/08/23	06/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/08/23	06/09/23	
<i>Surrogate: n-Nonane</i>	67.9 %	50-200		06/08/23	06/09/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2323077	
Chloride	995	20.0	1	06/09/23	06/09/23	





QC Summary Data

Matador Production Company	Project Name:	Florence State 23 TB	Reported:  6/13/2023 3:54:14PM
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2323047-BLK1) Prepared: 06/08/23 Analyzed: 06/08/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.87		8.00		98.4	70-130			

LCS (2323047-BS1) Prepared: 06/08/23 Analyzed: 06/08/23

Benzene	4.42	0.0250	5.00		88.5	70-130			
Ethylbenzene	4.67	0.0250	5.00		93.4	70-130			
Toluene	4.80	0.0250	5.00		95.9	70-130			
o-Xylene	4.93	0.0250	5.00		98.5	70-130			
p,m-Xylene	9.66	0.0500	10.0		96.6	70-130			
Total Xylenes	14.6	0.0250	15.0		97.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.94		8.00		99.3	70-130			

Matrix Spike (2323047-MS1) Source: E306055-01 Prepared: 06/08/23 Analyzed: 06/08/23

Benzene	4.48	0.0250	5.00	ND	89.5	54-133			
Ethylbenzene	4.75	0.0250	5.00	ND	95.1	61-133			
Toluene	4.87	0.0250	5.00	ND	97.4	61-130			
o-Xylene	5.02	0.0250	5.00	ND	100	63-131			
p,m-Xylene	9.82	0.0500	10.0	ND	98.2	63-131			
Total Xylenes	14.8	0.0250	15.0	ND	98.9	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.96		8.00		99.5	70-130			

Matrix Spike Dup (2323047-MSD1) Source: E306055-01 Prepared: 06/08/23 Analyzed: 06/08/23

Benzene	4.41	0.0250	5.00	ND	88.1	54-133	1.57	20	
Ethylbenzene	4.70	0.0250	5.00	ND	94.0	61-133	1.17	20	
Toluene	4.82	0.0250	5.00	ND	96.3	61-130	1.09	20	
o-Xylene	4.96	0.0250	5.00	ND	99.1	63-131	1.25	20	
p,m-Xylene	9.72	0.0500	10.0	ND	97.2	63-131	0.978	20	
Total Xylenes	14.7	0.0250	15.0	ND	97.9	63-131	1.07	20	
Surrogate: 4-Bromochlorobenzene-PID	7.98		8.00		99.8	70-130			



QC Summary Data

Matador Production Company	Project Name:	Florence State 23 TB	Reported:
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/13/2023 3:54:14PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2323047-BLK1) Prepared: 06/08/23 Analyzed: 06/08/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.22		8.00		90.3	70-130			

LCS (2323047-BS2) Prepared: 06/08/23 Analyzed: 06/08/23

Gasoline Range Organics (C6-C10)	49.5	20.0	50.0		99.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.33		8.00		91.6	70-130			

Matrix Spike (2323047-MS2) Source: E306055-01 Prepared: 06/08/23 Analyzed: 06/08/23

Gasoline Range Organics (C6-C10)	50.8	20.0	50.0	ND	102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.4	70-130			

Matrix Spike Dup (2323047-MSD2) Source: E306055-01 Prepared: 06/08/23 Analyzed: 06/08/23

Gasoline Range Organics (C6-C10)	54.3	20.0	50.0	ND	109	70-130	6.68	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.9	70-130			



QC Summary Data

Matador Production Company	Project Name:	Florence State 23 TB	Reported:
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/13/2023 3:54:14PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2323043-BLK1)					Prepared: 06/08/23 Analyzed: 06/09/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	34.2		50.0		68.5	50-200			

LCS (2323043-BS1)					Prepared: 06/08/23 Analyzed: 06/09/23				
Diesel Range Organics (C10-C28)	239	25.0	250		95.8	38-132			
Surrogate: n-Nonane	32.8		50.0		65.6	50-200			

Matrix Spike (2323043-MS1)					Source: E306054-01		Prepared: 06/08/23 Analyzed: 06/09/23		
Diesel Range Organics (C10-C28)	238	25.0	250	ND	95.3	38-132			
Surrogate: n-Nonane	32.2		50.0		64.4	50-200			

Matrix Spike Dup (2323043-MSD1)					Source: E306054-01		Prepared: 06/08/23 Analyzed: 06/09/23		
Diesel Range Organics (C10-C28)	235	25.0	250	ND	93.9	38-132	1.53	20	
Surrogate: n-Nonane	31.5		50.0		62.9	50-200			



QC Summary Data

Matador Production Company	Project Name:	Florence State 23 TB	Reported:
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/13/2023 3:54:14PM

Anions by EPA 300.0/9056A

Analyst: BA

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

Blank (2323077-BLK1)					Prepared: 06/09/23 Analyzed: 06/09/23				
Chloride	ND	20.0							
LCS (2323077-BS1)					Prepared: 06/09/23 Analyzed: 06/09/23				
Chloride	265	20.0	250		106	90-110			
Matrix Spike (2323077-MS1)					Source: E306077-01		Prepared: 06/09/23 Analyzed: 06/09/23		
Chloride	291	20.0	250	32.8	103	80-120			
Matrix Spike Dup (2323077-MSD1)					Source: E306077-01		Prepared: 06/09/23 Analyzed: 06/09/23		
Chloride	286	20.0	250	32.8	101	80-120	1.63	20	

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



Definitions and Notes

Matador Production Company	Project Name:	Florence State 23 TB	
3122 National Parks HWY	Project Number:	23052-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/13/23 15:54

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

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



Page 11 of 12

## Envirotech Analytical Laboratory

Printed: 6/8/2023 10:25:34AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Production Company	Date Received:	06/08/23 08:35	Work Order ID:	E306055
Phone:	(575) 988-0055	Date Logged In:	06/07/23 16:07	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	06/14/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? Yes

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.



Report to:

Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Production Company

Project Name: Florence State 23 TB

Work Order: E306056

Job Number: 23052-0001

Received: 6/8/2023

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
6/13/23

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 6/13/23



Ashley Giovengo  
3122 National Parks HWY  
Carlsbad, NM 88220

Project Name: Florence State 23 TB  
Workorder: E306056  
Date Received: 6/8/2023 8:35:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/8/2023 8:35:00AM, under the Project Name: Florence State 23 TB.

The analytical test results summarized in this report with the Project Name: Florence State 23 TB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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**West Texas Midland/Odessa Area**  
**Rayny Hagan**  
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Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

Matador Production Company	Project Name:	Florence State 23 TB	Reported:
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/13/23 15:55

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH01 - 9.5'	E306056-01A	Soil	06/06/23	06/08/23	Glass Jar, 4 oz.



## Sample Data

Matador Production Company 3122 National Parks HWY Carlsbad NM, 88220	Project Name: Florence State 23 TB Project Number: 23052-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/13/2023 3:55:13PM
---	--	---

## PH01 - 9.5'

## E306056-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2323047	
Benzene	ND	0.0250	1	06/08/23	06/08/23	
Ethylbenzene	ND	0.0250	1	06/08/23	06/08/23	
Toluene	ND	0.0250	1	06/08/23	06/08/23	
o-Xylene	ND	0.0250	1	06/08/23	06/08/23	
p,m-Xylene	ND	0.0500	1	06/08/23	06/08/23	
Total Xylenes	ND	0.0250	1	06/08/23	06/08/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	99.0 %	70-130		06/08/23	06/08/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2323047	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/08/23	06/08/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	91.0 %	70-130		06/08/23	06/08/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2323043	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/08/23	06/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/08/23	06/09/23	
<i>Surrogate: n-Nonane</i>	67.6 %	50-200		06/08/23	06/09/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2323077	
Chloride	1140	20.0	1	06/09/23	06/09/23	



QC Summary Data

Matador Production Company	Project Name:	Florence State 23 TB	Reported:
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/13/2023 3:55:13PM

Volatile Organics by EPA 8021B

Analyst: IY

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

Blank (2323047-BLK1) Prepared: 06/08/23 Analyzed: 06/08/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.87		8.00		98.4	70-130			

LCS (2323047-BS1) Prepared: 06/08/23 Analyzed: 06/08/23

Benzene	4.42	0.0250	5.00		88.5	70-130			
Ethylbenzene	4.67	0.0250	5.00		93.4	70-130			
Toluene	4.80	0.0250	5.00		95.9	70-130			
o-Xylene	4.93	0.0250	5.00		98.5	70-130			
p,m-Xylene	9.66	0.0500	10.0		96.6	70-130			
Total Xylenes	14.6	0.0250	15.0		97.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.94		8.00		99.3	70-130			

Matrix Spike (2323047-MS1) Source: E306055-01 Prepared: 06/08/23 Analyzed: 06/08/23

Benzene	4.48	0.0250	5.00	ND	89.5	54-133			
Ethylbenzene	4.75	0.0250	5.00	ND	95.1	61-133			
Toluene	4.87	0.0250	5.00	ND	97.4	61-130			
o-Xylene	5.02	0.0250	5.00	ND	100	63-131			
p,m-Xylene	9.82	0.0500	10.0	ND	98.2	63-131			
Total Xylenes	14.8	0.0250	15.0	ND	98.9	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.96		8.00		99.5	70-130			

Matrix Spike Dup (2323047-MSD1) Source: E306055-01 Prepared: 06/08/23 Analyzed: 06/08/23

