

September 16, 2025

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

Re: Remediation Work Plan

Marbob State #001

Incident Number: nAB1821141249

Eddy County, New Mexico

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Matador Production Company (Matador), has prepared this Remediation Work Plan (RWP) to document soil sampling and excavation activities completed at the Marbob State #001 (Site). The purpose of the soil sampling and excavation activities was to address impacted and waste-containing soil resulting from a produced water release associated with Incident Number nAB1821141249. Matador is submitting this RWP, describing analytical results from soil sampling activities following a Remediation Closure Report authored by Souder, Miller and Associates (SMA), geophysical results following a Karst Survey, and depth to water data based on a recent soil boring completed at the Site. This RWP will address deficiencies in the original Remediation Closure Report and proposes to address the sensitive Site receptors (high karst and no depth to water within a half-mile radius of the Site) of the subject matter release prior to excavation activities and submitting a Closure Request.

BACKGROUND

The Site is located in Unit A, Section 19, Township 19 South, Range 29 East, in Eddy County, New Mexico (32.6518211°, -104.1077576°) 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 July 01, 2018, an equipment failure resulted in the release of approximately 326 barrels (bbls) of produced water into a lined secondary containment and onto the pad surface; all 326 bbls of produced water were unrecoverable. Produced water overfilled the secondary containment on-pad and impacted approximately 3,850 square feet off-pad. Matador reported the release to the New Mexico Oil Conservation Division (NMOCD) on July 02, 2018, and submitted a Release Notification Form C-141 (Form C-141) on July 23, 2018. The release was assigned Incident Number NAB1821141249.

SMA was contracted by Matador to complete delineation soil sampling activities and to oversee the remediation of the subject matter release. SMA submitted a *Remediation Closure Report* to the NMOCD on December 07, 2022, however the report was denied on March 16, 2023, for the following reasons:

The Closure Report is denied. There is a specific process to have BLM change a karst designation. The OCD follows the BLM, when it comes to karst. The BLM puts together and updates the karst maps. If a site shows as high karst under the current map, that is what we go off. You would need to send the karst study to the BLM and try to get high karst potential downgraded to medium in this area. If they do make changes to the map, let us know and we

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will honor their decision. Until that time, the incident remains in high karst and needs to be remediated to the strictest closure criteria. Confirmation samples should be collected every 200 ft2. All samples must be analyzed for the constituents listed in Table I of 19.15.29.12 NMAC. All sample depths need to be included on table. Include pictures of excavation before backfilling. A deferral can only be granted once the release is fully delineated.

SMA oversaw the excavation of the off-pad release extent in accordance with the reclamation requirement for the top 4 feet of soils. Remediation of the impacted areas on-pad was completed to the Maximum Extent Practicable (MEP) prior to backfill. Per the denied *Remediation Closure Report*, SMA did not conduct confirmation floor or confirmation sidewall soil sampling at a frequency of every 200 square feet from the floor of the excavation and every 200 square feet from the sidewalls of the excavation due to the release predating the enactment of 19.15.29.5 NMAC on August 14, 2018.

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, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Site Assessment/Characterization is described below.

The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well CP-2081 POD1, located on the southwest corner of the Site; this soil boring was advanced to determine depth to water at the Site. The soil boring had a reported depth to groundwater greater than 55 below ground surface (bgs) (measured on August 15, 2025) and a total depth of 55 feet bgs. There are no regional or Site-specific hydrogeological conditions, such as shallow surface water, known karst features, wetlands, or vegetation to suggest the Site is conducive to shallower groundwater. All wells used for depth to groundwater determination are presented on Figure 1; the referenced well record is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is an intermittent dry wash, located approximately 0.88 miles east 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 potentially underlain by unstable geology (high potential karst designation area). Site receptors are identified on Figure 1.

On July 21, 2025, Ensolum commissioned a geophysical karst survey using a Bureau of Land Management (BLM) approved third-party cave/karst contractor. The karst survey was conducted by Southwest Geophysical Consulting, LLC, under the supervision of Dave Decker. The findings of the report indicated there was no evidence of karst features within 200 feet of the release or beneath the Site and determined the underlying geology appears to be stable. The karst survey report is included in Appendix B. Based on the findings of the karst survey, unstable geology and/or potential conduits to groundwater through karst features appear to be absent and as such, Matador respectfully requests karst features and unstable geology not be considered as sensitive Site receptors as they relate to the Site.



Based on the results of the desktop Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) *currently* 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

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH will be applied to the top 4 feet of soil, per 19.15.29.13.D (1) NMAC for the impacted area off-pad.

CULTURAL RESOURCE AND BIOLOGICAL SURVEYS

Remediation activities are anticipated to remain in previously disturbed areas of the well pad. Matador has complied with the Cultural Properties Protection (CPP) Rule by completing a review of the New Mexico cultural resources information system (NMCRIS) and records maintained by the archaeological records management section (ARMS) of the Historic Preservation Division of the New Mexico Department of Cultural Affairs, in accordance with 4.10.15.9 NMAC. An archaeological survey was conducted by Beaver Creek Archeology and Environmental, and the survey findings were negative for the Site. The survey determined the release area was negative for cultural properties, and as such, the Cultural Properties Protection Rule (CPP) has been followed. The NMSLO Cultural Resources Cover sheet is included in Appendix C. Matador submitted a Right-of-Entry (ROE) form to the NMSLO, and the executed copy is included in Appendix D.

The Site is located within the historical range of the Lesser Prairie Chicken (LPC) and within an NMSLO Candidate Conservation Agreement with Assurances (CCAA) area. Measures to comply with the CCAA include restoration of habitat by removal of the caliche pad, reclamation of the well pad, and revegetation with native species. Construction activities will be avoided during breeding, nesting, and early brood-rearing seasons. The Site is not located within the CCAA boundary for the Texas Hornshell mussel. A review of the U.S. Fish and Wildlife Services Information for Planning and Consultation (IPaC) resources indicated there are no critical wildlife habitats at the Site. IPaC resources indicated that threatened or endangered cactus and bird species are potentially present in the area near the Site. No native vegetation/habitat outside of the well pad extent will be disturbed during reclamation activities. If reclamation activities extend outside of the well pad extent, a biological survey will be completed.

SITE ASSESSMENT AND DELINEATION SOIL SAMPLING ACTIVITIES

Beginning on April 30, 2025, Ensolum personnel were onsite to complete lateral and vertical delineation of the release extent as indicated by field observations and the *Remediation Closure Report* originally submitted by SMA. Five lateral soil samples (SS01 through SS05) were collected at ground surface and 1-foot bgs to verify the lateral extent on-pad. A total of 12 boreholes (BH01 through BH09 and BH10A through BH10C) were advanced via backhoe, within the release extent to assess the vertical extent of the release. Boreholes BH01 through BH07 were advanced on-pad to a depth of 15 feet bgs in borehole BH01, 10 feet bgs in boreholes BH02 and BH03, 3 feet bgs in borehole BH04, 1-foot bgs in borehole BH05, 11 feet bgs in borehole BH06, and 2 feet bgs in borehole BH07. Boreholes BH08, BH09, and BH10A through BH10C were advanced from the previously excavated and backfilled area off-pad at



depths ranging from 4 feet bgs to a terminal depth of 6 feet bgs to confirm the off-pad extent was adequately reclaimed.

On August 27, 2025, Ensolum personnel returned to the Site to complete lateral delineation of the impacted soil as indicated by field observations. Two lateral soil samples (SS07 and SS08) were collected at ground surface and 1-foot bgs and one lateral soil sample SS06 was collected at 0.5 feet bgs to verify the lateral extent on-pad.

All delineation soil samples were field screened for chloride and TPH utilizing Hach® chloride QuanTab® test strips and a PetroFLAG® Soil Analyzer System, respectively. Field screening results and observations for the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix E. Photographic documentation of delineation activities is included in Appendix F.

All 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 Analytical Laboratory (Envirotech) in Farmington, New Mexico, for analysis of the following chemicals of concern (COCs): 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.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results from lateral delineation soil samples (SS01 through SS05, SS07, and SS08), collected at ground surface and 1-foot bgs, and lateral delineation soil sample SS06, collected at 0.5 feet bgs, indicated that all COC's were in compliance with the Site Closure Criteria and with the reclamation requirement. Laboratory analytical results for borehole sample locations BH01, BH06, and BH07 indicated concentrations of chloride exceeded the Site Closure Criteria at ground surface. Borehole sample locations BH02 through BH05 were in compliance with the Site Closure Criteria at ground surface. Laboratory analytical results from borehole sample locations BH08, BH09, BH10A, BH10B, and BH10C indicated all COC concentrations were in compliance with the Site Closure Criteria and with the reclamation equipment at depths ranging from 4 feet bgs to 6 feet bgs, indicating the off-pad release extent had been adequately reclaimed. Laboratory results are summarized in Table 1 and laboratory analytical reports are included in Appendix G.

PROPOSED REMEDIATION WORK PLAN

Matador proposes to complete excavation activities at the Site according to the following actions:

- Excavate impacted and waste-containing soil on-pad in the vicinity of boreholes BH01 through BH04, BH06 and BH07 in accordance with the Site Closure Criteria and with the reclamation requirement. Matador is in the process of reclaiming the Site and all equipment will be removed prior to beginning excavation activities.
- The excavation will be completed with mechanical equipment, and the proposed excavation extent and depths are depicted on Figures 3a and 3b. Figure 3a depicts the proposed excavation extent if no excavation occurs off pad. Figure 3b depicts off pad excavation area if excavation is warranted.
- The impacted area measures 10,542 square feet in size and an estimated 196 cubic yards of impacted soil will require excavation. This work will include addressing chloride and TPH impacts and waste containing soil identified in boreholes BH01 through BH04, BH06 and BH07 at ground surface, see Figure 2.



- Impacted soil and waste containing soil will be transferred to an approved landfill facility for disposal.
- Matador respectfully requests a confirmation sampling variance at a frequency of one five-point composite soil sample every 400 square feet from the floor of the excavation and at a frequency of every 200 square feet from the sidewalls of the excavation. Based on the areal extent of the off-pad excavation area, the variance request will be equally protective of human health, the environment, and depth to ground water is reasonably estimated to be greater than 55 feet bgs, there are no other sensitive receptors in the vicinity of the Site. Therefore, this variance is believed to be equally protective of human health, the environment, and groundwater.
- The excavation will be backfilled and recontoured to match pre-existing conditions and seeded
 utilizing a weed-free seed mix designed by the NMSLO to meet reclamation standards for this
 region. Seeding is anticipated to be completed in the spring or fall when temperatures and
 precipitation is most conducive for vegetative growth.
- Matador respectfully requests a variance for the off-pad excavation area. SMA previously excavated the off-pad release extent to 4 feet bgs (see denied closure report in Appendix H). Ensolum's delineation potholes PH08, PH09, PH10A, PH10B, and PH10C, collected at depths ranging from 4 feet to 6 feet bgs to confirm excavation activities completed by SMA indicated COC concentrations are in compliance with the Site Closure Criteria and the reclamation requirement. The off-pad excavation conducted by SMA was backfilled after excavation was completed during the 2024 remediation activities and the area has since been revegetated see Photolog in Appendix F. Excavation of the off-pad area will result in the destruction of native plant and wildlife habitat that has returned to natural conditions. Matador believes this variance request will provide equal or better protection of public health, the environment. Matador respectfully requests approval for this variance request associated with Incident Number nAB1821141249.
- Pending the approval of this Remediation Work Plan and the closure of Incident number NAB1821141249, Matador will complete reclamation activities at the Site and send a follow-up Reclamation Activities Report to NMSLO.

Matador believes the deficiencies identified by NMOCD in the March 16, 2023, denial have been adequately addressed in this RWP and will be protective of human health, the environment, and groundwater. Matador will complete the proposed excavation and soil sampling activities within 180 days of the date of approval of this RWP by the NMOCD.

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

Sincerely, **Ensolum**, **LLC**

Ashley Giovengo Associate Principal Daniel R. Moir, PG (licensed in WY & TX) Senior Managing Geologist

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cc: Jason Touchet, Matador Production Company

Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3a	Proposed Excavation Extent (On-Pad)
Figure 3b	Proposed Excavation Extent (Off-Pad)

Table 1 Soil Sample Analytical Results (Delineation Soil Samples)

Appendix A Well Log and Record

Appendix B Karst Survey

Appendix C NMSLO Cultural Resources Cover Sheet

Appendix D Executed Right-of-Entry Form Appendix E Lithologic Soil Sampling Logs

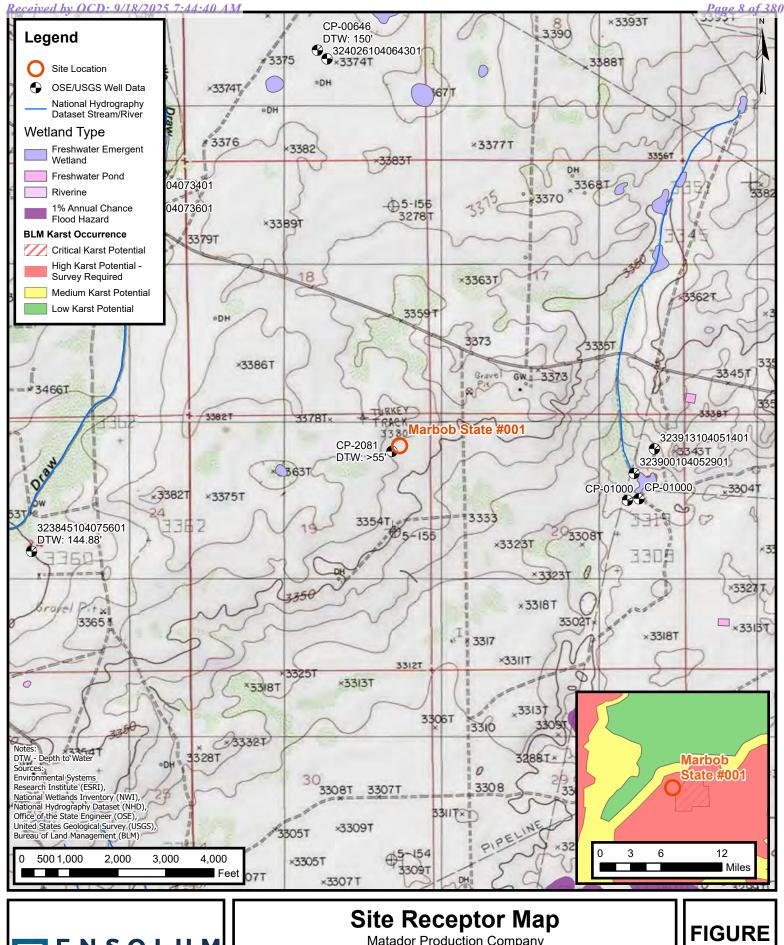
Appendix F Photographic Log

Appendix G Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix H Remediation Closure Request