Benzene	4.41	0.0250	5.00	ND	88.1	54-133	1.57	20	
Ethylbenzene	4.70	0.0250	5.00	ND	94.0	61-133	1.17	20	
Toluene	4.82	0.0250	5.00	ND	96.3	61-130	1.09	20	
o-Xylene	4.96	0.0250	5.00	ND	99.1	63-131	1.25	20	
p,m-Xylene	9.72	0.0500	10.0	ND	97.2	63-131	0.978	20	
Total Xylenes	14.7	0.0250	15.0	ND	97.9	63-131	1.07	20	
Surrogate: 4-Bromochlorobenzene-PID	7.98		8.00		99.8	70-130			



QC Summary Data

Matador Production Company	Project Name:	Florence State 23 TB	Reported:
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/13/2023 3:55:13PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2323047-BLK1) Prepared: 06/08/23 Analyzed: 06/08/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.22		8.00		90.3	70-130			

LCS (2323047-BS2) Prepared: 06/08/23 Analyzed: 06/08/23

Gasoline Range Organics (C6-C10)	49.5	20.0	50.0		99.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.33		8.00		91.6	70-130			

Matrix Spike (2323047-MS2) Source: E306055-01 Prepared: 06/08/23 Analyzed: 06/08/23

Gasoline Range Organics (C6-C10)	50.8	20.0	50.0	ND	102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.4	70-130			

Matrix Spike Dup (2323047-MSD2) Source: E306055-01 Prepared: 06/08/23 Analyzed: 06/08/23

Gasoline Range Organics (C6-C10)	54.3	20.0	50.0	ND	109	70-130	6.68	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.9	70-130			





QC Summary Data

Matador Production Company	Project Name:	Florence State 23 TB	Reported:
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/13/2023 3:55:13PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2323043-BLK1)					Prepared: 06/08/23 Analyzed: 06/09/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	34.2		50.0		68.5	50-200			

LCS (2323043-BS1)					Prepared: 06/08/23 Analyzed: 06/09/23				
Diesel Range Organics (C10-C28)	239	25.0	250		95.8	38-132			
Surrogate: n-Nonane	32.8		50.0		65.6	50-200			

Matrix Spike (2323043-MS1)					Source: E306054-01		Prepared: 06/08/23 Analyzed: 06/09/23		
Diesel Range Organics (C10-C28)	238	25.0	250	ND	95.3	38-132			
Surrogate: n-Nonane	32.2		50.0		64.4	50-200			

Matrix Spike Dup (2323043-MSD1)					Source: E306054-01		Prepared: 06/08/23 Analyzed: 06/09/23		
Diesel Range Organics (C10-C28)	235	25.0	250	ND	93.9	38-132	1.53	20	
Surrogate: n-Nonane	31.5		50.0		62.9	50-200			



QC Summary Data

Matador Production Company	Project Name:	Florence State 23 TB	Reported:
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/13/2023 3:55:13PM

Anions by EPA 300.0/9056A

Analyst: BA

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

Blank (2323077-BLK1)					Prepared: 06/09/23 Analyzed: 06/09/23				
Chloride	ND	20.0							
LCS (2323077-BS1)					Prepared: 06/09/23 Analyzed: 06/09/23				
Chloride	265	20.0	250		106	90-110			
Matrix Spike (2323077-MS1)					Source: E306077-01		Prepared: 06/09/23 Analyzed: 06/09/23		
Chloride	291	20.0	250	32.8	103	80-120			
Matrix Spike Dup (2323077-MSD1)					Source: E306077-01		Prepared: 06/09/23 Analyzed: 06/09/23		
Chloride	286	20.0	250	32.8	101	80-120	1.63	20	

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



Definitions and Notes

Matador Production Company	Project Name:	Florence State 23 TB	
3122 National Parks HWY	Project Number:	23052-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/13/23 15:55

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

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

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

## Envirotech Analytical Laboratory

Printed: 6/8/2023 10:28:30AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Production Company	Date Received:	06/08/23 08:35	Work Order ID:	E306056
Phone:	(575) 988-0055	Date Logged In:	06/07/23 16:08	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	06/14/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? Yes

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.



Report to:

Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Production Company

Project Name: Florence State 23 TB

Work Order: E306061

Job Number: 23052-0001

Received: 6/8/2023

Revision: 2

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
6/16/23

5796 U.S. Hwy 64  
Farmington, NM 87401

Phone: (505) 632-1881  
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Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
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Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.



Date Reported: 6/16/23

Ashley Giovengo  
3122 National Parks HWY  
Carlsbad, NM 88220



Project Name: Florence State 23 TB  
Workorder: E306061  
Date Received: 6/8/2023 8:35:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/8/2023 8:35:00AM, under the Project Name: Florence State 23 TB.

The analytical test results summarized in this report with the Project Name: Florence State 23 TB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

**Walter Hinchman**  
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**West Texas Midland/Odessa Area**  
**Rayny Hagan**  
Technical Representative  
Office: 505-421-LABS(5227)

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

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Sample Summary

Matador Production Company	Project Name:	Florence State 23 TB	Reported:
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/16/23 12:51

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH02 - 0'	E306061-01A	Soil	06/06/23	06/08/23	Glass Jar, 4 oz.
PH02 - 1'	E306061-02A	Soil	06/06/23	06/08/23	Glass Jar, 4 oz.
PH02 - 2'	E306061-03A	Soil	06/06/23	06/08/23	Glass Jar, 4 oz.
PH02 - 3'	E306061-04A	Soil	06/06/23	06/08/23	Glass Jar, 4 oz.



Sample Data

Matador Production Company 3122 National Parks HWY Carlsbad NM, 88220	Project Name: Florence State 23 TB Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 6/16/2023 12:51:21PM
---	--	-----------------------------------

PH02 - 0'

E306061-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2323047	
Benzene	ND	0.0250	1	06/08/23	06/08/23	
Ethylbenzene	ND	0.0250	1	06/08/23	06/08/23	
Toluene	ND	0.0250	1	06/08/23	06/08/23	
o-Xylene	ND	0.0250	1	06/08/23	06/08/23	
p,m-Xylene	ND	0.0500	1	06/08/23	06/08/23	
Total Xylenes	ND	0.0250	1	06/08/23	06/08/23	
Surrogate: 4-Bromochlorobenzene-PID	96.3 %	70-130		06/08/23	06/08/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2323047	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/08/23	06/08/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.7 %	70-130		06/08/23	06/08/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2323043	
Diesel Range Organics (C10-C28)	131	25.0	1	06/08/23	06/10/23	
Oil Range Organics (C28-C36)	211	50.0	1	06/08/23	06/10/23	
Surrogate: n-Nonane	68.6 %	50-200		06/08/23	06/10/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2324007	
Chloride	2570	40.0	2	06/12/23	06/14/23	



## Sample Data

Matador Production Company	Project Name:	Florence State 23 TB	<b>Reported:</b> 6/16/2023 12:51:21PM
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

## PH02 - 1'

## E306061-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2323047	
Benzene	ND	0.0250	1	06/08/23	06/08/23	
Ethylbenzene	ND	0.0250	1	06/08/23	06/08/23	
Toluene	ND	0.0250	1	06/08/23	06/08/23	
o-Xylene	ND	0.0250	1	06/08/23	06/08/23	
p,m-Xylene	ND	0.0500	1	06/08/23	06/08/23	
Total Xylenes	ND	0.0250	1	06/08/23	06/08/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.7 %	70-130		06/08/23	06/08/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2323047	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/08/23	06/08/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	90.1 %	70-130		06/08/23	06/08/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2323043	
Diesel Range Organics (C10-C28)	133	25.0	1	06/08/23	06/10/23	
Oil Range Organics (C28-C36)	380	50.0	1	06/08/23	06/10/23	
<i>Surrogate: n-Nonane</i>	71.4 %	50-200		06/08/23	06/10/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2324007	
Chloride	254	20.0	1	06/12/23	06/14/23	



## Sample Data

Matador Production Company	Project Name:	Florence State 23 TB	<b>Reported:</b> 6/16/2023 12:51:21PM
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

## PH02 - 2'

## E306061-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2323047	
Benzene	ND	0.0250	1	06/08/23	06/08/23	
Ethylbenzene	ND	0.0250	1	06/08/23	06/08/23	
Toluene	ND	0.0250	1	06/08/23	06/08/23	
o-Xylene	ND	0.0250	1	06/08/23	06/08/23	
p,m-Xylene	ND	0.0500	1	06/08/23	06/08/23	
Total Xylenes	ND	0.0250	1	06/08/23	06/08/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	96.3 %	70-130		06/08/23	06/08/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2323047	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/08/23	06/08/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	91.3 %	70-130		06/08/23	06/08/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2323043	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/08/23	06/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/08/23	06/10/23	
<i>Surrogate: n-Nonane</i>	65.6 %	50-200		06/08/23	06/10/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2324007	
Chloride	320	20.0	1	06/12/23	06/14/23	





## Sample Data

Matador Production Company	Project Name:	Florence State 23 TB	<b>Reported:</b> 6/16/2023 12:51:21PM
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

## PH02 - 3'

## E306061-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2323047	
Benzene	ND	0.0250	1	06/08/23	06/08/23	
Ethylbenzene	ND	0.0250	1	06/08/23	06/08/23	
Toluene	ND	0.0250	1	06/08/23	06/08/23	
o-Xylene	ND	0.0250	1	06/08/23	06/08/23	
p,m-Xylene	ND	0.0500	1	06/08/23	06/08/23	
Total Xylenes	ND	0.0250	1	06/08/23	06/08/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.8 %	70-130		06/08/23	06/08/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2323047	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/08/23	06/08/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	90.2 %	70-130		06/08/23	06/08/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2323043	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/08/23	06/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/08/23	06/10/23	
<i>Surrogate: n-Nonane</i>	68.9 %	50-200		06/08/23	06/10/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2324007	
Chloride	235	20.0	1	06/12/23	06/14/23	



QC Summary Data

Matador Production Company	Project Name:	Florence State 23 TB	Reported:
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/16/2023 12:51:21PM

Volatile Organics by EPA 8021B

Analyst: IY

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

Blank (2323047-BLK1) Prepared: 06/08/23 Analyzed: 06/08/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.87		8.00		98.4	70-130			

LCS (2323047-BS1) Prepared: 06/08/23 Analyzed: 06/08/23

Benzene	4.42	0.0250	5.00		88.5	70-130			
Ethylbenzene	4.67	0.0250	5.00		93.4	70-130			
Toluene	4.80	0.0250	5.00		95.9	70-130			
o-Xylene	4.93	0.0250	5.00		98.5	70-130			
p,m-Xylene	9.66	0.0500	10.0		96.6	70-130			
Total Xylenes	14.6	0.0250	15.0		97.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.94		8.00		99.3	70-130			

Matrix Spike (2323047-MS1) Source: E306055-01 Prepared: 06/08/23 Analyzed: 06/08/23

Benzene	4.48	0.0250	5.00	ND	89.5	54-133			
Ethylbenzene	4.75	0.0250	5.00	ND	95.1	61-133			
Toluene	4.87	0.0250	5.00	ND	97.4	61-130			
o-Xylene	5.02	0.0250	5.00	ND	100	63-131			
p,m-Xylene	9.82	0.0500	10.0	ND	98.2	63-131			
Total Xylenes	14.8	0.0250	15.0	ND	98.9	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.96		8.00		99.5	70-130			

Matrix Spike Dup (2323047-MSD1) Source: E306055-01 Prepared: 06/08/23 Analyzed: 06/08/23

Benzene	4.41	0.0250	5.00	ND	88.1	54-133	1.57	20	
Ethylbenzene	4.70	0.0250	5.00	ND	94.0	61-133	1.17	20	
Toluene	4.82	0.0250	5.00	ND	96.3	61-130	1.09	20	
o-Xylene	4.96	0.0250	5.00	ND	99.1	63-131	1.25	20	
p,m-Xylene	9.72	0.0500	10.0	ND	97.2	63-131	0.978	20	
Total Xylenes	14.7	0.0250	15.0	ND	97.9	63-131	1.07	20	
Surrogate: 4-Bromochlorobenzene-PID	7.98		8.00		99.8	70-130			



QC Summary Data

Matador Production Company	Project Name:	Florence State 23 TB	Reported:
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/16/2023 12:51:21PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2323047-BLK1) Prepared: 06/08/23 Analyzed: 06/08/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.22		8.00		90.3	70-130			

LCS (2323047-BS2) Prepared: 06/08/23 Analyzed: 06/08/23

Gasoline Range Organics (C6-C10)	49.5	20.0	50.0		99.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.33		8.00		91.6	70-130			

Matrix Spike (2323047-MS2) Source: E306055-01 Prepared: 06/08/23 Analyzed: 06/08/23

Gasoline Range Organics (C6-C10)	50.8	20.0	50.0	ND	102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.4	70-130			

Matrix Spike Dup (2323047-MSD2) Source: E306055-01 Prepared: 06/08/23 Analyzed: 06/08/23

Gasoline Range Organics (C6-C10)	54.3	20.0	50.0	ND	109	70-130	6.68	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.9	70-130			



QC Summary Data

Matador Production Company	Project Name:	Florence State 23 TB	Reported:
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/16/2023 12:51:21PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2323043-BLK1)					Prepared: 06/08/23 Analyzed: 06/09/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	34.2		50.0		68.5	50-200			

LCS (2323043-BS1)					Prepared: 06/08/23 Analyzed: 06/09/23				
Diesel Range Organics (C10-C28)	239	25.0	250		95.8	38-132			
Surrogate: n-Nonane	32.8		50.0		65.6	50-200			

Matrix Spike (2323043-MS1)					Source: E306054-01		Prepared: 06/08/23 Analyzed: 06/09/23		
Diesel Range Organics (C10-C28)	238	25.0	250	ND	95.3	38-132			
Surrogate: n-Nonane	32.2		50.0		64.4	50-200			

Matrix Spike Dup (2323043-MSD1)					Source: E306054-01		Prepared: 06/08/23 Analyzed: 06/09/23		
Diesel Range Organics (C10-C28)	235	25.0	250	ND	93.9	38-132	1.53	20	
Surrogate: n-Nonane	31.5		50.0		62.9	50-200			



QC Summary Data

Matador Production Company	Project Name:	Florence State 23 TB	Reported:
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/16/2023 12:51:21PM

Anions by EPA 300.0/9056A

Analyst: BA

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

Blank (2324007-BLK1)					Prepared: 06/12/23 Analyzed: 06/14/23				
Chloride	ND	20.0							
LCS (2324007-BS1)					Prepared: 06/12/23 Analyzed: 06/14/23				
Chloride	263	20.0	250		105	90-110			
Matrix Spike (2324007-MS1)					Source: E306057-01		Prepared: 06/12/23 Analyzed: 06/14/23		
Chloride	1680	20.0	250	1390	114	80-120			
Matrix Spike Dup (2324007-MSD1)					Source: E306057-01		Prepared: 06/12/23 Analyzed: 06/14/23		
Chloride	1890	20.0	250	1390	198	80-120	11.8	20	M2

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



Definitions and Notes

Matador Production Company	Project Name:	Florence State 23 TB	
3122 National Parks HWY	Project Number:	23052-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/16/23 12:51

- M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

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

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



## Envirotech Analytical Laboratory

Printed: 6/8/2023 10:43:21AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Production Company	Date Received:	06/08/23 08:35	Work Order ID:	E306061
Phone:	(575) 988-0055	Date Logged In:	06/07/23 16:18	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	06/14/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? Yes

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.







Report to:

Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Production Company

Project Name: Florence State 23 TB

Work Order: E306062

Job Number: 23052-0001

Received: 6/8/2023

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
6/14/23

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 6/14/23



Ashley Giovengo  
3122 National Parks HWY  
Carlsbad, NM 88220

Project Name: Florence State 23 TB  
Workorder: E306062  
Date Received: 6/8/2023 8:35:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/8/2023 8:35:00AM, under the Project Name: Florence State 23 TB.

The analytical test results summarized in this report with the Project Name: Florence State 23 TB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

**Walter Hinchman**  
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Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

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Laboratory Administrator  
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**Alexa Michaels**  
Sample Custody Officer  
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[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

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**West Texas Midland/Odessa Area**  
**Rayny Hagan**  
Technical Representative  
Office: 505-421-LABS(5227)

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

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Sample Summary

Matador Production Company	Project Name:	Florence State 23 TB	Reported:
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/14/23 14:44

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH02 - 4'	E306062-01A	Soil	06/06/23	06/08/23	Glass Jar, 4 oz.



## Sample Data

Matador Production Company 3122 National Parks HWY Carlsbad NM, 88220	Project Name: Florence State 23 TB Project Number: 23052-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/14/2023 2:44:12PM
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### PH02 - 4'

### E306062-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
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<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2323046	
Benzene	ND	0.0250	1	06/08/23	06/09/23	
Ethylbenzene	ND	0.0250	1	06/08/23	06/09/23	
Toluene	ND	0.0250	1	06/08/23	06/09/23	
o-Xylene	ND	0.0250	1	06/08/23	06/09/23	
p,m-Xylene	ND	0.0500	1	06/08/23	06/09/23	
Total Xylenes	ND	0.0250	1	06/08/23	06/09/23	

<i>Surrogate: Bromofluorobenzene</i>	100 %	70-130	06/08/23	06/09/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	100 %	70-130	06/08/23	06/09/23	
<i>Surrogate: Toluene-d8</i>	102 %	70-130	06/08/23	06/09/23	

Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2323046
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/08/23	06/09/23
Surrogate: Bromofluorobenzene	100 %	70-130		06/08/23	06/09/23
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		06/08/23	06/09/23
Surrogate: Toluene-d8	102 %	70-130		06/08/23	06/09/23

Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2323043
Diesel Range Organics (C10-C28)	ND	25.0	1	06/08/23	06/10/23
Oil Range Organics (C28-C36)	ND	50.0	1	06/08/23	06/10/23
Surrogate: n-Nonane	67.5 %	50-200	06/08/23	06/10/23	

<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2324007	
Chloride	246	20.0	1	06/12/23	06/14/23	





QC Summary Data

Matador Production Company	Project Name:	Florence State 23 TB	Reported:  6/14/2023 2:44:12PM
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2323046-BLK1) Prepared: 06/08/23 Analyzed: 06/08/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		99.9	70-130			
Surrogate: Toluene-d8	0.516		0.500		103	70-130			