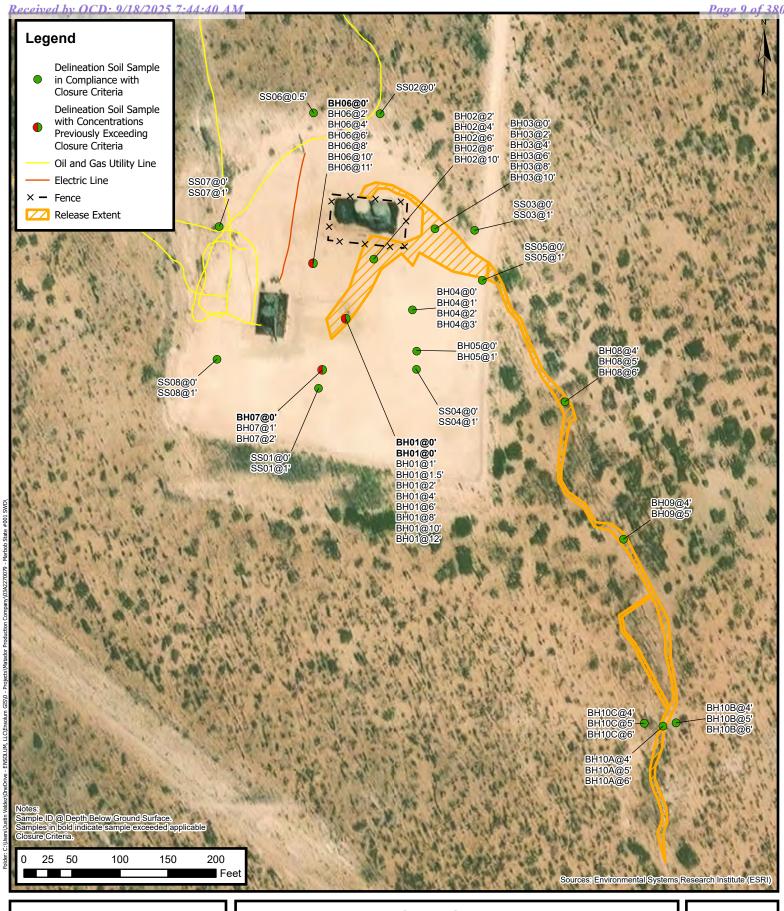
FIGURES





Matador Production Company Marbob State #001 Incident Number: nAB1821141249 Unit A, Section 19, T 19S, R 29E Eddy County, New Mexico FIGURE 1

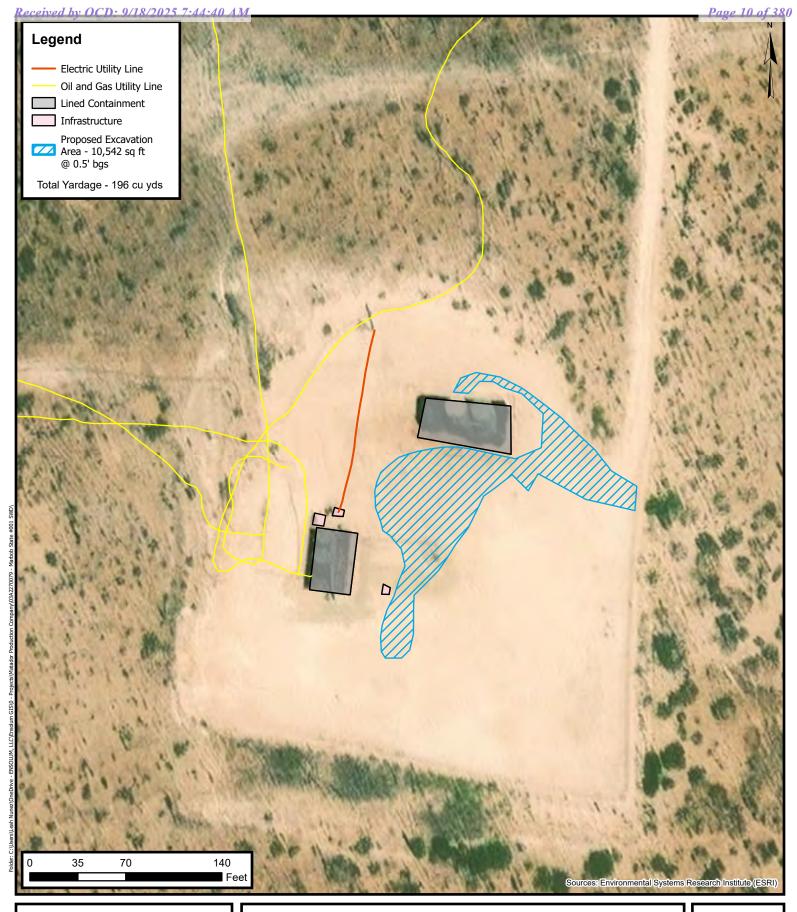
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Delineation Soil Sample Locations

Matador Production Company Marbob State #001 Incident Number: 30-015-26040 Unit A, Section 19, T 19S, R 29E Eddy County, New Mexico FIGURE 2

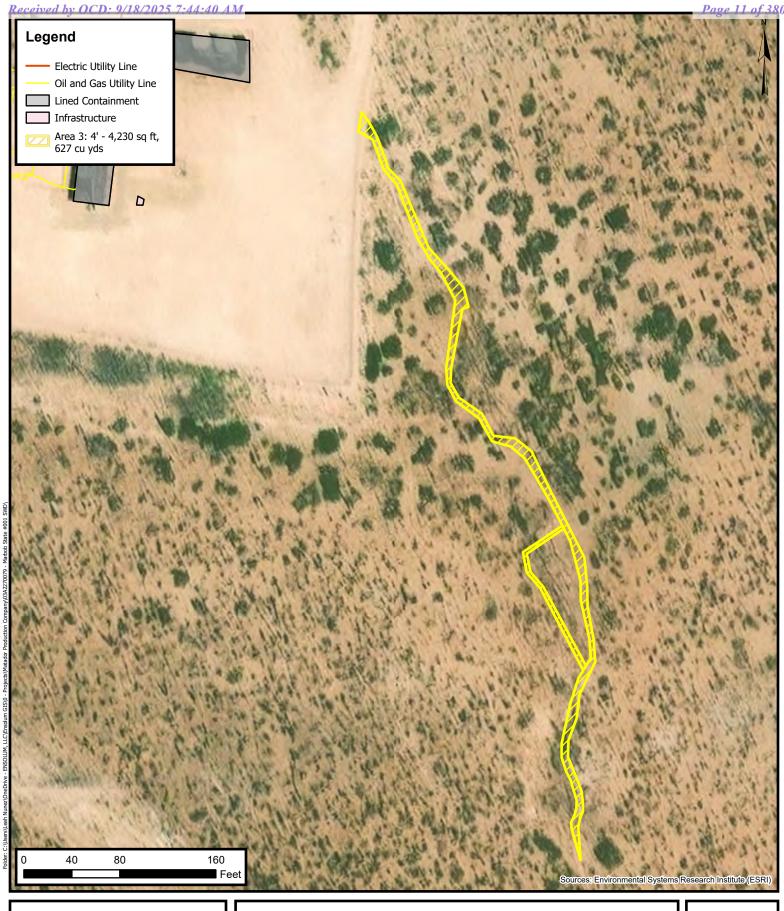




Proposed Excavation Extent

Matador Production Company Marbob State #001 SWD Incident Number: nAB1821141249 Unit A, Section 19, T 19S, R 29E Eddy County, New Mexico FIGURE 3a

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Proposed Excavation Extent

Matador Production Company Marbob State #001 Incident Number: nAB1821141249 Unit A, Section 19, T 19S, R 29E Eddy County, New Mexico FIGURE 3b



TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Marbob State #001

Matador Production Company Eddy 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	
				Delin	eation Soil San	nples					
SS01	5/1/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	131	
SS01	5/1/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	26.8	
SS02	5/1/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	45.4	
SS03	4/30/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	383	
SS03	4/30/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	328	
SS04	5/1/2025	0	<0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	98.4	
SS04	5/1/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	50.0	
SS05	4/30/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	51.1	
SS05	4/30/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0	
SS06	8/27/2028	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	108	
SS07	8/27/2028	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0	
SS07	8/27/2028	1	<0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	91.4	
SS08	8/27/2028	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	252	
SS08	8/27/2028	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	361	
BH01	5/1/2025	0	<0.0250	<0.0500	<20.0	119	72.7	119	191.7	18,300	
BH01	5/14/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	21,300	
BH01	5/1/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,500	
BH01	5/1/2025	1.5	< 0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,540	
BH01	5/14/2025	2	< 0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	967	
BH01	5/14/2025	4	<0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,530	
BH01	5/14/2025	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	4,120	
BH01	5/14/2025	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,750	
BH01	5/14/2025	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,280	
BH01	5/14/2025	12	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	823	
BH02	5/14/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,460	
BH02	5/14/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,790	
BH02	5/14/2025	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,710	
BH02	5/14/2025	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,260	
BH02	5/14/2025	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	241	
BH03	5/15/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	814	
BH03	5/15/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,210	
BH03	5/15/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,420	
BH03	5/15/2025	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,650	
BH03	5/15/2025	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1320	



TABLE 1 - CONT'D SOIL SAMPLE ANALYTICAL RESULTS

Marbob State #001

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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
				Delin	eation Soil Sar	nples				
BH03	5/15/2025	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	145
BH04	5/15/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,890
BH04	5/15/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	798
BH04	5/15/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	400
BH04	5/15/2025	3	< 0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	246
BH05	5/16/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	333
BH05	5/16/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	393
BH06	5/16/2025	0	<0.0250	<0.0500	<20.0	209	163	209	372	16,500
BH06	5/16/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,170
BH06	5/16/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,360
BH06	5/16/2025	6	< 0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,880
BH06	5/16/2025	8	< 0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,320
BH06	5/16/2025	10	< 0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	732
BH06	5/16/2025	11	<0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	208
BH07	5/19/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	31,000
BH07	5/19/2025	1	< 0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,310
BH07	5/19/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	152
BH08	5/20/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	968
BH08	5/20/2025	5	< 0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	590
BH08	5/20/2025	6	< 0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	382
BH09	5/20/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	390
BH09	5/20/2025	5	< 0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	212
BH10A	5/20/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH10A	5/20/2025	5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH10A	5/20/2025	6	< 0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0



TABLE 1 - CONT'D

SOIL SAMPLE ANALYTICAL RESULTS

Marbob State #001 Matador Production Company

	Eddy 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		
	Delineation Soil Samples											
BH10B	5/20/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	89.4		
BH10B	5/20/2025	5	< 0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	72.1		
BH10B	5/20/2025	6	< 0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	45.3		
BH10C	5/20/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	71.9		
BH10C	5/20/2025	5	< 0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	82.8		
BH10C	5/20/2025	6	< 0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	70.2		

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

"<": 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

Well Log and Record



11.	OSE POD NO. (WE Pod 1	LL NO.)			WELL TAG ID N	0.		OSE FILE NO(S CP-2081							
1	WELL OWNER NA Matador Produ		Company					PHONE (OPTIO	NAL)						
	WELL OWNER M. 5400 Lyndon E		ADDRESS son FWY Suite 15	00				Dallas		STATE TX	75240	ZIP			
]	WELL LOCATION	LATI	TUDE	EGREES 32	MINUTES 39	SECONDS 5.44	N	1 25 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	REQUIRED: ONE TENT	'H OF A SI	ECOND				
-	(FROM GPS) DESCRIPTION R		GITUDE	104 O STREET ADD	6 DRESS AND COMM	29.78 ON LANDMARI	W CS-PLS	1720000	UIRED: WGS 84 WNSHJIP, RANGE) WHI	ERE AVAI	LABLE				
	S19 T19s R29					1000									
	WD-1862		NAME OF LICENSEE	DRILLER	James Hawle	у				Enterpri	ses, LLC				
-	DRILLING START 8-12-25	TED	DRILLING ENDED 8-12-25	DEPTH OF C	OMPLETED WELL 55'	(FT) B	ORE HO	LE DEPTH (FT) 55'	DEPTH WATER FIRS	N/A					
	COMPLETED WE	LL IS:	ARTESIAN *add	DRY HO	DLE SHAL	LOW (UNCONF	INED)		WATER LEVEL PLETED WELL N		ATE STATIC 1				
	DRILLING FLUID):	✓ AIR	☐ MUD	ADDI	TIVES - SPECIF	Υ:		Lavrav	THENE IE	DEL ECC ADAL	TED IC			
	DRILLING METH	OD: 🗸	ROTARY HAM	IMER CA	BLE TOOL O	THER - SPECIF	Y:		INSTAL	LED	PITLESS ADAI	TEKIS			
& CASING INFORMATION	DEPTH (feet bgl) FROM TO DIAM (inches)		(include	G MATERIAL A GRADE e each casing stri	ng, and	CON	ASING NECTION TYPE pling diameter)	CASING INSIDE DIAM. (inches)	THI	NG WALL CKNESS nches)	SLO' SIZE (inche				
& CA	0'	55'	6'	35.5.5	o casing left in ho		aud cou	oning (dameter)							
DRILLING															
JE															
						-									
									1						
				I IST AND	NULAR SEAL MA	TERIAL AND	GRAV	EL PACK SIZE-			- 1,524	L			
,	DEPTH (fee		BORE HOLE DIAM. (inches		RANG	E BY INTERV	AL		AMOUNT (cubic feet)		METHO PLACE!				
ANNULAR MATERIAL	FROM TO DIAM (menes) *(if		*(if using (Centralizers for A	N/A	dicate t	he spacing below								
K MA															
NNOLA															
3. A.															

FOR OSE INTERNAL USE

FILE NO.

POD NO.

TRN NO.

PAGE 1 OF 2

L	DEPTH (fe	et bgl)	THE WATER	COLOR AND TYPE OF MATERIAL	ENCOUNTERED -	WA	TER	ESTIMATED YIELD FOR
	FROM	то	THICKNESS (feet)	INCLUDE WATER-BEARING CAVITIES (attach supplemental sheets to fully		LU.	RING? S / NO)	WATER- BEARING ZONES (gpm
T	0'	15'	15'	Sand		Y	√ N	
1	15'	20'	5'	Brown Clay		Y	✓ N	
t	20'	25'	5'	Sand		Y	✓ N	
1	25'	40'	15'	Red/Brown clay		Y	√ N	
t	40'	55'	15'	Red Sandy Clay		Y	✓ N	
1						Y	N	
						Y	N	
1						Y	N	
1						Y	N	
t						Y	N	
t						Y	N	
1						Y	N	
1						Y	N	
1		-				Y	N	
1						Y	N	
1						Y	N	
1						Y	N	
1						Y	N	
1						Y	N	
+						Y	N	
1						Y	N	
	METHOD U			OF WATER-BEARING STRATA: BAILER OTHER – SPECIFY: DTG	W Bore	TOTAL EST WELL YIE		0.00
	WELL TES	T TES	T RESULTS - ATT RT TIME, END TI	ACH A COPY OF DATA COLLECTED DURIN ME, AND A TABLE SHOWING DISCHARGE	NG WELL TESTING, AND DRAWDOWN	INCLUDING DIS	SCHARGE FING PERI	METHOD, OD.
TEST, MAS SOL			w p	epth to groundwater bore was gauged for was removed, bore hole was backfilled from lug was poured from 10' BGS to surface.	oottom to 10' BGS w	rith drill cutting	s. Hydrate	d Bentonite ho
	Nathan Sm	elcer		RVISOR(S) THAT PROVIDED ONSITE SUPE				
SIGNATORE		BEGORD	OF THE ADOME	FIES THAT, TO THE BEST OF HIS OR HER I DESCRIBED HOLE AND THAT HE OR SHE V 30 DAYS AFTER COMPLETION OF WELL D James Hawley	WILL FILL TIME WE	DE RECORD W	TH THE S	TATE ENGINE
0.0	A	SIGN	ATURE OF DELL	ER / PRINT SIGNEE NAME			DATE	
			0		WR-20	WELL RECORD	& LOG (Version 09/22/20
		DIT TATE	F		11 IC-20	DDD .tDCCItt		
	DR OSE INTE	CIVAL US		POD NO.	TRN NO	O.		