LCS (2323046-BS1) Prepared: 06/08/23 Analyzed: 06/08/23

Benzene	2.46	0.0250	2.50		98.3	70-130			
Ethylbenzene	2.43	0.0250	2.50		97.2	70-130			
Toluene	2.46	0.0250	2.50		98.3	70-130			
o-Xylene	2.51	0.0250	2.50		100	70-130			
p,m-Xylene	4.95	0.0500	5.00		99.0	70-130			
Total Xylenes	7.46	0.0250	7.50		99.5	70-130			
Surrogate: Bromofluorobenzene	0.489		0.500		97.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.7	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			

Matrix Spike (2323046-MS1) Source: E306053-07 Prepared: 06/08/23 Analyzed: 06/08/23

Benzene	2.53	0.0250	2.50	ND	101	48-131			
Ethylbenzene	2.52	0.0250	2.50	ND	101	45-135			
Toluene	2.55	0.0250	2.50	ND	102	48-130			
o-Xylene	2.58	0.0250	2.50	ND	103	43-135			
p,m-Xylene	5.10	0.0500	5.00	ND	102	43-135			
Total Xylenes	7.67	0.0250	7.50	ND	102	43-135			
Surrogate: Bromofluorobenzene	0.495		0.500		98.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.2	70-130			
Surrogate: Toluene-d8	0.511		0.500		102	70-130			

Matrix Spike Dup (2323046-MSD1) Source: E306053-07 Prepared: 06/08/23 Analyzed: 06/09/23

Benzene	2.39	0.0250	2.50	ND	95.6	48-131	5.67	23	
Ethylbenzene	2.39	0.0250	2.50	ND	95.6	45-135	5.25	27	
Toluene	2.42	0.0250	2.50	ND	96.8	48-130	5.27	24	
o-Xylene	2.41	0.0250	2.50	ND	96.3	43-135	6.80	27	
p,m-Xylene	4.81	0.0500	5.00	ND	96.2	43-135	5.82	27	
Total Xylenes	7.22	0.0250	7.50	ND	96.2	43-135	6.15	27	
Surrogate: Bromofluorobenzene	0.480		0.500		95.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.4	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			



QC Summary Data

Matador Production Company	Project Name:	Florence State 23 TB	Reported:  6/14/2023 2:44:12PM
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2323046-BLK1) Prepared: 06/08/23 Analyzed: 06/08/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		99.9	70-130			
Surrogate: Toluene-d8	0.516		0.500		103	70-130			

LCS (2323046-BS2) Prepared: 06/08/23 Analyzed: 06/08/23

Gasoline Range Organics (C6-C10)	62.1	20.0	50.0		124	70-130			
Surrogate: Bromofluorobenzene	0.506		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.8	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			

Matrix Spike (2323046-MS2) Source: E306053-07 Prepared: 06/08/23 Analyzed: 06/08/23

Gasoline Range Organics (C6-C10)	63.6	20.0	50.0	ND	127	70-130			
Surrogate: Bromofluorobenzene	0.507		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.3	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			

Matrix Spike Dup (2323046-MSD2) Source: E306053-07 Prepared: 06/08/23 Analyzed: 06/09/23

Gasoline Range Organics (C6-C10)	59.9	20.0	50.0	ND	120	70-130	6.08	20	
Surrogate: Bromofluorobenzene	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		96.9	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			



QC Summary Data

Matador Production Company	Project Name:	Florence State 23 TB	Reported:
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/14/2023 2:44:12PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2323043-BLK1)					Prepared: 06/08/23 Analyzed: 06/09/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	34.2		50.0		68.5	50-200			

LCS (2323043-BS1)					Prepared: 06/08/23 Analyzed: 06/09/23				
Diesel Range Organics (C10-C28)	239	25.0	250		95.8	38-132			
Surrogate: n-Nonane	32.8		50.0		65.6	50-200			

Matrix Spike (2323043-MS1)					Source: E306054-01		Prepared: 06/08/23 Analyzed: 06/09/23		
Diesel Range Organics (C10-C28)	238	25.0	250	ND	95.3	38-132			
Surrogate: n-Nonane	32.2		50.0		64.4	50-200			

Matrix Spike Dup (2323043-MSD1)					Source: E306054-01		Prepared: 06/08/23 Analyzed: 06/09/23		
Diesel Range Organics (C10-C28)	235	25.0	250	ND	93.9	38-132	1.53	20	
Surrogate: n-Nonane	31.5		50.0		62.9	50-200			



QC Summary Data

Matador Production Company	Project Name:	Florence State 23 TB	Reported:
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/14/2023 2:44:12PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2324007-BLK1)					Prepared: 06/12/23 Analyzed: 06/14/23				
Chloride	ND	20.0							
LCS (2324007-BS1)					Prepared: 06/12/23 Analyzed: 06/14/23				
Chloride	263	20.0	250		105	90-110			
Matrix Spike (2324007-MS1)					Source: E306057-01		Prepared: 06/12/23 Analyzed: 06/14/23		
Chloride	1680	20.0	250	1390	114	80-120			
Matrix Spike Dup (2324007-MSD1)					Source: E306057-01		Prepared: 06/12/23 Analyzed: 06/14/23		
Chloride	1890	20.0	250	1390	198	80-120	11.8	20	M2

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



Definitions and Notes

Matador Production Company	Project Name:	Florence State 23 TB	
3122 National Parks HWY	Project Number:	23052-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/14/23 14:44

- M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

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





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## Envirotech Analytical Laboratory

Printed: 6/8/2023 10:45:40AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Production Company	Date Received:	06/08/23 08:35	Work Order ID:	E306062
Phone:	(575) 988-0055	Date Logged In:	06/07/23 16:20	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	06/14/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? Yes

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:  
Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Production Company

Project Name: Florence State 23 TB

Work Order: E306063

Job Number: 23052-0001

Received: 6/8/2023

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
6/14/23

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 6/14/23



Ashley Giovengo  
3122 National Parks HWY  
Carlsbad, NM 88220

Project Name: Florence State 23 TB  
Workorder: E306063  
Date Received: 6/8/2023 8:35:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/8/2023 8:35:00AM, under the Project Name: Florence State 23 TB.

The analytical test results summarized in this report with the Project Name: Florence State 23 TB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

**Walter Hinchman**  
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[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

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**West Texas Midland/Odessa Area**  
**Rayny Hagan**  
Technical Representative  
Office: 505-421-LABS(5227)

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

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Sample Summary

Matador Production Company	Project Name:	Florence State 23 TB	Reported:
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/14/23 14:45

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH02 - 5'	E306063-01A	Soil	06/06/23	06/08/23	Glass Jar, 4 oz.



## Sample Data

Matador Production Company 3122 National Parks HWY Carlsbad NM, 88220	Project Name: Florence State 23 TB Project Number: 23052-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/14/2023 2:45:59PM
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## PH02 - 5'

## E306063-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2323046
Benzene	ND	0.0250	1	06/08/23	06/09/23	
Ethylbenzene	ND	0.0250	1	06/08/23	06/09/23	
Toluene	ND	0.0250	1	06/08/23	06/09/23	
o-Xylene	ND	0.0250	1	06/08/23	06/09/23	
p,m-Xylene	ND	0.0500	1	06/08/23	06/09/23	
Total Xylenes	ND	0.0250	1	06/08/23	06/09/23	
Surrogate: Bromofluorobenzene		101 %	70-130	06/08/23	06/09/23	
Surrogate: 1,2-Dichloroethane-d4		96.8 %	70-130	06/08/23	06/09/23	
Surrogate: Toluene-d8		103 %	70-130	06/08/23	06/09/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2323046
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/08/23	06/09/23	
Surrogate: Bromofluorobenzene		101 %	70-130	06/08/23	06/09/23	
Surrogate: 1,2-Dichloroethane-d4		96.8 %	70-130	06/08/23	06/09/23	
Surrogate: Toluene-d8		103 %	70-130	06/08/23	06/09/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2323043
Diesel Range Organics (C10-C28)	ND	25.0	1	06/08/23	06/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/08/23	06/10/23	
Surrogate: n-Nonane		63.7 %	50-200	06/08/23	06/10/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2324007
Chloride	345	20.0	1	06/12/23	06/14/23	





QC Summary Data

Matador Production Company	Project Name:	Florence State 23 TB	Reported:
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/14/2023 2:45:59PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

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

Blank (2323046-BLK1)

Prepared: 06/08/23 Analyzed: 06/08/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		99.9	70-130			
Surrogate: Toluene-d8	0.516		0.500		103	70-130			

LCS (2323046-BS1)

Prepared: 06/08/23 Analyzed: 06/08/23

Benzene	2.46	0.0250	2.50		98.3	70-130			
Ethylbenzene	2.43	0.0250	2.50		97.2	70-130			
Toluene	2.46	0.0250	2.50		98.3	70-130			
o-Xylene	2.51	0.0250	2.50		100	70-130			
p,m-Xylene	4.95	0.0500	5.00		99.0	70-130			
Total Xylenes	7.46	0.0250	7.50		99.5	70-130			
Surrogate: Bromofluorobenzene	0.489		0.500		97.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.7	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			

Matrix Spike (2323046-MS1)

Source: E306053-07 Prepared: 06/08/23 Analyzed: 06/08/23

Benzene	2.53	0.0250	2.50	ND	101	48-131			
Ethylbenzene	2.52	0.0250	2.50	ND	101	45-135			
Toluene	2.55	0.0250	2.50	ND	102	48-130			
o-Xylene	2.58	0.0250	2.50	ND	103	43-135			
p,m-Xylene	5.10	0.0500	5.00	ND	102	43-135			
Total Xylenes	7.67	0.0250	7.50	ND	102	43-135			
Surrogate: Bromofluorobenzene	0.495		0.500		98.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.2	70-130			
Surrogate: Toluene-d8	0.511		0.500		102	70-130			

Matrix Spike Dup (2323046-MSD1)

Source: E306053-07 Prepared: 06/08/23 Analyzed: 06/09/23

Benzene	2.39	0.0250	2.50	ND	95.6	48-131	5.67	23	
Ethylbenzene	2.39	0.0250	2.50	ND	95.6	45-135	5.25	27	
Toluene	2.42	0.0250	2.50	ND	96.8	48-130	5.27	24	
o-Xylene	2.41	0.0250	2.50	ND	96.3	43-135	6.80	27	
p,m-Xylene	4.81	0.0500	5.00	ND	96.2	43-135	5.82	27	
Total Xylenes	7.22	0.0250	7.50	ND	96.2	43-135	6.15	27	
Surrogate: Bromofluorobenzene	0.480		0.500		95.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.4	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			



QC Summary Data

Matador Production Company	Project Name:	Florence State 23 TB	Reported:  6/14/2023 2:45:59PM
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2323046-BLK1) Prepared: 06/08/23 Analyzed: 06/08/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		99.9	70-130			
Surrogate: Toluene-d8	0.516		0.500		103	70-130			

LCS (2323046-BS2) Prepared: 06/08/23 Analyzed: 06/08/23

Gasoline Range Organics (C6-C10)	62.1	20.0	50.0		124	70-130			
Surrogate: Bromofluorobenzene	0.506		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.8	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			

Matrix Spike (2323046-MS2) Source: E306053-07 Prepared: 06/08/23 Analyzed: 06/08/23

Gasoline Range Organics (C6-C10)	63.6	20.0	50.0	ND	127	70-130			
Surrogate: Bromofluorobenzene	0.507		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.3	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			

Matrix Spike Dup (2323046-MSD2) Source: E306053-07 Prepared: 06/08/23 Analyzed: 06/09/23

Gasoline Range Organics (C6-C10)	59.9	20.0	50.0	ND	120	70-130	6.08	20	
Surrogate: Bromofluorobenzene	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		96.9	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			



QC Summary Data

Matador Production Company	Project Name:	Florence State 23 TB	Reported:
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/14/2023 2:45:59PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

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

Blank (2323043-BLK1)					Prepared: 06/08/23 Analyzed: 06/09/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	34.2		50.0		68.5	50-200			

LCS (2323043-BS1)					Prepared: 06/08/23 Analyzed: 06/09/23				
Diesel Range Organics (C10-C28)	239	25.0	250		95.8	38-132			
Surrogate: n-Nonane	32.8		50.0		65.6	50-200			

Matrix Spike (2323043-MS1)					Source: E306054-01		Prepared: 06/08/23 Analyzed: 06/09/23		
Diesel Range Organics (C10-C28)	238	25.0	250	ND	95.3	38-132			
Surrogate: n-Nonane	32.2		50.0		64.4	50-200			

Matrix Spike Dup (2323043-MSD1)					Source: E306054-01		Prepared: 06/08/23 Analyzed: 06/09/23		
Diesel Range Organics (C10-C28)	235	25.0	250	ND	93.9	38-132	1.53	20	
Surrogate: n-Nonane	31.5		50.0		62.9	50-200			



QC Summary Data

Matador Production Company	Project Name:	Florence State 23 TB	Reported:
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/14/2023 2:45:59PM

Anions by EPA 300.0/9056A

Analyst: BA

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

Blank (2324007-BLK1)				Prepared: 06/12/23 Analyzed: 06/14/23					
Chloride	ND	20.0							
LCS (2324007-BS1)				Prepared: 06/12/23 Analyzed: 06/14/23					
Chloride	263	20.0	250		105	90-110			
Matrix Spike (2324007-MS1)				Source: E306057-01		Prepared: 06/12/23 Analyzed: 06/14/23			
Chloride	1680	20.0	250	1390	114	80-120			
Matrix Spike Dup (2324007-MSD1)				Source: E306057-01		Prepared: 06/12/23 Analyzed: 06/14/23			
Chloride	1890	20.0	250	1390	198	80-120	11.8	20	M2

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



Definitions and Notes

Matador Production Company	Project Name:	Florence State 23 TB	
3122 National Parks HWY	Project Number:	23052-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/14/23 14:45

- M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

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





**envirotech**



## Envirotech Analytical Laboratory

Printed: 6/8/2023 10:54:59AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Production Company	Date Received:	06/08/23 08:35	Work Order ID:	E306063
Phone:	(575) 988-0055	Date Logged In:	06/07/23 16:21	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	06/14/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? Yes

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:

Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Production Company

Project Name: Florence State 23 TB

Work Order: E306059

Job Number: 23052-0001

Received: 6/8/2023

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
6/14/23

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 6/14/23



Ashley Giovengo  
3122 National Parks HWY  
Carlsbad, NM 88220

Project Name: Florence State 23 TB  
Workorder: E306059  
Date Received: 6/8/2023 8:35:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/8/2023 8:35:00AM, under the Project Name: Florence State 23 TB.

The analytical test results summarized in this report with the Project Name: Florence State 23 TB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**  
**Lynn Jarboe**  
Technical Representative/Client Services  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**West Texas Midland/Odessa Area**  
**Rayny Hagan**  
Technical Representative  
Office: 505-421-LABS(5227)

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

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Sample Summary

Matador Production Company	Project Name:	Florence State 23 TB	Reported:
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/14/23 14:39

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH01 - 10.5'	E306059-01A	Soil	06/06/23	06/08/23	Glass Jar, 4 oz.



## Sample Data

Matador Production Company 3122 National Parks HWY Carlsbad NM, 88220	Project Name: Florence State 23 TB Project Number: 23052-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/14/2023 2:39:10PM
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### PH01 - 10.5'

#### E306059-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2323047	
Benzene	ND	0.0250	1	06/08/23	06/08/23	
Ethylbenzene	ND	0.0250	1	06/08/23	06/08/23	
Toluene	ND	0.0250	1	06/08/23	06/08/23	
o-Xylene	ND	0.0250	1	06/08/23	06/08/23	
p,m-Xylene	ND	0.0500	1	06/08/23	06/08/23	
Total Xylenes	ND	0.0250	1	06/08/23	06/08/23	
Surrogate: 4-Bromochlorobenzene-PID	97.0 %	70-130		06/08/23	06/08/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2323047	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/08/23	06/08/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.2 %	70-130		06/08/23	06/08/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2323043	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/08/23	06/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/08/23	06/10/23	
Surrogate: n-Nonane	68.5 %	50-200		06/08/23	06/10/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2324007	
Chloride	921	20.0	1	06/12/23	06/14/23	





QC Summary Data

Matador Production Company	Project Name:	Florence State 23 TB	Reported:
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/14/2023 2:39:10PM

Volatile Organics by EPA 8021B

Analyst: IY

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

Blank (2323047-BLK1) Prepared: 06/08/23 Analyzed: 06/08/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.87		8.00		98.4	70-130			

LCS (2323047-BS1) Prepared: 06/08/23 Analyzed: 06/08/23

Benzene	4.42	0.0250	5.00		88.5	70-130			
Ethylbenzene	4.67	0.0250	5.00		93.4	70-130			
Toluene	4.80	0.0250	5.00		95.9	70-130			
o-Xylene	4.93	0.0250	5.00		98.5	70-130			
p,m-Xylene	9.66	0.0500	10.0		96.6	70-130			
Total Xylenes	14.6	0.0250	15.0		97.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.94		8.00		99.3	70-130			

Matrix Spike (2323047-MS1) Source: E306055-01 Prepared: 06/08/23 Analyzed: 06/08/23

Benzene	4.48	0.0250	5.00	ND	89.5	54-133			
Ethylbenzene	4.75	0.0250	5.00	ND	95.1	61-133			
Toluene	4.87	0.0250	5.00	ND	97.4	61-130			
o-Xylene	5.02	0.0250	5.00	ND	100	63-131			
p,m-Xylene	9.82	0.0500	10.0	ND	98.2	63-131			
Total Xylenes	14.8	0.0250	15.0	ND	98.9	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.96		8.00		99.5	70-130			

Matrix Spike Dup (2323047-MSD1) Source: E306055-01 Prepared: 06/08/23 Analyzed: 06/08/23

Benzene	4.41	0.0250	5.00	ND	88.1	54-133	1.57	20	
Ethylbenzene	4.70	0.0250	5.00	ND	94.0	61-133	1.17	20	
Toluene	4.82	0.0250	5.00	ND	96.3	61-130	1.09	20	
o-Xylene	4.96	0.0250	5.00	ND	99.1	63-131	1.25	20	
p,m-Xylene	9.72	0.0500	10.0	ND	97.2	63-131	0.978	20	
Total Xylenes	14.7	0.0250	15.0	ND	97.9	63-131	1.07	20	
Surrogate: 4-Bromochlorobenzene-PID	7.98		8.00		99.8	70-130			



QC Summary Data

Matador Production Company	Project Name:	Florence State 23 TB	Reported:
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/14/2023 2:39:10PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2323047-BLK1) Prepared: 06/08/23 Analyzed: 06/08/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.22		8.00		90.3	70-130			

LCS (2323047-BS2) Prepared: 06/08/23 Analyzed: 06/08/23

Gasoline Range Organics (C6-C10)	49.5	20.0	50.0		99.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.33		8.00		91.6	70-130			