PLUGGING RECORD



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

tate I	Engineer Well Number: CP	-2081 POd 1							
Vell c	owner: Matador Production	Company	1 1500	Phone No.:					
Mailin	g address: 5400 Lyndon B	Johnson FWY S	Suite 1500	_				75040	
City:	Dallas		State:		TX		_ Zip code:	75240	
I. W	ELL PLUGGING INFOR	RMATION: mpany that plug	ged well: H	&R Enter	prises, LLC				
2)	New Mexico Well Drille					Expira	tion Date: 6	3/16/27	
3)	Well plugging activities Nathan Smelcer	were supervised	by the follo	wing wel	l driller(s)/rig	supervisor(s):		
4)	Date well plugging bega	n: 8-18-25		Date	well pluggin	g concluded:	8-18-25		
5)	GPS Well Location:	Latitude: Longitude:	32 104	_deg, _deg,	39 mi 6 mi		_ sec, WGS	84	
6)	Depth of well confirmed by the following manner	at initiation of well sounder	plugging as:	55	ft below g	ground level (bgl),		
7)	Static water level measu					5,57,22			
8)	Date well plugging plan	of operations w	as approved	by the St	ate Engineer:	7/14/25	-		
9)	Were all plugging actividifferences between the	ities consistent v approved plugg	vith an appro ing plan and	ved plugg the well	ging plan? _ as it was plug	yes ged (attach a	If not, dditional pag	please describ es as needed):	
1									
1									

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:

Depth (ft bgl)	Plugging <u>Material Used</u> (include any additives used)	Volume of <u>Material Placed</u> (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	0' - 10' Hydrated Bentonite	Approx. 15 gallons	15 gallons	pour	
_	10' - 55' Drill Cuttings	Approx. 67 gallons	67 Gallons	pour	
_					
-					
-	J	MULTIPLY cubic feet x cubic yards x 20	BY AND OBTAIN 7.4805 = gallons 01.97 = gallons	L	A.

III. SIGNATURE:

				familiar							
Engineer pertaining to the plugging of wells and that	each a	and al	of th	e stateme	ents in	this	Plugg	ging R	lecord an	d attach	ments
are true to the best of my knowledge and belief.	11		0								

Signature of Well Driller

Various Contambas 0 2

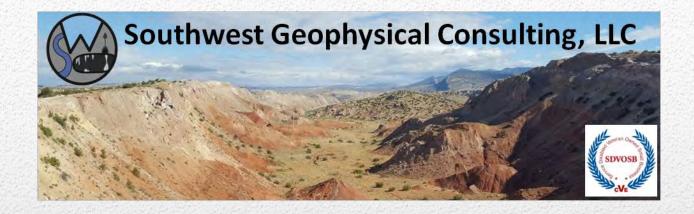
Date

8/18/25



APPENDIX B

Karst Survey



Environmental Karst Study Report Matador Marbob State No. 001 Eddy County, New Mexico

Prepared For:

Ensolum, LLC 3122 National Parks Highway Carlsbad, NM 88220

Within 200 feet of the spill delineation boundary:

☑ Negative **□** Positive for surface karst

☑ Stable **□** Unstable Ground

☐ Karst Monitor Recommended

July 21, 2025

ENS-013-20250617

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MMXXV

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1.0 INTRODUCTION

This report was commissioned by Ensolum, LLC (hereinafter referred to as "the client"), on June 17, 2025, for the purpose of conducting an environmental karst study within an area encompassing the Matador Marbob State No. 001 release site (hereinafter termed "MS01") centered at N 32.651148° W 104.106833°.

1.1 Goals of this Study

The goals of this study are to conduct a surface karst inventory and provide the client with the location and description of any surface karst features located within 200 feet (61 meters) of the spill delineation boundary (as defined by 19.15.29.12 NMAC^[1]), and to determine whether stable ground exists (as defined by 19.15.2 NMAC Definitions^[2]) within 200 feet of the spill delineation boundary of the Matador Marbob State No. 001 release as provided by the client via e-mail (Marbob State No. 001 Off Pad.kmz and Marbob State No. 001 On Pad.kmz) on June 17, 2025, using electrical resistivity imaging^[3].

1.2 Summary of Findings

- No surface karst features exist within 200 feet (61 meters) of the spill delineation boundary.
- No anomalies consistent with subsurface air- or water-filled voids were found within the MS01 geophysical survey area, indicating the zone beneath the geophysical survey is not subject to collapse.
- Well-layered stratigraphy is interpreted to exist beneath the area where the geophysical survey was conducted, indicating stable ground within the 200-foot survey boundary.

1.3 Affected Environment

The MS01 project site is located in evaporite karst terrain, a landform that is characterized by underground drainage through solutionally enlarged conduits. Evaporite karst terrain may contain sinkholes, sinking streams, caves, and springs. Sinkholes leading to underground drainages and voids are common. These karst features, as well as occasional fissures and discontinuities in the bedrock, provide the primary sources for rapid recharge of the groundwater aquifers of the region. Additionally, karst may develop by hypogene processes involving dissolution by upwelling fluids from depth independent of recharge from the overlying or immediately adjacent surface. Hypogene karst systems may not be connected to the surface and can remain undiscovered unless encountered during drilling or excavation.

Karst features are delicate resources that are often of geological, hydrological, biological, and archeological importance, and should be protected. The four primary concerns in these types of terrain are environmental issues, worker safety, equipment damage, and infrastructure integrity.

The Bureau of Land Management (BLM) categorizes all areas within the Carlsbad Field Office (CFO) zone of responsibility as having either low, medium, high, or critical cave potential based on geology, occurrence of known caves, density of karst features, and potential impacts to freshwater aquifers^[4]. These designations are also recognized by the New Mexico State Land Office (NMSLO). This project occurs within a **HIGH** karst occurrence zone (HKOZ)^[5] (**Figure 1**).

A high karst occurrence zone is defined as an area in known soluble rock types that contains a high frequency of significant caves and karst features such as sinkholes, bedrock fractures that provide rapid recharge of karst aquifers, and springs that provide riparian habitat [4].

Due to the rapidity with which evaporite karst develops, each location within a BLM-CFO designated critical or high karst occurrence zone must be assessed on an individual basis to determine the existence of surface karst features and the possibility of sub-surface karst development each time a release occurs.

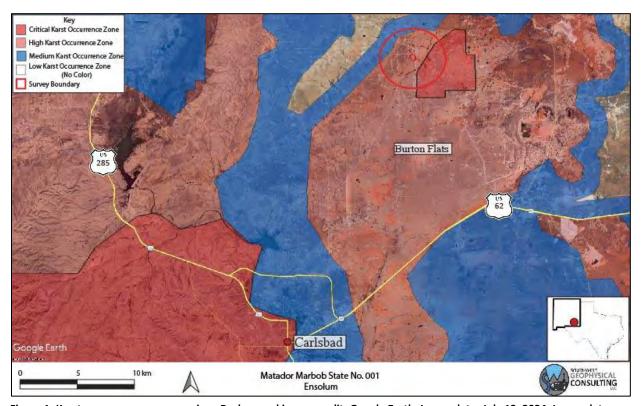


Figure 1: Karst occurrence zone overview. Background image credit: Google Earth. Image date: July 13, 2024. Image datum: WGS-84.

1.4 Limitations of Report

This report should be read in full. No responsibility is accepted for the use of any part of this report in any other context or for any other purpose or by third parties. This report does not purport to give legal advice. Legal advice can only be given by qualified legal practitioners.

This report has been prepared for the use of Ensolum, LLC, in accordance with generally accepted consulting practices. Every effort has been made to ensure the information in this report is accurate as of the time of its writing. This report has not been prepared for use by parties other than the client, their contracting party, and their respective consulting advisors. It may not contain sufficient information for the purposes of other parties or for other uses.

This report was prepared upon completion of the associated fieldwork using a standard template prepared by Southwest Geophysical Consulting and is based on information collected prior to fieldwork, conditions encountered on site, and data collected during the fieldwork and reviewed at the time of preparation. Southwest Geophysical Consulting disclaims responsibility for any changes that might have occurred at the site after this time. The interpreted results, locations, and depths noted in this report (if applicable) should be taken as an interpretation only and no decision should be based solely on this information. Physical verification of aerial imagery analysis results should be conducted in the field prior to using this information for remediation planning. Physical verification of geophysical results using geotechnical methods should be conducted.

To the best of our knowledge, the information contained in this report is accurate at the date of issue. Due to the nature of karst terrain, the information in this report shall not be used beyond two years past the date of the field work provided in section **2.3 Description of Survey**. Large weather events can shorten this time period as areas subject to karst development can rapidly form new features subsequent to these events.

2.0 LOCATION AND DESCRIPTION OF STUDY AREA

2.1 Description of Site

The site is located 28.3 kilometers (17.6 miles) northeast of Carlsbad, New Mexico, south of Curry Comb Road and east of Buckskin Road. The release area is located within the NE ¼ section of section 19; NM T19S R29E^[6] (Figure 1 and Figure 2). The region has rolling terrain with karstification occurring in the gypsite soils and underlying gypsum and dolomite bedrock^[7] (see section 2.2 Local Geology Summary for further information). The climate in this area of southeast New Mexico is semi-arid with an average annual precipitation of approximately 13 inches, of which about two-thirds falls as rain during summer thunderstorms from June to October. Summers are hot and sunny while winters are generally mild, with an average maximum temperature of 96°F in July and an average minimum temperature of 28°F in January^[8]. This area is within the Chihuahuan Desert Thornscrub as defined by the Southwestern Regional ReGAP Vegetation map^[9] and the vegetation consists mostly of areas of blue grama, nine-awned pappus grass, burro grass and low scrub including yucca. The spill delineation boundary is located within an HKOZ^[5] (Figure 1) and within NMSLO managed land^[10] (Figure 2).

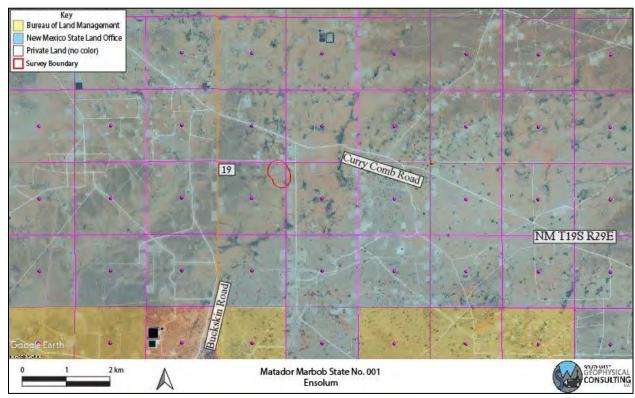


Figure 2: Land ownership and PLSS overview. Background image credit: Google Earth. Image date: July 13, 2024. Image datum: WGS-84.

2.2 Local Geology Summary

The site for the MS01 survey is located at an elevation of 1,024 meters (3,360 feet), \pm 6 meters (19.7 feet). This region is entirely underlain by the Permian Rustler Formation (Pru). The area is mantled by thin gypsiferous soils (gypsite), Quaternary alluvial piedmont gravels (Qp), eolian deposits (Qe), and alluvium (Qal)^[11] up to 5 meters in depth (**Figure 3**).

The Rustler Formation is an evaporite facies composed mainly of thin siltstones and sandstones interbedded with claystones, dolomite, and gypsum, and contains both karst-forming strata (the Forty-niner and Tamarisk members) and two shallow aquifers (the Magenta and Culebra Dolomite members)^[12].

The Pru overlies the Permian Salado Formation (PsI – not shown in the below image), a layer of extremely soluble halite which can readily dissolve to create caves, sinkholes, and other karst features; however, due to its extremely soluble nature, only non-soluble silt and sand remain from the dissolution of this layer at the surface^[12]. The Rustler Formation may be subject to collapse if a void has developed beneath it in the Salado Formation^[13].

The survey area is covered by the easily accessible Geologic Map of New Mexico (2003) at 1:500,000 scale^[14] and the Digital Geologic Map of New Mexico in ARC/INFO Format^[11].

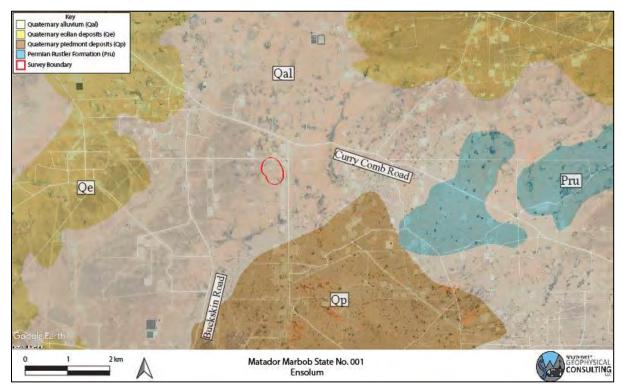


Figure 3: Geology overview. Geology map credit: The Digital Geologic Map of New Mexico in ARC/INFO Format. Background image credit: Google Earth. Image date: July 13, 2024. Image datum: WGS-84.

2.3 Description of Survey

2.3.1 Surface Karst Survey

Southwest Geophysical Consulting, in partnership with SWCA Environmental Consultants, provides surface karst surveys using small, uncrewed aerial systems (sUAS) that are flown by qualified, FAA licensed drone pilots and that meet the stringent Bureau of Land Management – Carlsbad Field Office requirements for both pedestrian and aerial karst surveys.

The surface karst survey includes a desk study prior to the flight which allows us to provide client feedback in the event of any previously known karst features in the area. The desk study is performed out to 305 meters (1,000 feet) from the spill delineation boundary per New Mexico Oil Conservation Division guidance [1] (Figure 4). The study was performed using satellite and aerial imagery from Google Earth Pro dated July 13, 2024 (please note features less than one meter in diameter are generally not visible using this method); the Southwest Geophysical Cave and Karst Database dated May 20, 2025^[15]; the Illinois Camp NE, NM, 1:24,000 quad, 1985, USGS topographic map; and the latest lidar imagery from CalTopo.com. Please note that we use older topographic maps because newer maps have had caves removed from them. These searches and queries returned one karst feature within the 305-meter survey boundary.

Surface karst surveys are conducted by sUAS at low elevation within 200 meters of the spill delineation boundary^[4] (**Figure 4**) following a preplanned raster pattern flightpath designed for the purpose of generating at least 75% imagery overlap. The collected high-resolution, georeferenced imagery is stitched together to develop orthomosaic imagery which is further developed into a digital elevation model (DEM); the DEM is then processed into a local relief model (LRM) (**Figure 6**). This LRM is color coded to enhance differences in elevation of as little as five centimeters. The orthoimagery, DEM, and LRM are uploaded to a server where they are analyzed by an experienced karst geologist. Finally, the data is reviewed by a senior karst geologist for quality assurance and downloaded into a table for inclusion in a written report^[16].

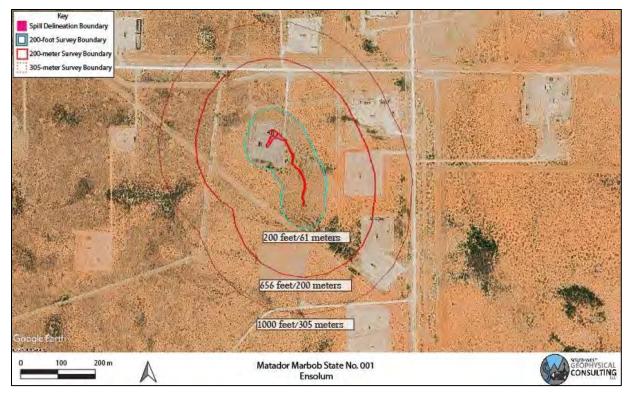


Figure 4: Surface survey overview. Background image credit: Google Earth. Image date: July 13, 2024. Datum: WGS-84.

The resolution of the orthoimagery is clear enough that features as small as 10 centimeters can be positively identified in most circumstances. Occasionally there are ambiguous features identified during an aerial survey that will need to be checked in the field if they are impacted by the proposed remediation efforts. Specifically, it is difficult to tell the difference between solution tubes, abandoned uncased well bores, and some burrows in drone imagery. If an ambiguous feature is located during imagery analysis, it is marked with a yellow dot in **Figure 6**. If a feature of any likelihood is subsequently verified in the field prior to publication of the report, the dot will be changed to a red triangle if confirmed as a karst feature or deleted if not.

The imagery for this study was collected via aerial survey by Pat Lagodney of SWCA on June 23, 2025. Surface karst features may have developed after this date and will not be noted in this report. Imagery analysis was completed by Britt Bommer of Southwest Geophysical Consulting on July 3, 2025.

2.3.2 Geophysical Survey

For this survey, a Guideline Geo Terrameter LS 2 and a 42-electrode array of 40-centimeter-long electrodes were used to image the subsurface. This survey consisted of one resistivity line in a dipole-dipole configuration laid out south to north. This line consisted of 42 electrodes at 5-meter spacing, resulting in a 205-meter-long array (**Figure 5**, **Table 1**). A preconfigured protocol file was used to run the data collection (DipoleDipole3x14). This electrode configuration provided a depth of investigation of 41 meters (135 feet) and a resolution of 2.5 to 3.0 meters (8.2 to 9.8 feet) within the first 5 to 8 meters (16 to 26 feet) from the surface. A Leica GS18 GPS was used to record electrode locations and elevations.

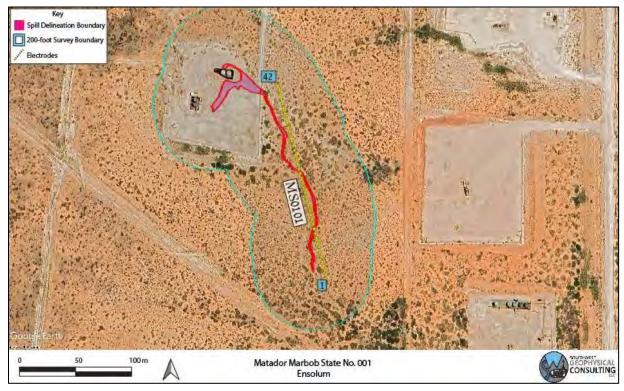


Figure 5: Geophysical survey overview. One survey line was conducted with 42 electrodes at 5-meter spacing (yellow dots denoted with blue numbers). Background image credit: Google Earth. Image date: July 13, 2024. Image datum: WGS-84.

Table 1 provides basic line data. Detailed information including electrode number, location in latitude/longitude (decimal degree format), and elevation in meters can be found in the accompanying data files.

Table 1: Survey Line Data Table. The .kmz file contains all the points for the survey line listed in the file name. These data are available in the accompanying files MS01_ERI_Points.xlsx and ENS-013-20250617_MS01_Data_Files.kmz.

File Name:	Completed By:	Date:
MS0101.kmz	Garrett Jorgensen Olague – Senior Field Geologist Britt Bommer – Field Geologist Steven Kesler – Field Geologist	7/8/2025

EarthImager[™] 2D software was used to download and process the data and to provide the model used to make our interpretations. The design of the survey and the orientation of each of the lines provides the information necessary to make the determination of "stable" or "unstable" ground at this site.

A typical starting model was used for the data processing due to the two-layer model of the geology in the area; specifically, generally high-resistivity gypsum and dolomite at the surface and low-resistivity saturated gypsum and dolomite bedrock at depth. The starting model used was "average apparent resistivity" and a default inversion setting of "surface," with a minimum apparent resistivity set to 0.1 Ohm-meters (Ohm-m or Ω -m) and a max apparent resistivity set to 100,000 Ω -m (**Table 2**).

Table 2: Software Information and Settings

Software Name:	EarthImager [™] 2D		
Version:	2.4.4.649		
Starting Model:	Average Apparent Resistivity		
Default Inversion Settings:	Surface		
Changes to Default Inversion Settings:	Max Apparent Resistivity = 100 kΩ-m		
	Min Apparent Resistivity = 0.1 Ω-m		

Note: Raw data files (.dat files for EarthImager™ 2D) and processed data (.trn files, terrain files for surface correction in EarthImager™ 2D and .out files, the processed .dat files) are available upon request.

All field work, including setup, stow, and travel, was completed by Garrett Jorgensen Olague, Britt Bommer, and Steven Kesler on July 8, 2025.

3.0 RESULTS

3.1 Surface Karst Survey

The desk study and surface karst survey showed no surface karst features located within the 200-foot (61-meter)^[1] survey area surrounding the spill delineation boundary (Figure 6).

One recognized surface karst feature is located within the 305-meter survey boundary (**Figure 6**, **Table 3**). Recognized surface karst features are features that are positively identified in either satellite or aerial imagery as karst features and the features have been visited by a qualified karst professional in the field and fully identified. Images for the feature are available on request.

No springs exist within the 305-meter (1,000-foot)^[1] survey boundary (**Figure 6**).

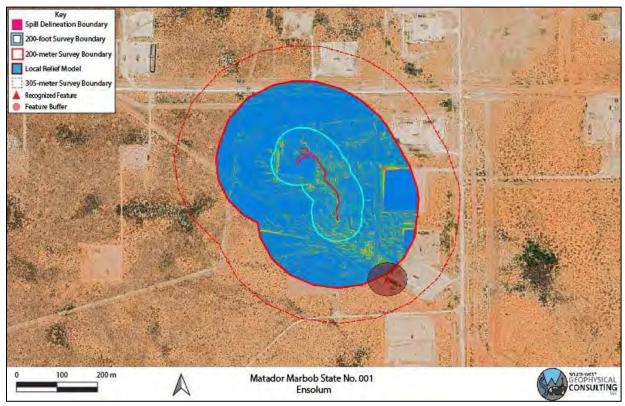


Figure 6: Surface karst survey results. Background image credit: Google Earth. Image date: July 13, 2024. Image datum: WGS-84.

Caution should be exercised while operating in or around all karst-related features due to the possibility of near-surface voids. Employing a BLM-CFO approved karst monitor on site during these activities should be considered.

Table 3 contains a list of features identified during the surface karst survey and subsequent imagery analysis. Each feature is identified with a feature identification number (Feature ID), the type of feature, estimated size (in meters), recommended buffer (in meters), the likelihood of this feature being a surface karst feature (modifiers H/M for high or medium likelihood, V for field verified), and its location in WGS-84/UTM-13 (EPSG: 32613).

Table 3: Surface Karst Feature Data Table

I	KF			Size	Buffer			
	Status	Feature ID	Туре	(m)	(m)	Mod	Easting	Northing
ĺ	RKF	240104-G114	Collapse Feature	0.4	50	V	583905.474	3612690.678

NOTE: Location data provided in WGS-84/UTM 13N. RKF – recognized karst feature.

3.2 Geophysical Survey

Electrical resistivity tomography forms images of the subsurface by causing a current to flow through the rock and soil and then measuring the resistance of these materials as the current flows through them. This measurement is taken many times and the resulting data, once processed, is used to produce a model of the subsurface (**Figure 7**). This model is produced using "non-unique" solutions, which means that there are many models and interpretations which will satisfy the data. Using experience and knowledge of the local geology, a high-confidence model can be established and used to develop an accurate understanding of what lies below the surface. This survey was conducted with the express purpose of locating subsurface voids and does not purport to find paleokarst (old, non-active karst features that have been filled in with sand and sediment) or nascent karst features below the resolution limit of the survey.

The results of this study indicate a moderately well-layered geologic system with low resistivities between 19.2 and 240 Ohm-m (**Figure 7**). Please keep in mind when viewing the 2D inverted resistivity sections that color maps can be widely different for each view. Always check the color map located on the right side of the image when viewing the 2D images to ensure you understand the range of resistivities presented. Distances along the top and depths along the left side are in meters. The color map along the right side is in Ohm-m. Due to the nature of the survey, shallower zones have higher resolution between electrodes than deeper zones; therefore, small features at depth will not be visible.

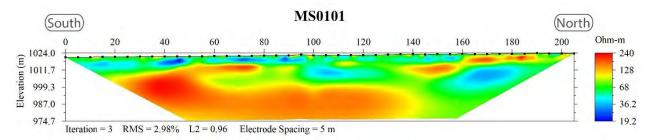


Figure 7: 2D inverted resistivity section. Reds and oranges indicate higher resistivity values. Yellows and greens are medium-resistivity values. Blues are low-resistivity values. Please note that the color scale is relative.

4.0 DISCUSSION

No surface karst features exist within 200 feet of the spill delineation boundary. One recognized surface karst feature exists outside the 200-meter survey boundary, but within the 305-meter survey boundary. This feature is associated with the nearby pipeline and may be either trench collapse caused by soil settling or karst related, with soil raveling into a solution-enlarged fracture or small void beneath the pipeline.

No anomalies consistent with air-filled subsurface voids are found within the MS01 survey area. Small solutionally enlarged voids or fractures at or near the resolution limit of the survey (2.5 - 3.0 meters) may be present. Areas of moderate resistivity (yellows, and greens) near the surface are interpreted as dry gypsite soils and gypsum or dolomite bedrock of the Rustler Formation^[17] (**Figure 7** and **Figure 8**). Very low-resistivity areas between 19.2 - 25 Ohm-m may either represent fluid from the brine release, surface-to-subsurface hydrologic pathways, or a layer of either clays and halite lenses or moist or saturated layers within the Rustler Formation (**Figure 7**).

Please remember that these are interpretations made from knowledge of the local subsurface materials and experience. **They remain interpretations until verified by geotechnical methods.** Employing a BLM-CFO approved karst monitor on site during any drilling and/or remediation activities that require excavation below four feet in depth should be considered.

Fracture sets within the subsurface can act as hydrologic pathways to the water table. Rapid dissolution of gypsum can occur along these pathways creating solution-enlarged fractures, and in some cases, voids within months to years. For this reason, this survey is valid only for this remediation event.

Within karst terrains like the project site, small air- or sediment-filled voids and/or brecciated zones and solutionally enlarged fractures that are below the resolution limit of the survey (2.5–3.0 meters) may exist; these may be encountered during excavation, and if so, should be evaluated by a karst specialist prior to continued work.

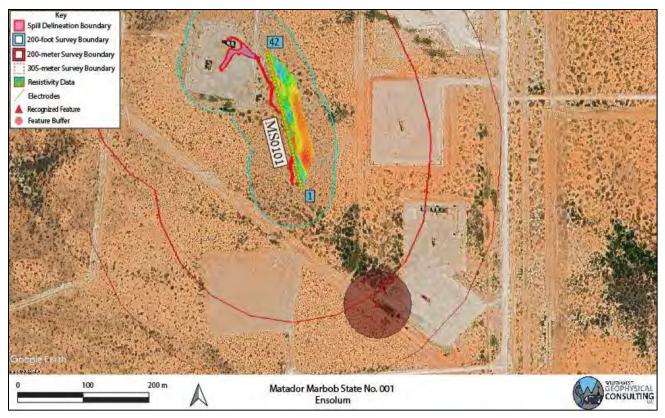


Figure 8: Data overlay. Colored trapezoid is the 2D inverted resistivity line. Background image credit: Google Earth. Image date: July 13, 2024.

5.0 SUMMARY

- The MS01 survey contains no surface karst features within 200 feet (61 meters) of the spill delineation boundary.
- One recognized surface karst feature exists within the 305-meter survey boundary.
- No shallow anomalies interpreted as large voids or related karst features that would present a danger to equipment operators are located within the geophysical survey area.
- Intercepting a void during remediation is unlikely, but still possible. Small voids or solutionally enlarged fractures below the resolution limit of the survey may be encountered.
- Well-layered stratigraphy is interpreted to exist beneath the geophysical survey line, indicating stable ground in the area of the subsurface investigation.
- When conducting any remediation activities in this area, employing a BLM-CFO approved karst monitor on site should be considered.

6.0 DISCLOSURE STATEMENT

Karst occurrence zones are prone to rapid karst formation and warrant careful planning and engineering to mitigate karst-forming processes that could be accelerated by removal of surface cover or the vibrations associated with heavy equipment used in the remediation process.

Mitigation measures for any karst features revealed during excavation shall be approved by the Bureau of Land Management – Carlsbad Field Office and follow the Natural Resources Conservation Service Conservation Practice Standard for Karst Sinkhole Treatment, Code 527, or the Bureau of Land Management Cave and Karst Management Handbook, H-8380-1.

Vigilance during remediation activities is paramount. If voids are encountered during excavation, contact the Bureau of Land Management Karst Division at (575) 234-5972, the New Mexico State Land Office Surface Resources Division at (505) 827-5768, or a BLM-CFO approved karst contractor and request an on-site investigation from a karst expert if one is not already on site. A karst consultant can generally be available in Eddy County within five hours.

Approved karst monitors should have karst feature identification training, at least two years of supervised experience identifying karst features, wilderness first aid training, SRT training, confined space training, gas monitor training, and a minimum of SPAR cave rescue training through NCRC. They should have with them the proper gear and be prepared both physically and mentally to enter a collapse feature within minutes to perform a rescue if needed. Monitoring services with qualified karst monitors, as well as cave surveys and geophysical surveys, are available from Southwest Geophysical Consulting.

Under no circumstances should an untrained, inexperienced person enter a cave, pit, sinkhole, or collapse feature. All field employees of Southwest Geophysical Consulting have extensive caving experience and the ability to determine whether entry into a karst feature is safe or presents a hazard. In the event it is necessary to enter a karst feature, Southwest Geophysical Consulting can provide these services on request.

Cave and karst resource inventory reports, karst feature investigations, and geophysical reports (along with the associated data files) commissioned at the request of the land manager should be submitted to BLM-CFO at blm.gov.

Cave and karst resource inventory reports for the NMSLO should be submitted to the respective project manager.

Environmental karst reports should be submitted to the appropriate project manager at the New Mexico Oil Conservation Division.

7.0 REFERENCES

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ENS-013-20250617 ©2025 18

8.0 GLOSSARY OF TERMS

AGI Advanced Geosciences Inc.