Matrix Spike (2323047-MS2) Source: E306055-01 Prepared: 06/08/23 Analyzed: 06/08/23

Gasoline Range Organics (C6-C10)	50.8	20.0	50.0	ND	102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.4	70-130			

Matrix Spike Dup (2323047-MSD2) Source: E306055-01 Prepared: 06/08/23 Analyzed: 06/08/23

Gasoline Range Organics (C6-C10)	54.3	20.0	50.0	ND	109	70-130	6.68	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.9	70-130			



QC Summary Data

Matador Production Company	Project Name:	Florence State 23 TB	Reported:
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/14/2023 2:39:10PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2323043-BLK1)					Prepared: 06/08/23 Analyzed: 06/09/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	34.2		50.0		68.5	50-200			

LCS (2323043-BS1)					Prepared: 06/08/23 Analyzed: 06/09/23				
Diesel Range Organics (C10-C28)	239	25.0	250		95.8	38-132			
Surrogate: n-Nonane	32.8		50.0		65.6	50-200			

Matrix Spike (2323043-MS1)					Source: E306054-01		Prepared: 06/08/23 Analyzed: 06/09/23		
Diesel Range Organics (C10-C28)	238	25.0	250	ND	95.3	38-132			
Surrogate: n-Nonane	32.2		50.0		64.4	50-200			

Matrix Spike Dup (2323043-MSD1)					Source: E306054-01		Prepared: 06/08/23 Analyzed: 06/09/23		
Diesel Range Organics (C10-C28)	235	25.0	250	ND	93.9	38-132	1.53	20	
Surrogate: n-Nonane	31.5		50.0		62.9	50-200			



QC Summary Data

Matador Production Company	Project Name:	Florence State 23 TB	Reported:
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/14/2023 2:39:10PM

Anions by EPA 300.0/9056A

Analyst: BA

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

Blank (2324007-BLK1)					Prepared: 06/12/23 Analyzed: 06/14/23				
Chloride	ND	20.0							
LCS (2324007-BS1)					Prepared: 06/12/23 Analyzed: 06/14/23				
Chloride	263	20.0	250		105	90-110			
Matrix Spike (2324007-MS1)					Source: E306057-01		Prepared: 06/12/23 Analyzed: 06/14/23		
Chloride	1680	20.0	250	1390	114	80-120			
Matrix Spike Dup (2324007-MSD1)					Source: E306057-01		Prepared: 06/12/23 Analyzed: 06/14/23		
Chloride	1890	20.0	250	1390	198	80-120	11.8	20	M2

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



Definitions and Notes

Matador Production Company	Project Name:	Florence State 23 TB	
3122 National Parks HWY	Project Number:	23052-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/14/23 14:39

- M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

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



Page 11 of 12



## Envirotech Analytical Laboratory

Printed: 6/8/2023 10:37:57AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Production Company	Date Received:	06/08/23 08:35	Work Order ID:	E306059
Phone:	(575) 988-0055	Date Logged In:	06/07/23 16:12	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	06/14/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? Yes

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:

Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Production Company

Project Name: Florence State 23 TB

Work Order: E306060

Job Number: 23052-0001

Received: 6/8/2023

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
6/14/23

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 6/14/23



Ashley Giovengo  
3122 National Parks HWY  
Carlsbad, NM 88220

Project Name: Florence State 23 TB  
Workorder: E306060  
Date Received: 6/8/2023 8:35:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/8/2023 8:35:00AM, under the Project Name: Florence State 23 TB.

The analytical test results summarized in this report with the Project Name: Florence State 23 TB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
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**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**  
**Lynn Jarboe**  
Technical Representative/Client Services  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**West Texas Midland/Odessa Area**  
**Rayny Hagan**  
Technical Representative  
Office: 505-421-LABS(5227)

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

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Sample Summary

Matador Production Company	Project Name:	Florence State 23 TB	Reported:
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/14/23 14:40

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH01 - 12.5'	E306060-01A	Soil	06/06/23	06/08/23	Glass Jar, 4 oz.



Sample Data

Matador Production Company 3122 National Parks HWY Carlsbad NM, 88220	Project Name: Florence State 23 TB Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 6/14/2023 2:40:43PM
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PH01 - 12.5'  
E306060-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2323046	
Benzene	ND	0.0250	1	06/08/23	06/09/23	
Ethylbenzene	ND	0.0250	1	06/08/23	06/09/23	
Toluene	ND	0.0250	1	06/08/23	06/09/23	
o-Xylene	ND	0.0250	1	06/08/23	06/09/23	
p,m-Xylene	ND	0.0500	1	06/08/23	06/09/23	
Total Xylenes	ND	0.0250	1	06/08/23	06/09/23	
Surrogate: Bromofluorobenzene	102 %	70-130		06/08/23	06/09/23	
Surrogate: 1,2-Dichloroethane-d4	96.1 %	70-130		06/08/23	06/09/23	
Surrogate: Toluene-d8	104 %	70-130		06/08/23	06/09/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2323046	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/08/23	06/09/23	
Surrogate: Bromofluorobenzene	102 %	70-130		06/08/23	06/09/23	
Surrogate: 1,2-Dichloroethane-d4	96.1 %	70-130		06/08/23	06/09/23	
Surrogate: Toluene-d8	104 %	70-130		06/08/23	06/09/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2323043	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/08/23	06/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/08/23	06/10/23	
Surrogate: n-Nonane	67.3 %	50-200		06/08/23	06/10/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2324007	
Chloride	720	20.0	1	06/12/23	06/14/23	





QC Summary Data

Matador Production Company	Project Name:	Florence State 23 TB	Reported:  6/14/2023 2:40:43PM
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2323046-BLK1) Prepared: 06/08/23 Analyzed: 06/08/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		99.9	70-130			
Surrogate: Toluene-d8	0.516		0.500		103	70-130			

LCS (2323046-BS1) Prepared: 06/08/23 Analyzed: 06/08/23

Benzene	2.46	0.0250	2.50		98.3	70-130			
Ethylbenzene	2.43	0.0250	2.50		97.2	70-130			
Toluene	2.46	0.0250	2.50		98.3	70-130			
o-Xylene	2.51	0.0250	2.50		100	70-130			
p,m-Xylene	4.95	0.0500	5.00		99.0	70-130			
Total Xylenes	7.46	0.0250	7.50		99.5	70-130			
Surrogate: Bromofluorobenzene	0.489		0.500		97.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.7	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			

Matrix Spike (2323046-MS1) Source: E306053-07 Prepared: 06/08/23 Analyzed: 06/08/23

Benzene	2.53	0.0250	2.50	ND	101	48-131			
Ethylbenzene	2.52	0.0250	2.50	ND	101	45-135			
Toluene	2.55	0.0250	2.50	ND	102	48-130			
o-Xylene	2.58	0.0250	2.50	ND	103	43-135			
p,m-Xylene	5.10	0.0500	5.00	ND	102	43-135			
Total Xylenes	7.67	0.0250	7.50	ND	102	43-135			
Surrogate: Bromofluorobenzene	0.495		0.500		98.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.2	70-130			
Surrogate: Toluene-d8	0.511		0.500		102	70-130			

Matrix Spike Dup (2323046-MSD1) Source: E306053-07 Prepared: 06/08/23 Analyzed: 06/09/23

Benzene	2.39	0.0250	2.50	ND	95.6	48-131	5.67	23	
Ethylbenzene	2.39	0.0250	2.50	ND	95.6	45-135	5.25	27	
Toluene	2.42	0.0250	2.50	ND	96.8	48-130	5.27	24	
o-Xylene	2.41	0.0250	2.50	ND	96.3	43-135	6.80	27	
p,m-Xylene	4.81	0.0500	5.00	ND	96.2	43-135	5.82	27	
Total Xylenes	7.22	0.0250	7.50	ND	96.2	43-135	6.15	27	
Surrogate: Bromofluorobenzene	0.480		0.500		95.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.4	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			



QC Summary Data

Matador Production Company	Project Name:	Florence State 23 TB	Reported:  6/14/2023 2:40:43PM
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2323046-BLK1) Prepared: 06/08/23 Analyzed: 06/08/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		99.9	70-130			
Surrogate: Toluene-d8	0.516		0.500		103	70-130			

LCS (2323046-BS2) Prepared: 06/08/23 Analyzed: 06/08/23

Gasoline Range Organics (C6-C10)	62.1	20.0	50.0		124	70-130			
Surrogate: Bromofluorobenzene	0.506		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.8	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			

Matrix Spike (2323046-MS2) Source: E306053-07 Prepared: 06/08/23 Analyzed: 06/08/23

Gasoline Range Organics (C6-C10)	63.6	20.0	50.0	ND	127	70-130			
Surrogate: Bromofluorobenzene	0.507		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.3	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			

Matrix Spike Dup (2323046-MSD2) Source: E306053-07 Prepared: 06/08/23 Analyzed: 06/09/23

Gasoline Range Organics (C6-C10)	59.9	20.0	50.0	ND	120	70-130	6.08	20	
Surrogate: Bromofluorobenzene	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		96.9	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			



QC Summary Data

Matador Production Company	Project Name:	Florence State 23 TB	Reported:
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/14/2023 2:40:43PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2323043-BLK1)					Prepared: 06/08/23 Analyzed: 06/09/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	34.2		50.0		68.5	50-200			