BLM-CFO Bureau of Land Management - Carlsbad Field Office

brecciated Fractured rock caused by faulting or collapse.

caprock-collapse sinkhole Collapse of roof-spanning rock into a cave or void.

cave Natural opening at the surface large enough for a person to enter.

cover-collapse sinkhole Collapse of roof-spanning soil or clay ground cover into a subsurface void.

ERI Electrical Resistivity Imaging
GPS Global Positioning System

grike A solutionally enlarged, vertical, or sub-vertical joint or fracture.

(H) High confidence modifier for a PKF. This is typically reserved for a

feature that is definitely karst but has not been confirmed in the field.

HKOZ High Karst Occurrence Zone

karst A landscape containing solutional features such as caves,

sinkholes, swallets, and springs.

(L) Low confidence modifier for a PKF. This is typically a feature that

cannot be ruled out as karst but is most likely NOT karst related.

This modifier may also be used for pseudokarst features.

(M) Medium confidence modifier for PKF. This is an ambiguous feature

that can't be positively identified as karst without a field visit (e.g., burrows, abandoned unlined wells, solution tubes, pseudokarst).

MKOZ Medium Karst Occurrence Zone
NCRC National Cave Rescue Commission

NKF Non-karst feature. Used for features originally identified as PKF

that have been subsequently identified in the field as non-karst related. This term may also be used for pseudokarst features.

NMSLO New Mexico State Land Office

Ohm-meter, a unit of measurement for resistivity. Sometimes

abbreviated Ω -m.

paleokarst Previously formed karst features that have been filled in by

erosion and/or deposition of minerals.

Pat Permian Artesia Group
Pc Permian Capitan Formation
Pcs Permian Castile Formation

Pdl Permian Dewey Lake Formation

PKF Possible karst feature. This term is reserved for features identified

in satellite or aerial imagery that have NOT been visited in the

field. Further modifiers include (H) for high confidence, (M) for medium confidence, and (L) for low confidence. These confidence

levels are based on field experience.

PLSS Public Land Survey System

Pqg Permian Queen/Greyburg Formation

Pru Permian Rustler Formation

pseudokarst Karst-like features (sinkholes, conduits, voids etc.) that are not

formed by dissolution. These types of features include soil piping,

lava tubes, and some cover-collapse and suffosion sinkholes.

Psl Permian Salado Formation

Psr Permian Seven Rivers Formation

Pt Permian Tansill Formation
Py Permian Yates Formation
Qal Quaternary alluvium

Qe Quaternary eolian deposits

Qp Quaternary piedmont deposits

Qpl Quaternary playa lake deposits

RKF Recognized karst feature. This term is reserved for karst features

that have been physically verified in the field.

SPAR Small Party Assisted Rescue sUAS Small, uncrewed aerial system

suffosion sinkhole Raveling of soil into a pre-existing void or fracture.

swallet A natural opening in the surface, too small for a person, that drains

water to an aquifer. Some are "open," meaning a void can be seen

below; some are "closed, "meaning they are full of sediment.

SWG Southwest Geophysical Consulting, LLC

UTM Universal Transverse Mercator (projected coordinates)

(V) Field verified modifier for a RKF. This indicates that the feature has

been visited by a qualified karst professional in the field and fully

identified

WGS World Geodetic System (geographic coordinates)

9.0 ATTESTATION

David D. Decker, PhD, PG, CPG

Chief Executive Officer, Principal Geologist Southwest Geophysical Consulting, LLC 5117 Fairfax Dr. NW Albuquerque, NM 87114 dave@swgeophys.com (505) 585-2550

CERTIFICATE OF AUTHOR

I, David D. Decker, a Licensed Professional Geologist and a Certified Professional Geologist, do certify that:

- I am currently employed as a consulting geologist in the specialty of caves and karst with an office address of 5117 Fairfax Dr. NW, Albuquerque, NM, USA, 87114.
- I graduated with a Master of Science in Applied Physics with a specialization in Sensor Systems from the Naval Post Graduate School in Monterey, California, in 2003, and a Doctor of Philosophy in Earth and Planetary Sciences from the University of New Mexico, Albuquerque, New Mexico, in 2018.
- I am a Licensed Professional Geologist in the State of Texas, USA (PG-15242) and have been since 2021. I am a Certified Professional Geologist through the American Institute of Professional Geologists (CPG-12123) and have been since 2021.
- I have been employed as a geologist continuously since 2016. I was previously employed as a
 Fire Controlman, Naval Flight Officer, and Aerospace Engineering Duty Officer in the U.S. Navy
 and operated, maintained, and installed various sensor systems including magnetic,
 electromagnetic, radar, communications, and acoustic systems in various capacities from
 1986 through 2010.
- I have been involved in various aspects of cave and karst studies continuously since 1985, including exploration, mapping, and scientific studies.
- I have read the definition of "qualified karst professional" set out in the ASTM Standard Practice for Preliminary Karst Terrain Assessment for Site Development (ASTM E-1527). I meet the definition of "qualified professional" for the purposes of this standard.
- I am responsible for the content, compilation, and editing of all sections of report number ENS-013-20250617 entitled, "Environmental Karst Study Report, Matador Marbob State No. 001, Eddy County, New Mexico." I or a duly authorized and qualified representative of Southwest Geophysical Consulting, LLC, have personally visited this site and/or reviewed the aerial imagery on the date or dates mentioned in section 2.3 Description of Survey.

• I have no prior involvement nor monetary interest in the described property or project, save for my fee for conducting this investigation and providing the report.

Dated in Albuquerque, New Mexico, July 21, 2025.



David D. Decker PhD, CPG-12123





APPENDIX C

NMSLO Cultural Resources Cover Sheet



Stephanie Garcia Richard, Commissioner of Public Lands State of New Mexico

NMSLO Cultural Resources Cover Sheet Exhibit

NMCRIS Activity Number:

Exhibit Type (select one)

(if applicable)

ARMS Inspection/Review - Summarize the results (select one):

- (A) The entire area of potential effect or project area has been previously surveyed to current standards and **no cultural properties** were found within the survey area.
- (B) The entire area of potential effect or project area has been previously surveyed to current standards and **cultural properties were found** within the survey area.
- (C) The entire area of potential effect or project area has **not** been previously surveyed or **has not been surveyed** to current standards. A complete archaeological survey will be conducted and submitted for review.

Archaeological Survey

Findings:

Negative - No further archaeological review is required.

Positive - Have avoidance and protection measures been devised? Select one:

Comments:

Project Details:

NMSLO Lease Number (if available):

Cultural Resources Consultant:

Project Proponent (Applicant):

Project Title/Description:

Project Location:

County(ies):

PLSS/Section/Township/Range):

For NMSLO Agency Use Only:

NMSLO Lease Number:

Acknowledgment-Only:

Lease Analyst:

Date Exhibit Routed to Cultural Resources Office:

No person may alter the wording of the questions or layout of the cover sheet. The completion of this cover sheet by itself does not authorize anyone to engage in new surface disturbing activity before the review and approvals required by the Cultural Properties Protections Rule.

Form Revised 12 22



APPENDIX D

Executed Right-of-Entry Form



State of New Mexico Commissioner of Public Lands

310 OLD SANTA FE TRAIL P.O. BOX 1148 SANTA FE, NEW MEXICO 87504-1148 COMMISSIONER'S OFFICE Phone (505) 827-5760 Fax (505) 827-5766 www.nmstatelands.org

Released to Imaging: 11/5/2025 11:02:30 AM

August 11, 2025

Stephanie Garcia Richard

COMMISSIONER

Matador Production Company 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240

Attn: Jason Touchet

Re: Right-of-Entry Permit No.: RE-7650 - Matador Production Company

Dear Applicant:

Enclosed is the completed captioned Right-of-Entry permit. If any corrections are necessary, please let us know and we will retype or amend this permit as necessary.

The New Mexico State Land Office requires you to notify any surface lessees that will be impacted by your project prior to construction.

If you have any questions, or if we may be of further assistance, please do not hesitate to contact Christopher Gutierrez at (505) 827-5773 or cgutierrez@nmslo.gov.

Sincerely,

James S. Bordegaray

Director, Commercial Resources Division

JSB/CLG



NEW MEXICO STATE LAND OFFICE

Commissioner of Public Lands Stephanie Garcia Richard New Mexico State Land Office Building P.O. Box 1148, Santa Fe, NM 87504-1148

RIGHT OF ENTRY PERMIT CONTRACT NO. RE – 7650

This Agreement is made and entered into between the COMMISSIONER OF PUBLIC LANDS (the "Commissioner") and

Matador Production Company 5400 LBJ Freeway Suite 1500 Dallas, TX 75240

("Permittee"). The parties agree as follows:

1. RIGHT OF ENTRY ("ROE")

The Commissioner grants to Permittee, and its authorized representatives, employees, and contractors, permission to use the state trust lands identified below (the "Premises"), and ingress and egress to the Premises, for the sole purposes of (1) surveying/conducting an environmental investigation due to a produced water release on or adjacent to the site of the Matador Production Company (Incident # NAB1821141249) and (2) conducting surface reclamation activities, including removal of equipment and debris, and any required remediation per 19.15.29.12 NMAC.

The Premises are situated in the following location in Eddy County, New Mexico:

Section	Township	Range	Subdivision	County	Longitude/Latitude
19	19S	29E	NENE	Eddy	32.6518211/-104.1077576

2. TERM AND TERMINATION

Right of entry is granted for a term of 180 days, commencing on the execution date of this document by the Commissioner of Public Lands.

3. FEES

- \$ 50.00 Application Fee
- \$ 500.00 Permit Fee
- \$ 550.00 Total Fee

Received by OCD: 9/18/2025 7:44:40 AM

4. CONDITIONS OF USE

- A. The issuance of this ROE does not guarantee that any subsequent lease, permit, or any other instrument will be issued to Permittee for the Premises.
- B. No blading or widening of any roads that provide access to the Premises is permitted under this ROE.
- C. No sale of <u>any</u> material extracted from the Premises is allowed under this ROE.
- D. Permittee shall observe all applicable federal, state, and local laws and regulations.
- E. Permittee shall take all reasonable precautions to prevent and suppress forest, brush, and grass fires and prevent pollution of waters on or in the vicinity of the Premises.
- F. Permittee shall not block or disrupt roads or trails commonly in use.
- G. This ROE is subject to any and all easements and rights-of-way previously granted and now in force and effect.
- H. Permittee shall be responsible for repair and restitution for damage to any Premises or improvements as a result of activities related to the ROE.
- I. Prior to entering the Premises, Permittee must identify and contact any existing surface lessees. The grant of this ROE does not allow access across private lands.
- J. Permittee may utilize this ROE upon its execution for inspection of the Premises and to conduct any necessary tests or inspections. Permittee may not conduct remediation or reclamation work until it has submitted a written plan for such work, and received State Land Office approval.
- K. Personnel present on Premises: Matador Production Company personnel and authorized contractors.
- L. Equipment and materials present on Premises: Vehicles, heavy equipment, and associated equipment.

5. SITE CONDITIONS

- A. No surface disturbance, other than soil tests, except as described in a reclamation plan submitted to and approved by the State Land Office.
- B. Access to the Premises shall be over existing roads.
- C. The natural environmental conditions that exist contemporaneously with this grant of ROE shall be preserved and protected. Permittee must follow all applicable environmental and cultural resource protection laws and regulations.

6. INDEMNITY

Permittee shall save, hold harmless, indemnify, and defend the State of New Mexico, the Commissioner and Commissioner's employees, agents and contractors, in both their official and individual capacities, from any and all liability, claims, losses, damages, or expenses of any character or nature whatsoever, including but not limited to attorney's fees, court costs, loss of land value or use, third party claims, penalties, or removal, remedial or restoration costs arising out of, or alleged to arise out of Permittee's operations or presence on the Premises (or operations or presence of his representatives, employees, or contractors).

7. SURVIVAL OF TERMS

Permittee's obligations regarding indemnity, site conditions, and compliance with applicable standards and laws, shall survive the termination, cancellation or relinquishment of this Agreement, and any cause of action of the Commissioner to enforce any right, liability, claim, loss, damage or expense under those paragraphs shall not be deemed to accrue until the Commissioner's actual discovery of said right, liability, claim, loss, damage or expense.

8. NOTIFICATION

Permittee must notify the State Land Office immediately in the event Permittee or his representatives, employees, or contractors observe any spill, fire, or other emergency on the Premises, or if Permittee or his representatives, employees, or contractors experience any serious injury while on the Premises.

Received by OCD: 9/18/2025 7:44:40 AM

Released to Imaging: 11/5/2025 11:02:30 AM

WITNESS the hands of PERMITTEE and COMMISSIONER on the day(s) and year entered below.

PERMITTEE SIGNATURE

DATE: 8/11/2025

Jason Touchet

EHS Specialist

PERMITTEE NAME AND TITLE (PRINT)

SEAL:

Received by OCD: 9/18/2025 7:44:40 AM

Stephanie Garcia Richard Commissioner of Public Lands

DATE:



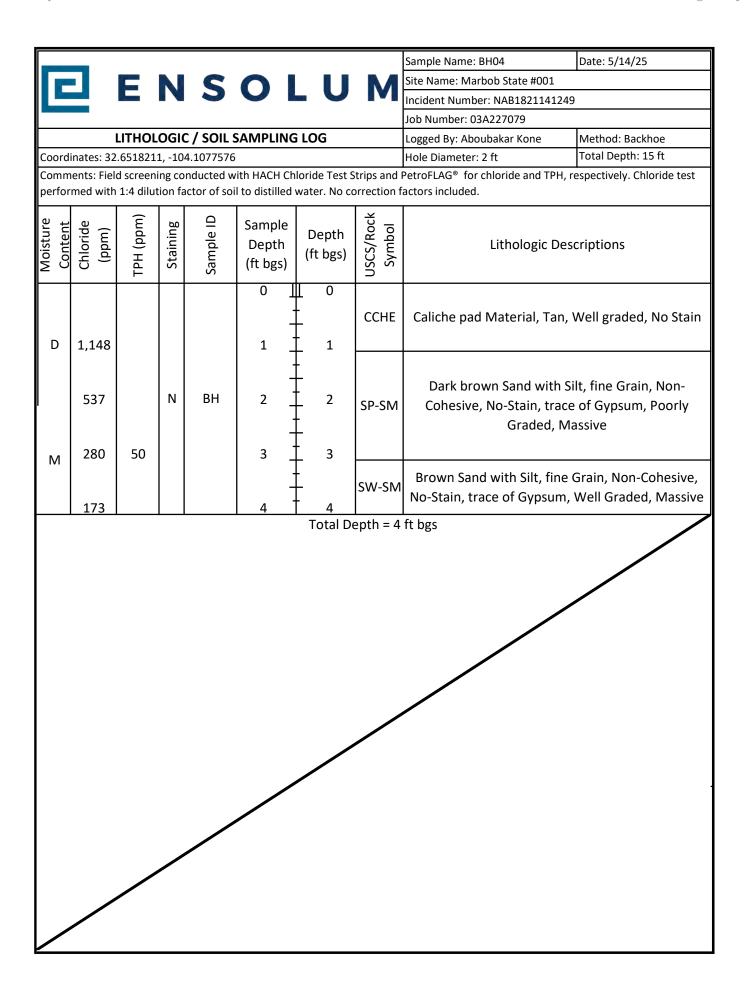
APPENDIX E

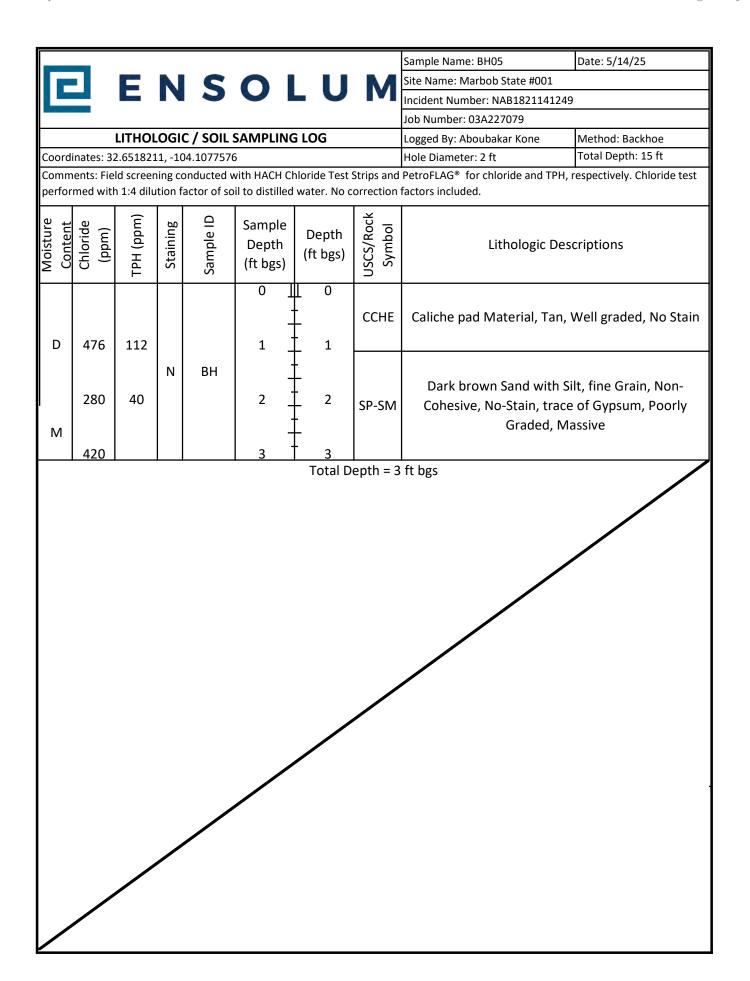
Lithologic Soil Sampling Logs

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								Job Number: 03A227079						
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			_			ID for chloride and vapor, respect actors included.	ively. Chloride test							
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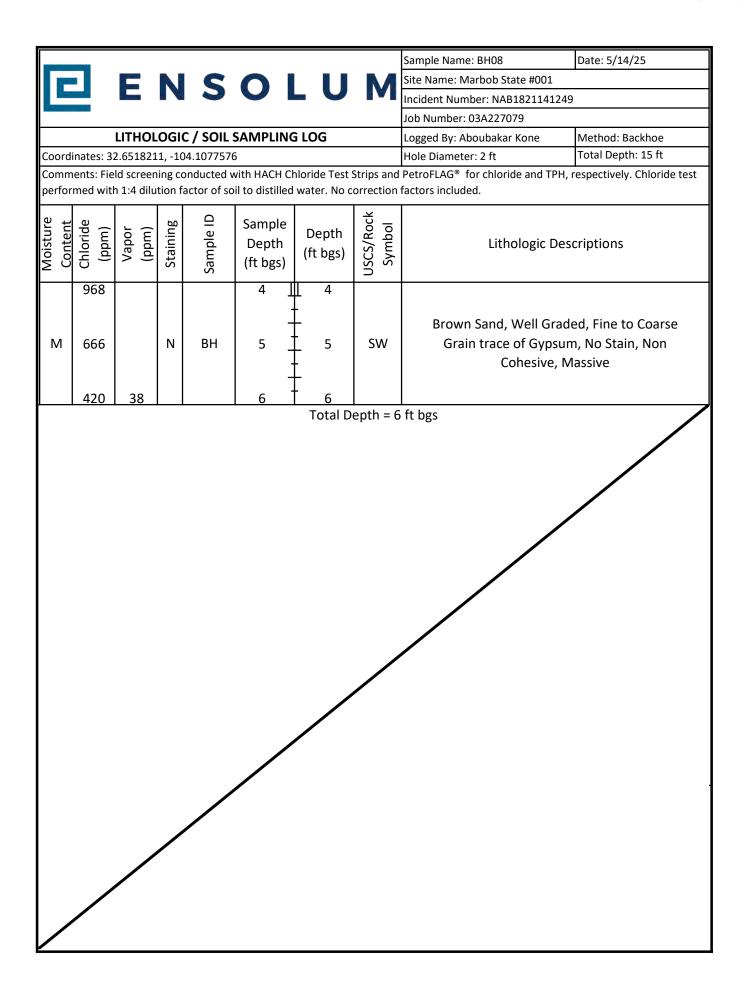
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ENSOLUM								Incident Number: NAB1821141249			
						Job Number: 03A227079					
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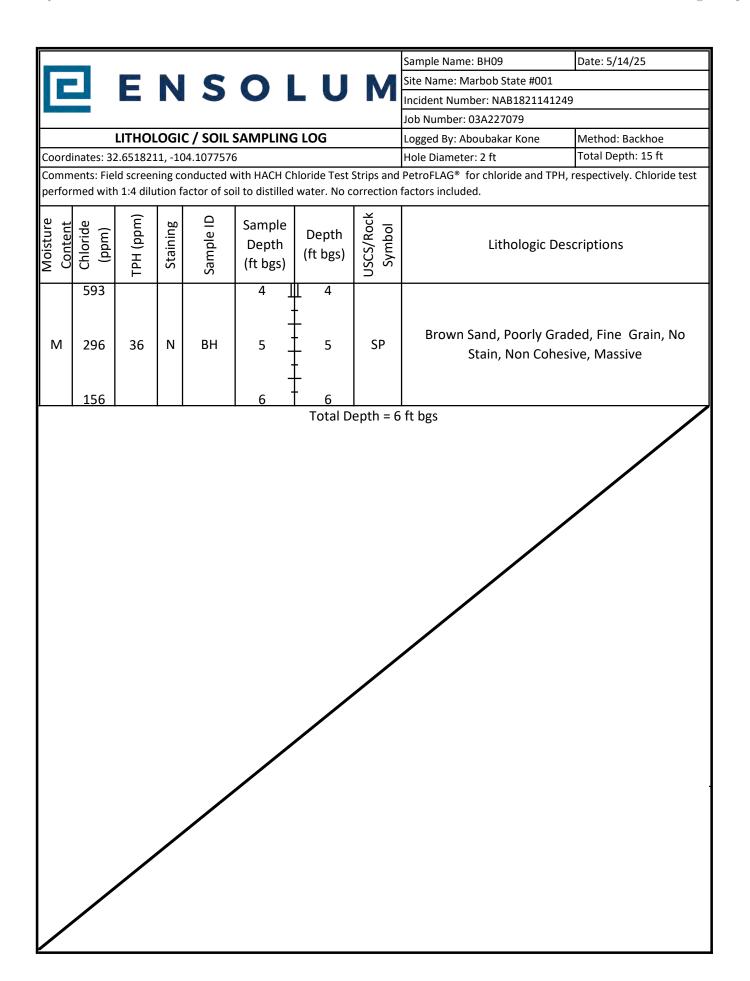
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					0 1	0 - -	ССНЕ	Caliche pad Material, Tan,	Well graded, No Stain					
D	1,338								1 _ - 2	- 1 - - 2	SW-	Well Graded Light Brown S Grain, Non Cohesive, Mass gypsur	ive, No Stain, Trace of	
1	2,167 2,027 N BH	ВН	3 - 4 - 5	3 - - - - - - -	SW	Well Graded Light Brown Sand, Fine to Coarse Grain, Non Plastic, Massive, Non Stain, Trace o Gypsum								
М	1,545 1,148									6	_ 5 - - _ 6	SW-SM	Well Graded Brown San Cohesive, Massive, Non St	· · · · · · · · · · · · · · · · · · ·
	968					7 _	- - - 7	SM	Dark Brown Clayey Sand, T Plastic, No Stair	• • • • • • • • • • • • • • • • • • • •				
	739			8 <u>-</u> 8 <u>-</u>	- - - 8 - 8	СН	Dark Brown Sandy Clay, W No-Stain, High Plasticity	•						
<u> </u>	ND	45			10	10	<u> </u>							
	Total depth = 10 ft bgs													

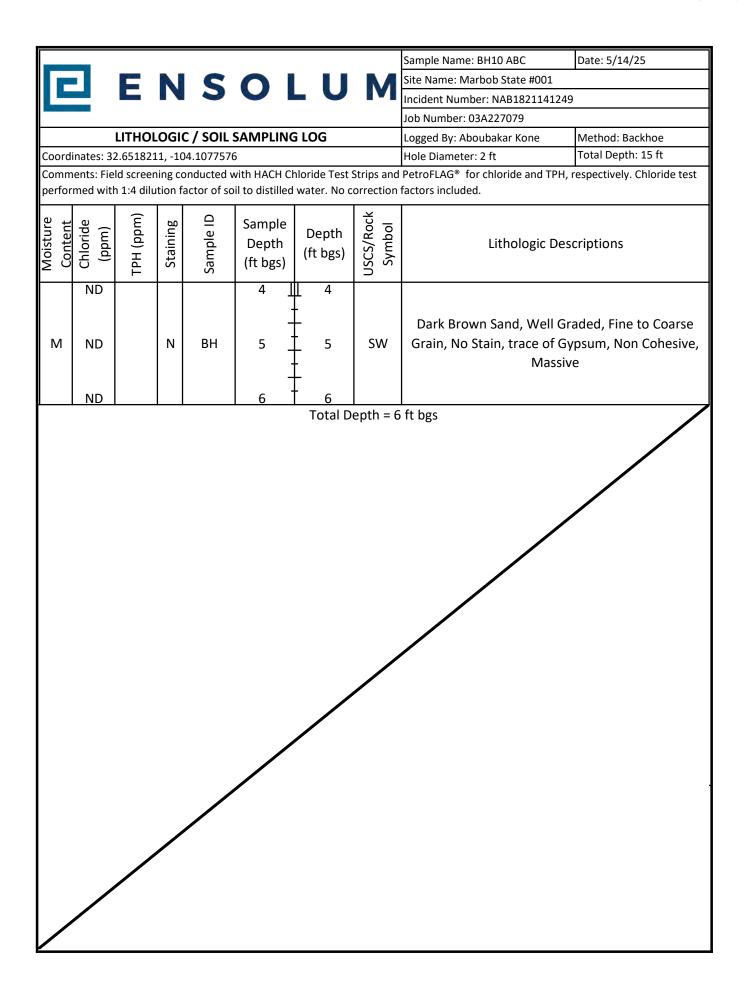




_	-							Sample Name: BH06	Date: 5/16/25	
L ENSOLUM								Site Name: Marbob State #001 SWD		
								Incident Number: nAB1821141249		
								Job Number: 03A227079		
					SAMPLING		Logged By: Aboubakar Kone	Method: Backhoe		
	inates: 32					Hole Diameter: 2'	Total Depth: 11'			
			_			factors included.	TPH, respectively. Chloride test			
Moisture Content	Content Chloride (ppm) TPH (ppm) Samble ID Sample ID Debth (tt pds) USCS/Rock Symbol						Lithologic Descriptions			
D			N	BH06	0]	0	CCHE		an, Well graded, No Stain,	
D	1,338		N	BH06	1	1	CCITE	Trace o	f Gypsum	
D	1,148		N	ВН06	2	2	SW-SM	_	vn Sand, Fine to Medium e, Massive, Non Stain	
М	1,148		N	вно6	3	3	SW	Well Graded Light Brown Sand, Fine to Coars Grain, Non Plastic, Massive, Non Stain, Trace Gypsum		
M M	1,439 1,148		N N	BH06	4 <u>-</u> - - 5	4				
M	1,657		N	вно6	6 _	6	SW-SM		Sand, Fine Grain, Non n Stain, Trace of Gypsum	
М	1,237		N	ВН06	7 <u>-</u>	7	SM	• •	Gypsum, Non Plastic, No Massive	
М	812		N	вно6	8 <u>-</u> 8 <u>-</u>	8	СН		ay, Trace of gypsum, No Stain, Massive	
M	1,058		N	ВН06	9 _	9		Doorly Croded Fire Bra	uun Cond. Non Disstic. No	
М	476	74	N	ВН06	10	10	SP	•	wn Sand, Non Plastic, No Massive	
М	207		Ν	BH06	11	11		· · ·		
M	207		N	BH06		11 Total Dep	th @ 11		ividssive	









APPENDIX F

Photographic Log

ENSOLUM

Photographic Log

Matador Production Company
Marbob State #001
Incident Number NAB1821141249





Photograph 1 Date: 04/29/2025

Description: Delineation Soil Sampling Activites

View: North

Photograph 2 Date: 04/29/2025 Description: Delineation Soil Sampling Activites

View: North





Photograph 3 Date: 04/29/2025

Description: Delineation Soil Sampling Activites

View: South

Photograph 4 Date: 04/29/2025

Description: Delineation Soil Sampling Activites

View: South



Photographic Log

Matador Production Company
Marbob State #001
Incident Number NAB1821141249





Photograph 5 Date: 04/30/2025

Description: Delineation Soil Sampling Activites

View: North

Photograph 6 Date: 04/30/2025 Description: Delineation Soil Sampling Activites

View: Wesr





Photograph 7 Date: 04/30/2025

Description: Delineation Soil Sampling Activites

View: North

Photograph 8 Date: 04/30/2025

Description: Delineation Soil Sampling Activites

View: West



Photographic Log Matador Production Company Marbob State #001

Incident Number NAB1821141249





Photograph 9 Date: 05/01/2025

Description: Delineation Soil Sampling Activites

View: North

Photograph 10 Date: 05/14/2025 Description: Delineation Soil Sampling Activites

View: West





Photograph 11 Date: 05/14/2025

Description: Delineation Soil Sampling Activites

View: West

Photograph 12 Date: 05/15/2025

Description: Delineation Soil Sampling Activites

View: Northeast



Photographic Log

Matador Production Company
Marbob State #001
Incident Number NAB1821141249





Photograph 13 Date: 05/15/2025

Description: Delineation Soil Sampling Activites

View: Southwest

Photograph 14 Date: 05/16/2025 Description: Delineation Soil Sampling Activites

View: Northeast





Photograph 15 Date: 05/16/2025

Description: Delineation Soil Sampling Activites

View: Northeast

Photograph 16 Date: 05/16/2025

Description: Delineation Soil Sampling Activites

View: North

ENSOLUM

Photographic Log

Matador Production Company
Marbob State #001
Incident Number NAB1821141249





Photograph 17 Date: 05/16/2025

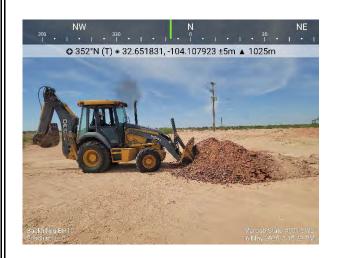
Description: Delineation Soil Sampling Activites

View: North

Photograph 18 Date: 05/16/2025 Description: Delineation Soil Sampling Activites

View: Southwest





Photograph 19 Date: 05/16/2025

Description: Delineation Soil Sampling Activites

View: Northeast

Photograph 20 Date: 05/16/2025

Description: Delineation Soil Sampling Activites

View: North

ENSOLUM

Photographic Log

Matador Production Company
Marbob State #001
Incident Number NAB1821141249





Photograph 21 Date: 05/20/2025

Description: Delineation Soil Sampling Activites

View: Southeast

Photograph 22 Date: 05/20/2025 Description: Delineation Soil Sampling Activites

View: Southwest





Photograph 23 Date: 05/20/2025

Description: Delineation Soil Sampling Activites

View: East

Photograph 24 Date: 04/29/2025

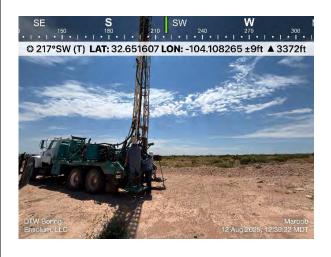
Description: Delineation Soil Sampling Activites

View: East



Photographic Log

Matador Production Company
Marbob State #001
Incident Number NAB1821141249





Photograph 25 Date: 08/12/2025

Description: Depth to Water Boring

View: Southwest

Photograph 26 Date: 08/12/2025

Description: Depth to Water Boring

View: East





Photograph 27 Date: 08/12/2025

Description: Depth to Water Boring

View: Northeast

Photograph 28 Date: 05/15/2025

Description: Depth to Water Measurement

View: East



Photographic Log

Matador Production Company
Marbob State #001
Incident Number NAB1821141249





Photograph 29 Date: 08/27/2025

Description: Delineation Soil Sampling

View: North

Photograph 30 Date: 08/27/2025

Description: Delineation Soil Sampling

View: North





Photograph 31 Date: 08/27/2025

Description: Delineation Soil Sampling

View: Northeast

Photograph 32 Date: 08/27/2025

Description: Delineation Soil Sampling

View: Northeast



Photographic Log

Matador Production Company
Marbob State #001
Incident Number NAB1821141249





Photograph 33

Date: 09/09/2025

Photograph 34

Description: Off-Pad Vegetation

Description: Off-Pad Vegetation

View: South

View: Southeast





Photograph 35

Date: 09/09/2025

Photograph 36

Date: 09/09/2025

Date: 09/09/2025

Description: Off-Pad Vegetation

Description: Off-Pad Vegetation

View: Northeast

View: Northwest



APPENDIX G

Laboratory Analytical Reports & Chain-of-Custody Documentation

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Marbob State 001 SWD

Work Order: E505009

Job Number: 23003-0002

Received: 5/2/2025

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 5/7/25

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: 5/7/25

Ashley Giovengo 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240

Project Name: Marbob State 001 SWD

Workorder: E505009

Date Received: 5/2/2025 7:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/2/2025 7:00:00AM, under the Project Name: Marbob State 001 SWD.

The analytical test results summarized in this report with the Project Name: Marbob State 001 SWD 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 reguarding 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

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe

Laboratory Technical Representative Office: 505-421-LABS(5227)

Cell: 505-320-4759

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Michelle Gonzales

Client Representative

Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Chain of Custody etc.	12

Sample Summary

Γ	Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	Donoutodi
ı	5400 LBJ Freeway, Suite 1500	uite 1500 Project Number:		Reported:
l	Dallas TX, 75240	Project Manager:	Ashley Giovengo	05/07/25 10:40

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS05-0'	E505009-01A	Soil	04/30/25	05/02/25	Glass Jar, 2 oz.
SS05-1'	E505009-02A	Soil	04/30/25	05/02/25	Glass Jar, 2 oz.



Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/7/2025 10:40:04AM

SS05-0'

E505009-01

	Reporting				
Result	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analyst	: SL		Batch: 2518103
ND	0.0250	1	05/02/25	05/02/25	
ND	0.0250	1	05/02/25	05/02/25	
ND	0.0250	1	05/02/25	05/02/25	
ND	0.0250	1	05/02/25	05/02/25	
ND	0.0500	1	05/02/25	05/02/25	
ND	0.0250	1	05/02/25	05/02/25	
	84.3 %	70-130	05/02/25	05/02/25	
mg/kg	mg/kg	Analyst	: SL		Batch: 2518103
ND	20.0	1	05/02/25	05/02/25	
	94.6 %	70-130	05/02/25	05/02/25	
mg/kg	94.6 % mg/kg	70-130 Analyst		05/02/25	Batch: 2518101
mg/kg ND				05/02/25 05/02/25	Batch: 2518101
	mg/kg		: KH		Batch: 2518101
ND	mg/kg 25.0		: KH 05/02/25	05/02/25	Batch: 2518101
ND	mg/kg 25.0 50.0	Analyst 1 1	05/02/25 05/02/25 05/02/25	05/02/25 05/02/25	Batch: 2518101 Batch: 2518107
	mg/kg ND ND ND ND ND ND ND MD ND ND	mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 ND 0.0250 MD 0.0250 MD mg/kg	Result Limit Dilution mg/kg mg/kg Analyst ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 70-130 mg/kg mg/kg Analyst	Result Limit Dilution Prepared mg/kg mg/kg Analyst: SL ND 0.0250 1 05/02/25 ND 0.0250 1 05/02/25 ND 0.0250 1 05/02/25 ND 0.0250 1 05/02/25 ND 0.0500 1 05/02/25 ND 0.0250 1 05/02/25 ND 0.0250 1 05/02/25 84.3 % 70-130 05/02/25 mg/kg mg/kg Analyst: SL	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: SL ND 0.0250 1 05/02/25 05/02/25 ND 0.0500 1 05/02/25 05/02/25 ND 0.0250 1 05/02/25 05/02/25 ND 0.0250 1 05/02/25 05/02/25 84.3 % 70-130 05/02/25 05/02/25 mg/kg mg/kg Analyst: SL

Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/7/2025 10:40:04AM

SS05-1'

E505009-02

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: SL		Batch: 2518103
Benzene	ND	0.0250	1	05/02/25	05/02/25	
Ethylbenzene	ND	0.0250	1	05/02/25	05/02/25	
Toluene	ND	0.0250	1	05/02/25	05/02/25	
o-Xylene	ND	0.0250	1	05/02/25	05/02/25	
p,m-Xylene	ND	0.0500	1	05/02/25	05/02/25	
Total Xylenes	ND	0.0250	1	05/02/25	05/02/25	
Surrogate: 4-Bromochlorobenzene-PID		83.5 %	70-130	05/02/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: SL		Batch: 2518103
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/02/25	05/02/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.7 %	70-130	05/02/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KH		Batch: 2518101
Diesel Range Organics (C10-C28)	ND	25.0	1	05/02/25	05/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/02/25	05/02/25	
Surrogate: n-Nonane		94.2 %	61-141	05/02/25	05/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2518107



QC Summary Data

Marbob State 001 SWD Matador Resources, LLC. Project Name: Reported: 5400 LBJ Freeway, Suite 1500 Project Number: 23003-0002 Dallas TX, 75240 Project Manager: Ashley Giovengo 5/7/2025 10:40:04AM **Volatile Organics by EPA 8021B** Analyst: SL Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2518103-BLK1) Prepared: 05/02/25 Analyzed: 05/02/25 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 6.73 8.00 84.1 70-130 LCS (2518103-BS1) Prepared: 05/02/25 Analyzed: 05/02/25 4.79 5.00 95.8 70-130 Benzene 0.0250 Ethylbenzene 5.39 0.0250 5.00 108 70-130 5.22 0.0250 5.00 104 70-130 Toluene 5.37 107 o-Xylene 0.0250 5.00 70-130 10.9 10.0 109 70-130 0.0500 p.m-Xvlene 108 70-130 16.3 15.0 Total Xylenes 0.0250 8.00 85.4 70-130 Surrogate: 4-Bromochlorobenzene-PID 6.84 Matrix Spike (2518103-MS1) Source: E505007-02 Prepared: 05/02/25 Analyzed: 05/02/25 4.64 0.0250 5.00 ND 70-130 Benzene ND 70-130 Ethylbenzene 5.18 0.0250 5.00 104 Toluene 5.02 0.0250 5.00 ND 100 70-130 ND 103 70-130 5.16 5.00 0.0250 o-Xylene p,m-Xylene 10.5 0.0500 10.0 ND 105 70-130 0.0250 15.0 ND 70-130 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 6.88 8.00 Matrix Spike Dup (2518103-MSD1) Source: E505007-02 Prepared: 05/02/25 Analyzed: 05/02/25 4.65 0.0250 5.00 ND 70-130 0.170 27 ND 70-130 0.0858 5.19 0.0250 5.00 104 26 Ethylbenzene



5.02

5.17

10.5

15.7

6.72

0.0250

0.0250

0.0500

0.0250

5.00

5.00

10.0

15.0

8.00

ND

ND

ND

ND

100

103

105

104

84.0

70-130

70-130

70-130

70-130

70-130

0.124

0.250

0.252

0.00

20

25

23

26

Toluene

o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

Surrogate: 1-Chloro-4-fluorobenzene-FID

7.78

QC Summary Data

Matador Resources, LLC.Project Name:Marbob State 001 SWDReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo5/7/2025 10:40:04AM

Dallas TX, 75240		Project Manage	r: As	shley Gioveng	go			5/	7/2025 10:40:04AM
	Nor	halogenated	Organics l	by EPA 80	15D - G	RO			Analyst: SL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2518103-BLK1)							Prepared: 0	5/02/25 Ana	lyzed: 05/02/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.53		8.00		94.2	70-130			
LCS (2518103-BS2)							Prepared: 0	5/02/25 Ana	lyzed: 05/02/25
Gasoline Range Organics (C6-C10)	44.9	20.0	50.0		89.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.9	70-130			
Matrix Spike (2518103-MS2)				Source:	E505007-	02	Prepared: 0	5/02/25 Ana	lyzed: 05/02/25
Gasoline Range Organics (C6-C10)	44.9	20.0	50.0	ND	89.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.62		8.00		95.2	70-130			
Matrix Spike Dup (2518103-MSD2)				Source:	E505007-	02	Prepared: 0	5/02/25 Ana	lyzed: 05/02/25
Gasoline Range Organics (C6-C10)	49.1	20.0	50.0	ND	98.3	70-130	9.00	20	

97.2

70-130

QC Summary Data

Matador Resources, LLC.Project Name:Marbob State 001 SWDReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo5/7/2025 10:40:04AM

Danas 1X, 73240		1 Toject Wanage	1. 710	mey Gloveng	50				7772023 10:10:01711
	Nonha	logenated Or	ganics by	EPA 8015I	O - DRO	ORO/			Analyst: KH
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2518101-BLK1)							Prepared: 0	5/02/25 Ana	alyzed: 05/02/25
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.3		50.0		92.6	61-141			
LCS (2518101-BS1)							Prepared: 0	5/02/25 Ana	alyzed: 05/02/25
Diesel Range Organics (C10-C28)	249	25.0	250		99.6	66-144			
Surrogate: n-Nonane	47.1		50.0		94.2	61-141			
Matrix Spike (2518101-MS1)				Source:	E505013-0	03	Prepared: 0	5/02/25 Ana	alyzed: 05/02/25
Diesel Range Organics (C10-C28)	254	25.0	250	ND	102	56-156			
Surrogate: n-Nonane	46.6		50.0		93.2	61-141			
Matrix Spike Dup (2518101-MSD1)				Source:	E505013-0	03	Prepared: 0	5/02/25 Ana	alyzed: 05/02/25
Diesel Range Organics (C10-C28)	255	25.0	250	ND	102	56-156	0.496	20	
Surrogate: n-Nonane	45.4		50.0		90.9	61-141			

Chloride

Chloride

Matrix Spike Dup (2518107-MSD1)

QC Summary Data

Matador Resources, LLC. 5400 LBI Freeway, Suite 1500	Iatador Resources, LLC. Project Name: Marb 400 LBJ Freeway, Suite 1500 Project Number: 2300						Reported:				
Dallas TX, 75240		Project Manager		shley Gioveng	go			:	5/7/2025 10:40:04AM		
	Analyst: DT										
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes		
Blank (2518107-BLK1)							Prepared: 0	5/02/25 An	nalyzed: 05/02/25		
Chloride	ND	20.0									
LCS (2518107-BS1)							Prepared: 0	5/02/25 An	nalyzed: 05/02/25		
Chloride	255	20.0	250		102	90-110					
Matrix Spike (2518107-MS1)				Source:	E505007-	01	Prepared: 0	5/02/25 Analyzed: 05/02/25			

250

250

20.0

20.0

74.1

74.1

94.1

103

Source: E505007-01

80-120

80-120

6.76

Prepared: 05/02/25 Analyzed: 05/02/25

20

309

331

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

I	Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
I	5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
l	Dallas TX, 75240	Project Manager:	Ashley Giovengo	05/07/25 10:40

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



alytic	al Laborat	ory																				
	Clie	nt Inform	nation		Inv	oice Information					La	b Us	e On	ly				TA	AT		Stat	e
	Natador Prod				Company: Ens			1	Lab \	WO#			Job I	Num	ber		1D	2D	3D Std	NΝ	1 CO UT	TX
	lame: Marbo					National Parks Hy		_ [E 5	50E	500	1	23	003	000	1			x	×		1 4 1
	Manager: Asl					Carlsbad NM, 88	220	-1	-			-									DA Deserve	
	3122 Nation te, Zip: Carls				Phone: 575-9								Ana	19515 6	and N	iviet	noa			SDWA	PA Progr CWA	RCRA
	575-988-005		88220		Miscellaneous:	engo@ensolum.co	m	-												JUVA	CWA	NCNA
	giovengo@e		om		Wiscenarieous.					S	ın									Complia	nce Y	or N
	A. S. C. C.									801	8015	-		0.	×	sis				PWSID #	-	
				Sample Info	rmation					30 by	30 by	802	8260	e 300	XT - 20	Meta		MM	×	क व		10.1
Time ampled	Date Sampled	Containers		Sample ID		Field	Lat Num	b ber	DRO/ORO by 8015	GRO/DRO by	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005	RCRA 8 Metals		BGDOC - NM	BGDOC - TX	Samle Temp	Rei	marks	
9:21	4/30/2025	S	1		SS05 - 0'			1										x		3.9		
9:26	4/30/2025	S	1		SS05 - 1'			2	- 8									x		3.7		
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			ase CC: c	burton@ensolum	.com, agiovengo	@ensolum.com, ie	strella	@ens	olun	n.co	m, ch	nami	lton(@ens	solun	n.cor	m, o	aderi	nto@en	solum.co	m,	
	ensolum.cor pler), attest to the		d authenticit	y of this sample. I am av	vare that tampering with	or intentionally mislabel	ing the sa	mple loc	cation	, date	or time	e of co	llectio	n is co	nsidere	d frau	d and	may b	e grounds fo	r legal actio	ń.	
	:Oluwale Ade			1	T-0	MA D M	0		0	_					1							
	ed by: (Signatur	Ado	orinto	5/1/25	08:15	deceived by delien	ture):	JAMES MI	4 2 20	100 m	Date 5-	1.	25)	C	80	15)	pre		requiring t must be r	hermal eceived or
linguish	ed by: (Signatur	ph Janz	ales	5-1-25	1630	Received by: Signa	ture)				Date	1.7	2		Time	63	2					ampled or
			Time 23/5	Received by: (Signa	ture)	no			Date	Hig	.25	5	Time	N	7			THE REAL PROPERTY.	ut less tha equent da			
linquish	ed by: (Signatur	e)		Date	Time	Received by: (Signa	iture)				Date	6			Time						Use Onl	
linguish	ed by: (Signatur	e)		Date	Time	Received by: (Signa	iture)				Date	-			Time			-			eived on i	ce:
																				Q/::		
	trix: S - Soil, Sd - S				other arrangements	are made. Hazardous s													- VOA	or the ana	vsis of the	ahove

Note: Samples are discarded 14 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 aboratory is limited to the amount paid for on the report.

envirotech Inc.