LCS (2323043-BS1)					Prepared: 06/08/23 Analyzed: 06/09/23				
Diesel Range Organics (C10-C28)	239	25.0	250		95.8	38-132			
Surrogate: n-Nonane	32.8		50.0		65.6	50-200			

Matrix Spike (2323043-MS1)					Source: E306054-01		Prepared: 06/08/23 Analyzed: 06/09/23		
Diesel Range Organics (C10-C28)	238	25.0	250	ND	95.3	38-132			
Surrogate: n-Nonane	32.2		50.0		64.4	50-200			

Matrix Spike Dup (2323043-MSD1)					Source: E306054-01		Prepared: 06/08/23 Analyzed: 06/09/23		
Diesel Range Organics (C10-C28)	235	25.0	250	ND	93.9	38-132	1.53	20	
Surrogate: n-Nonane	31.5		50.0		62.9	50-200			



QC Summary Data

Matador Production Company	Project Name:	Florence State 23 TB	Reported:
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/14/2023 2:40:43PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2324007-BLK1)					Prepared: 06/12/23 Analyzed: 06/14/23				
Chloride	ND	20.0							
LCS (2324007-BS1)					Prepared: 06/12/23 Analyzed: 06/14/23				
Chloride	263	20.0	250		105	90-110			
Matrix Spike (2324007-MS1)					Source: E306057-01		Prepared: 06/12/23 Analyzed: 06/14/23		
Chloride	1680	20.0	250	1390	114	80-120			
Matrix Spike Dup (2324007-MSD1)					Source: E306057-01		Prepared: 06/12/23 Analyzed: 06/14/23		
Chloride	1890	20.0	250	1390	198	80-120	11.8	20	M2

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



Definitions and Notes

Matador Production Company	Project Name:	Florence State 23 TB	
3122 National Parks HWY	Project Number:	23052-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/14/23 14:40

- M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

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



envirotech



## Envirotech Analytical Laboratory

Printed: 6/8/2023 10:40:44AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Production Company	Date Received:	06/08/23 08:35	Work Order ID:	E306060
Phone:	(575) 988-0055	Date Logged In:	06/07/23 16:17	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	06/14/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? Yes

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.



## APPENDIX F

### Email Correspondence

---

**From:** [Velez, Nelson, EMNRD](#)  
**To:** [Ashley Giovengo](#)  
**Cc:** [clinton.talley@matadorresources.com](#); [Cole Burton](#); [Chad Hamilton](#); [Bratcher, Michael, EMNRD](#)  
**Subject:** Re: [EXTERNAL] Matador - Extension Request - Florence State 23 TB -Incident Number nAPP2313769629  
**Date:** Monday, November 13, 2023 10:33:39 AM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[image004.png](#)  
[image005.png](#)  
[Outlook-djahwg4w.png](#)

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[ \*\*EXTERNAL EMAIL\*\* ]

Good morning Ashley,

Your 90-day time extension is approved. Remediation Due date has been updated to January 12, 2024.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

Regards,

**Nelson Velez** • Environmental Specialist - Adv  
Environmental Bureau | EMNRD - Oil Conservation Division  
1000 Rio Brazos Road | Aztec, NM 87410  
(505) 469-6146 | [nelson.velez@emnrd.nm.gov](mailto:nelson.velez@emnrd.nm.gov)  
<http://www.emnrd.state.nm.us/OCD/>



---

**From:** Ashley Giovengo <[agiovengo@ensolum.com](mailto:agiovengo@ensolum.com)>  
**Sent:** Monday, November 13, 2023 10:13 AM  
**To:** Velez, Nelson, EMNRD <[Nelson.Velez@emnrd.nm.gov](mailto:Nelson.Velez@emnrd.nm.gov)>  
**Cc:** [clinton.talley@matadorresources.com](mailto:clinton.talley@matadorresources.com) <[clinton.talley@matadorresources.com](mailto:clinton.talley@matadorresources.com)>; [Cole Burton](mailto:Cole.Burton@ensolum.com) <[Cole.Burton@ensolum.com](mailto:Cole.Burton@ensolum.com)>; [Chad Hamilton](mailto:Chad.Hamilton@ensolum.com) <[Chad.Hamilton@ensolum.com](mailto:Chad.Hamilton@ensolum.com)>; [Bratcher, Michael, EMNRD](mailto:Bratcher.Michael@emnrd.nm.gov) <[mike.bratcher@emnrd.nm.gov](mailto:mike.bratcher@emnrd.nm.gov)>  
**Subject:** RE: [EXTERNAL] Matador - Extension Request - Florence State 23 TB -Incident Number nAPP2313769629

Hello,

Matador is requesting an extension for the current deadline of November 13, 2023, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the Florence State 23 TB (Incident Number nAPP2313769629). The release occurred on May 17, 2023, and delineation, excavation and confirmation sampling has been completed at the site. Ensolum personnel completed two potholes and two boreholes in order to establish vertical delineation at the site, however one borehole is not in compliance with the strictest Closure Criteria per NMOCD Table I. Ensolum personnel will need to return to the site and complete vertical delineation in Pothole (PH01) to the strictest closure criteria with either a trackhoe or with a drill rig equipped with an auger and split spoon. Matador will submit a remediation work plan or closure report, following the additional delineation efforts and discrete soil sampling. Matador respectfully requests a 60-day extension until January 12, 2023.

Thanks,



**Ashley Giovengo**

Senior Engineer

575-988-0055

Ensolum, LLC

in f 

---

**From:** Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>

**Sent:** Friday, July 28, 2023 12:51 PM

**To:** Ashley Giovengo <agiovengo@ensolum.com>

**Cc:** clinton.talley@matadorresources.com; Cole Burton <cburton@ensolum.com>; Chad Hamilton <chamilton@ensolum.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

**Subject:** Re: [EXTERNAL] Matador - Extension Request - Florence State 23 TB -Incident Number nAPP2313769629

You don't often get email from [nelson.velez@emnrd.nm.gov](mailto:nelson.velez@emnrd.nm.gov). [Learn why this is important](#)

[ \*\*EXTERNAL EMAIL\*\* ]

Good afternoon Ashley,

Your 90-day time extension is approved. Remediation Due date has been updated to November 13, 2023.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

Regards,

**Nelson Velez** • Environmental Specialist - Adv  
Environmental Bureau | EMNRD - Oil Conservation Division  
1000 Rio Brazos Road | Aztec, NM 87410  
(505) 469-6146 | [nelson.velez@emnrd.nm.gov](mailto:nelson.velez@emnrd.nm.gov)

<http://www.emnrd.state.nm.us/OCD/>



---

**From:** Wells, Shelly, EMNRD <[Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)>  
**Sent:** Friday, July 28, 2023 10:33 AM  
**To:** Velez, Nelson, EMNRD <[Nelson.Velez@emnrd.nm.gov](mailto:Nelson.Velez@emnrd.nm.gov)>  
**Cc:** Bratcher, Michael, EMNRD <[mike.bratcher@emnrd.nm.gov](mailto:mike.bratcher@emnrd.nm.gov)>  
**Subject:** FW: [EXTERNAL] Matador - Extension Request - Florence State 23 TB -Incident Number nAPP2313769629

---

**From:** Ashley Giovengo <[agiovengo@ensolum.com](mailto:agiovengo@ensolum.com)>  
**Sent:** Friday, July 28, 2023 9:46 AM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>  
**Cc:** [clinton.talley@matadorresources.com](mailto:clinton.talley@matadorresources.com); Cole Burton <[cburton@ensolum.com](mailto:cburton@ensolum.com)>; Chad Hamilton <[chamilton@ensolum.com](mailto:chamilton@ensolum.com)>  
**Subject:** [EXTERNAL] Matador - Extension Request - Florence State 23 TB -Incident Number nAPP2313769629

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

All,

Matador is requesting an extension for the current deadline of August 15, 2023, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the Florence State 23 TB (Incident Number nAPP2313769629). The release occurred on May 17, 2023, and initial site assessment and delineation activities have been completed. In order to determine depth to water at the Site, Matador has contracted Atkins Engineering Associates to complete a depth to water boring on September 07, 2023. The well log and file will be submitted to the New Mexico Office of the State Engineer (NMOSE) and included in the remediation work plan or closure report. Matador will submit a remediation work plan or closure report, following remediation efforts and confirmation sampling. Matador respectfully requests an extension until November 13, 2023.

Thanks,



**Ashley Giovengo**

Senior Engineer

575-988-0055

Ensolum, LLC

in f

**From:** [Rodgers, Scott, EMNRD](#)  
**To:** [Cole Burton](#); [Ashley Giovengo](#); [spills@slo.state.nm.us](mailto:spills@slo.state.nm.us); [clinton.talley@matadorresources.com](mailto:clinton.talley@matadorresources.com); [Velez, Nelson, EMNRD](#); [Bratcher, Michael, EMNRD](#)  
**Cc:** [Chad Hamilton](#); [Ethan Haft](#)  
**Subject:** RE: [EXTERNAL] 48-hour Confirmation Sampling Notification - Matador Production Company - Florence State 23 TB - Incident Number nAPP2313769629  
**Date:** Wednesday, October 25, 2023 9:49:00 AM  
**Attachments:** [image006.png](#)  
[image007.png](#)  
[image008.png](#)  
[image009.png](#)

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[ \*\*EXTERNAL EMAIL\*\* ]

The OCD has received your notification. 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.

**Scott Rodgers • Environmental Specialist**  
Environmental Bureau  
EMNRD - Oil Conservation Division  
8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113  
505.469.1830 | [scott.rodgers@emnrd.nm.gov](mailto:scott.rodgers@emnrd.nm.gov)  
<http://www.emnrd.nm.gov/oecd>



---

**From:** Cole Burton <[cburton@ensolum.com](mailto:cburton@ensolum.com)>  
**Sent:** Wednesday, October 25, 2023 9:05 AM  
**To:** Rodgers, Scott, EMNRD <[Scott.Rodgers@emnrd.nm.gov](mailto:Scott.Rodgers@emnrd.nm.gov)>; Ashley Giovengo <[agiovengo@ensolum.com](mailto:agiovengo@ensolum.com)>; [spills@slo.state.nm.us](mailto:spills@slo.state.nm.us); [clinton.talley@matadorresources.com](mailto:clinton.talley@matadorresources.com); Velez, Nelson, EMNRD <[Nelson.Velez@emnrd.nm.gov](mailto:Nelson.Velez@emnrd.nm.gov)>; Bratcher, Michael, EMNRD <[mike.bratcher@emnrd.nm.gov](mailto:mike.bratcher@emnrd.nm.gov)>  
**Cc:** Chad Hamilton <[chamilton@ensolum.com](mailto:chamilton@ensolum.com)>; Ethan Haft <[ehaft@ensolum.com](mailto:ehaft@ensolum.com)>  
**Subject:** RE: [EXTERNAL] 48-hour Confirmation Sampling Notification - Matador Production Company - Florence State 23 TB - Incident Number nAPP2313769629

Hello,

Due to unforeseen heavy rain in the area we need to extend the sampling event at the Florence State 23 TB into Thursday, October 26, 2023, and Friday October 27, 2023.

Thanks,

| **Cole Burton**





Project Manager  
575-706-5056  
**Ensolum, LLC**  
in f

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**From:** Rodgers, Scott, EMNRD <[Scott.Rodgers@emnrd.nm.gov](mailto:Scott.Rodgers@emnrd.nm.gov)>  
**Sent:** Friday, October 20, 2023 10:12 AM  
**To:** Ashley Giovengo <[agiovengo@ensolum.com](mailto:agiovengo@ensolum.com)>; [spills@slo.state.nm.us](mailto:spills@slo.state.nm.us);  
[clinton.talley@matadorresources.com](mailto:clinton.talley@matadorresources.com); Velez, Nelson, EMNRD <[Nelson.Velez@emnrd.nm.gov](mailto:Nelson.Velez@emnrd.nm.gov)>;  
Bratcher, Michael, EMNRD <[mike.bratcher@emnrd.nm.gov](mailto:mike.bratcher@emnrd.nm.gov)>  
**Cc:** Cole Burton <[cburton@ensolum.com](mailto:cburton@ensolum.com)>; Chad Hamilton <[chamilton@ensolum.com](mailto:chamilton@ensolum.com)>; Ethan Haft  
<[ehaft@ensolum.com](mailto:ehaft@ensolum.com)>  
**Subject:** RE: [EXTERNAL] 48-hour Confirmation Sampling Notification - Matador Production Company  
- Florence State 23 TB - Incident Number nAPP2313769629

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<http://www.emnrd.nm.gov/oed>



---

**From:** Ashley Giovengo <[agiovengo@ensolum.com](mailto:agiovengo@ensolum.com)>  
**Sent:** Friday, October 20, 2023 10:01 AM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>; [spills@slo.state.nm.us](mailto:spills@slo.state.nm.us);  
[clinton.talley@matadorresources.com](mailto:clinton.talley@matadorresources.com)  
**Cc:** Cole Burton <[cburton@ensolum.com](mailto:cburton@ensolum.com)>; Chad Hamilton <[chamilton@ensolum.com](mailto:chamilton@ensolum.com)>; Ethan Haft  
<[ehaft@ensolum.com](mailto:ehaft@ensolum.com)>  
**Subject:** [EXTERNAL] 48-hour Confirmation Sampling Notification - Matador Production Company -  
Florence State 23 TB - Incident Number nAPP2313769629

---

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

Hello,

We intend to collect confirmation samples at Matador Production Company's, Florence State 23 TB site (Incident Number *nAPP2313769629*) beginning on Tuesday, October 24, 2023, at 09:00 am MST through Wednesday, October 25, 2023.

Please let us know if you plan to be onsite to oversee the sampling.

Thanks,



**Ashley Giovengo**

Senior Engineer

575-988-0055

Ensolum, LLC

in f 

**From:** [Rodgers, Scott, EMNRD](#)  
**To:** [Ashley Giovengo](#); [spills@slo.state.nm.us](mailto:spills@slo.state.nm.us); [clinton.talley@matadorresources.com](mailto:clinton.talley@matadorresources.com); [Velez, Nelson, EMNRD](#); [Bratcher, Michael, EMNRD](#)  
**Cc:** [Cole Burton](#); [Chad Hamilton](#); [Ethan Haft](#)  
**Subject:** RE: [EXTERNAL] 48-hour Confirmation Sampling Notification - Matador Production Company - Florence State 23 TB - Incident Number nAPP2313769629  
**Date:** Friday, October 20, 2023 10:11:54 AM  
**Attachments:** [image006.png](#)  
[image007.png](#)  
[image008.png](#)  
[image009.png](#)

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**Sent:** Friday, October 20, 2023 10:01 AM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>; [spills@slo.state.nm.us](mailto:spills@slo.state.nm.us); [clinton.talley@matadorresources.com](mailto:clinton.talley@matadorresources.com)  
**Cc:** Cole Burton <[cburton@ensolum.com](mailto:cburton@ensolum.com)>; Chad Hamilton <[chamilton@ensolum.com](mailto:chamilton@ensolum.com)>; Ethan Haft <[ehaft@ensolum.com](mailto:ehaft@ensolum.com)>  
**Subject:** [EXTERNAL] 48-hour Confirmation Sampling Notification - Matador Production Company - Florence State 23 TB - Incident Number nAPP2313769629

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Thanks,



**Ashley Giovengo**

Senior Engineer

575-988-0055

**Ensolum, LLC**

in f 

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**District IV**  
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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

QUESTIONS  
  
Action 306063

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 306063
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2313769629
Incident Name	NAPP2313769629 FLORENCE STATE 23 TB @ 0
Incident Type	Oil Release
Incident Status	Deferral Request Received
Incident Facility	[fAPP2202572162] Florence State Facility Tank Battery

Location of Release Source	
Please answer all the questions in this group.	
Site Name	FLORENCE STATE 23 TB
Date Release Discovered	05/17/2023
Surface Owner	State

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Equipment Failure   Separator   Crude Oil   Released: 30 BBL   Recovered: 0 BBL   Lost: 30 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Separator   Produced Water   Released: 10 BBL   Recovered: 0 BBL   Lost: 10 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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**Santa Fe, NM 87505**

QUESTIONS, Page 2

Action 306063

**QUESTIONS (continued)**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID:
	228937
	Action Number:
	306063
Action Type:	
[C-141] Deferral Request C-141 (C-141-v-Deferral)	

**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 Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume that: (a) results in a fire or is the result of a fire.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

**Initial Response**

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

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

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

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

I hereby agree and sign off to the above statement	Name: Clint Talley Title: Assistant Foreman Email: clinton.talley@matadorresources.com Date: 01/22/2024
--	--



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

QUESTIONS, Page 3

Action 306063

**QUESTIONS (continued)**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID:
	228937
	Action Number: 306063
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS****Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

**Remediation Plan**

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

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

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

Chloride	(EPA 300.0 or SM4500 Cl B)	3870
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	723
GRO+DRO	(EPA SW-846 Method 8015M)	406
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	10/24/2023
On what date will (or did) the final sampling or liner inspection occur	12/20/2023
On what date will (or was) the remediation complete(d)	12/20/2023
What is the estimated surface area (in square feet) that will be reclaimed	5155
What is the estimated volume (in cubic yards) that will be reclaimed	191
What is the estimated surface area (in square feet) that will be remediated	4736
What is the estimated volume (in cubic yards) that will be remediated	140

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

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

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

QUESTIONS, Page 4

Action 306063

**QUESTIONS (continued)**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID:	228937
	Action Number:	306063
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

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

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

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

(Select all answers below that apply.)

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

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

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

I hereby agree and sign off to the above statement	Name: Clint Talley Title: Assistant Foreman Email: clinton.talley@matadorresources.com Date: 01/22/2024
--	--

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

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QUESTIONS, Page 5

Action 306063

**QUESTIONS (continued)**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID:	228937
	Action Number:	306063
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS****Deferral Requests Only**

*Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.*

Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	The deferral area is contained beneath production piping and produced oil and water separators. To fully remediate this site most production piping would need to be removed as well as removing the separators.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	5155
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	191
<i>Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.</i>	
Enter the facility ID (F#) on which this deferral should be granted	Florence State Facility Tank Battery [fAPP2202572162]
Enter the well API (30-) on which this deferral should be granted	Not answered.
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
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I hereby agree and sign off to the above statement	Name: Clint Talley Title: Assistant Foreman Email: clinton.talley@matadorresources.com Date: 01/22/2024

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QUESTIONS, Page 6  
  
Action 306063

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID:	228937
	Action Number:	306063
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

**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 306063

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 306063
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Deferral is approved. Remediation Due date will be left open until the site has been plugged and abandoned or a major facility deconstruction takes place.	3/27/2024