Printed: 5/2/2025 8:51:27AM

Envirotech Analytical Laboratory

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 Resources, LLC.	Date Received:	05/02/25	07:00	Work Order ID:	E505009
Phone:	(972) 371-5200	Date Logged In:	05/01/25	15:26	Logged In By:	Caitlin Mars
Email:	agiovengo@ensolum.com	Due Date:	05/08/25	17:00 (4 day TAT)		
Chain of	Custody (COC)					
	he sample ID match the COC?		Yes			
	he number of samples per sampling site location ma	itch the COC	Yes			
	amples dropped off by client or carrier?		Yes	Carrier: Courier		
	e COC complete, i.e., signatures, dates/times, reque	ested analyses?	Yes			
5. Were a	Ill samples received within holding time? Note: Analysis, such as pH which should be conducted i.e, 15 minute hold time, are not included in this disucss	•	Yes		Comment	ts/Resolution
Sample 7	<u>Furn Around Time (TAT)</u>					
	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample (<u>Cooler</u>					
7. Was a	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was th	e sample(s) received intact, i.e., not broken?		Yes			
	custody/security seals present?		No			
	, were custody/security seals intact?					
			NA			
	ne sample received on ice? Note: Thermal preservation is not required, if samples a 15 minutes of sampling COC for individual sample temps. Samples outside		Yes			
		of 0 C-0 C will be	recorded	in comments.		
	Container 1 (2)		3.7			
	queous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?	0	NA			
	on-VOC samples collected in the correct container		Yes			
	appropriate volume/weight or number of sample conta	iners collected?	Yes			
Field La						
	field sample labels filled out with the minimum infample ID?	ormation:	Yes			
	Pate/Time Collected?		Yes			
	Collectors name?		Yes			
Sample I	Preservation_		103			
_	the COC or field labels indicate the samples were p	reserved?	No			
	ample(s) correctly preserved?		NA			
	filtration required and/or requested for dissolved m	netals?	No			
Multinha	ase Sample Matrix					
	the sample have more than one phase, i.e., multiph	ase?	No			
	, does the COC specify which phase(s) is to be ana		NA			
		,, 2001	11/1			
	ract Laboratory	0	NT.			
	amples required to get sent to a subcontract laborate a subcontract laboratory specified by the client and	-	No NA	Subcontract Lab: NA		
Client I	nstruction					
						_

Date

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

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Marbob State 001 SWD

Work Order: E505010

Job Number: 23003-0002

Received: 5/2/2025

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 5/7/25

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: 5/7/25

Ashley Giovengo 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240

Project Name: Marbob State 001 SWD

Workorder: E505010

Date Received: 5/2/2025 7:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/2/2025 7:00:00AM, under the Project Name: Marbob State 001 SWD.

The analytical test results summarized in this report with the Project Name: Marbob State 001 SWD 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 reguarding 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

Raina Schwanz

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Client Representative

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Sample Summary

	Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	Donoutodi
١	5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
l	Dallas TX, 75240	Project Manager:	Ashley Giovengo	05/07/25 14:03

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
SS03-0'	E505010-01A Soil	04/30/25	05/02/25	Glass Jar, 2 oz.
SS03-1'	E505010-02A Soil	04/30/25	05/02/25	Glass Jar, 2 oz.



Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/7/2025 2:03:08PM

SS03-0'

E505010-01

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: SL		Batch: 2518103
Benzene	ND	0.0250	1	05/02/25	05/02/25	
Ethylbenzene	ND	0.0250	1	05/02/25	05/02/25	
Toluene	ND	0.0250	1	05/02/25	05/02/25	
o-Xylene	ND	0.0250	1	05/02/25	05/02/25	
p,m-Xylene	ND	0.0500	1	05/02/25	05/02/25	
Total Xylenes	ND	0.0250	1	05/02/25	05/02/25	
Surrogate: 4-Bromochlorobenzene-PID		84.7 %	70-130	05/02/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: SL		Batch: 2518103
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/02/25	05/02/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.5 %	70-130	05/02/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: NV		Batch: 2519002
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/25	05/05/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/05/25	05/05/25	
Surrogate: n-Nonane		94.7 %	61-141	05/05/25	05/05/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: DT		Batch: 2518107
Chloride	383	20.0	1	05/02/25	05/02/25	



Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/7/2025 2:03:08PM

SS03-1'

E505010-02

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: SL		Batch: 2518103
Benzene	ND	0.0250	1	05/02/25	05/02/25	
Ethylbenzene	ND	0.0250	1	05/02/25	05/02/25	
Toluene	ND	0.0250	1	05/02/25	05/02/25	
o-Xylene	ND	0.0250	1	05/02/25	05/02/25	
p,m-Xylene	ND	0.0500	1	05/02/25	05/02/25	
Total Xylenes	ND	0.0250	1	05/02/25	05/02/25	
Surrogate: 4-Bromochlorobenzene-PID		84.6 %	70-130	05/02/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: SL		Batch: 2518103
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/02/25	05/02/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.5 %	70-130	05/02/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: NV		Batch: 2519002
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/25	05/05/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/05/25	05/05/25	
Surrogate: n-Nonane		94.5 %	61-141	05/05/25	05/05/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: DT		Batch: 2518107
	328	20.0	-	05/02/25	05/02/25	•



QC Summary Data

Marbob State 001 SWD Matador Resources, LLC. Project Name: Reported: 5400 LBJ Freeway, Suite 1500 Project Number: 23003-0002 Dallas TX, 75240 Project Manager: Ashley Giovengo 5/7/2025 2:03:08PM **Volatile Organics by EPA 8021B** Analyst: SL Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2518103-BLK1) Prepared: 05/02/25 Analyzed: 05/02/25 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 6.73 8.00 84.1 70-130 LCS (2518103-BS1) Prepared: 05/02/25 Analyzed: 05/02/25 4.79 5.00 95.8 70-130 Benzene 0.0250 Ethylbenzene 5.39 0.0250 5.00 108 70-130 5.22 0.0250 5.00 104 70-130 Toluene 5.37 107 o-Xylene 0.0250 5.00 70-130 10.9 10.0 109 70-130 0.0500 p.m-Xvlene 108 70-130 16.3 15.0 Total Xylenes 0.0250 8.00 85.4 70-130 Surrogate: 4-Bromochlorobenzene-PID 6.84 Matrix Spike (2518103-MS1) Source: E505007-02 Prepared: 05/02/25 Analyzed: 05/02/25 4.64 0.0250 5.00 ND 70-130 Benzene ND 104 70-130 Ethylbenzene 5.18 0.0250 5.00 Toluene 5.02 0.0250 5.00 ND 100 70-130 ND 103 70-130 5.16 5.00 0.0250 o-Xylene p,m-Xylene 10.5 0.0500 10.0 ND 105 70-130 0.0250 15.0 ND 70-130 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 6.88 8.00 Matrix Spike Dup (2518103-MSD1) Source: E505007-02 Prepared: 05/02/25 Analyzed: 05/02/25 4.65 0.0250 5.00 ND 70-130 0.170 27 ND 70-130 0.0858 5.19 0.0250 5.00 104 26 Ethylbenzene Toluene 5.02 0.0250 5.00 ND 100 70-130 0.124 20

5.00

10.0

15.0

8.00

0.0250

0.0500

0.0250

ND

ND

ND

103

105

104

84.0

70-130

70-130

70-130

70-130

0.250

0.252

0.00

25

23

26



o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

5.17

10.5

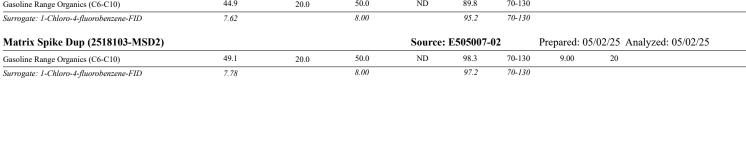
15.7

6.72

QC Summary Data

Matador Resources, LLC.Project Name:Marbob State 001 SWDReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo5/7/20252:03:08PM

Dallas TX, 75240		Project Manager	r: As	shley Gioveng	go				5/7/2025 2:03:08PM
	Non	Nonhalogenated Organics by EPA 8015D - GRO							
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes
						,,,			110103
Blank (2518103-BLK1)							Prepared: 0	5/02/25 Ar	nalyzed: 05/02/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.53		8.00		94.2	70-130			
LCS (2518103-BS2)							Prepared: 0	5/02/25 Ar	nalyzed: 05/02/25
Gasoline Range Organics (C6-C10)	44.9	20.0	50.0		89.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.9	70-130			
Matrix Spike (2518103-MS2)				Source:	E505007-	02	Prepared: 0	5/02/25 Ar	alyzed: 05/02/25
Gasoline Range Organics (C6-C10)	44.9	20.0	50.0	ND	89.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.62		8.00		95.2	70-130			



QC Summary Data

Marbob State 001 SWD Matador Resources, LLC. Project Name: Reported: 5400 LBJ Freeway, Suite 1500 Project Number: 23003-0002 Dallas TX, 75240 Project Manager: 5/7/2025 2:03:08PM Ashley Giovengo

Dallas TX, /5240		Project Manage	r: As	sniey Giovenş	go				3///2023 2:03:08PN
	Nonha	logenated Or	ganics by l	EPA 80151	D - DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2519002-BLK1)							Prepared: 0	5/05/25	Analyzed: 05/05/25
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.6		50.0		97.2	61-141			
LCS (2519002-BS1)							Prepared: 0	5/05/25	Analyzed: 05/05/25
Diesel Range Organics (C10-C28)	255	25.0	250		102	66-144			
Surrogate: n-Nonane	48.6		50.0		97.1	61-141			
Matrix Spike (2519002-MS1)				Source:	E505020-	05	Prepared: 0	5/05/25	Analyzed: 05/05/25
Diesel Range Organics (C10-C28)	347	25.0	250	39.7	123	56-156			
Surrogate: n-Nonane	56.4		50.0		113	61-141			
Matrix Spike Dup (2519002-MSD1)				Source:	E505020-	05	Prepared: 0	5/05/25	Analyzed: 05/05/25
Diesel Range Organics (C10-C28)	340	25.0	250	39.7	120	56-156	1.99	20	
Surrogate: n-Nonane	54.4		50.0		109	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500		Project Name: Project Number:		arbob State 00 3003-0002	01 SWD				Reported:
Dallas TX, 75240		Project Manager		shley Gioveng	go				5/7/2025 2:03:08PM
		Anions	by EPA 3	300.0/9056 <i>E</i>	4				Analyst: DT
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2518107-BLK1)							Prepared: 0)5/02/25 A	nalyzed: 05/02/25
Chloride	ND	20.0							
LCS (2518107-BS1)							Prepared: 0	05/02/25 A	nalyzed: 05/02/25
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2518107-MS1)				Source:	E505007-0	01	Prepared: 0	05/02/25 A	nalyzed: 05/02/25
Chloride	309	20.0	250	74.1	94.1	80-120			
Matrix Spike Dup (2518107-MSD1)				Source:	E505007-0	01	Prepared: 0)5/02/25 A	nalyzed: 05/02/25
Chloride	331	20.0	250	74.1	103	80-120	6.76	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

l	Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
I	5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
l	Dallas TX, 75240	Project Manager:	Ashley Giovengo	05/07/25 14:03

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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





Released to Imaging: 11/5/2025 11:02:30 AM

nalytic	al Laborat	ory																				
	Clier	nt Inform	nation		Inve	oice Information					Lal	b Us	e On	ly				TA	AT		State	e
Client: N	Natador Prod	uction C	ompany		Company: Ens	olum LLC		L	Lab W	VO#			Job N	lum	ber		1D	2D	3D Std	NM	CO UT	TX
	lame: Marbo					National Parks Hwy			E51			2	73	003	.00			5	х	x		
Project N	Manager: Ash	nley Giov	rengo		City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055				-00001				120000 00-20									
Address:	3122 Nation	nal Parks	Hwy										Ana	lysis	and	Met	hod			EI	A Progra	am
City, Stat	e, Zip: Carls	bad NM,	88220		Email: agiove	engo@ensolum.com							77							SDWA	CWA	RCRA
hone:	575-988-005	5			Miscellaneous:																	
mail: a	giovengo@ei	nsolum.c	com							15	15									Complian	ce Y	or N
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			A TOTAL	Sample Info	rmation		_			ROb	RO b	y 80.	826	e 30	- 50	Me		NN.	×	e de		
Time Sampled	Date Sampled	Matrix	No. of Containers		Sample ID		Field	Lat Numb	b ber	DRO/ORO by 8015	GRO/DRO by	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005 - TX	RCRA 8 Metals		BGDOC - NM	BGDOC - TX	Samle Temp	Ren	narks
11:19	4/30/2025	S	1		SS03 - 0'			1										x	TI E	2.5		
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	pler), attest to the :Oluwale Ade		d authenticity	of this sample. I am a	vare that tampering with	or intentionally mislabeling		mple loc	cation,	date	or time	of co	llection	is co	nsidere	d frau	d and	may b	e grounds for	legal action		
	ed by: (Signatur		ito	Date 05/01/25	08:15	Received by: (Signati	G	one	ale	e,	Date 5	-1-	25	5	Time (36	15				equiring t	
	ed by: (Signatur		enlec	Date 5-1-25	1630	Received by: (Signate	V.				Date S .		-		Time	16	30)			hey are sa ked on ice	
Relinquish	ed by: Signatur	9		Date 5./.25	7318	Received by: (Signati	ure)	211-	_		Date	2.	25	-	Time	100)		a		t less than	
Relinquish	ed by: (Signatur	e)		Date	Time	Received by: (Signate	ure)	24	1	-	Date				Time	-				Lab	Use Onl	У
																				Rece	ived on id	ce:
Relinquish	ed by: (Signatur	e)		Date	Time	Received by: (Signat	ure)				Date				Time					(ΨN	
Sample Ma	trix: S - Soil, Sd - S	olid, Sg - Slu	idge, A - Aque	ous, O - Other			Con	tainer	Type	: g -	glass,	p - p	oly/p	lasti	c, ag	- amb	er gl	ass, v	- VOA			
					other arrangements	are made. Hazardous sai														or the analy	sis of the a	bove

Note: Samples are discarded 14 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 Inc.

Printed: 5/2/2025 8:53:18AM

Envirotech Analytical Laboratory

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 Resources, LLC.	Date Received:	05/02/25	07:00		Work Order ID:	E505010
Phone:	(972) 371-5200	Date Logged In:	05/01/25	15:28		Logged In By:	Caitlin Mars
Email:	agiovengo@ensolum.com	Due Date:	05/08/25	17:00 (4 day	TAT)		
Chain of	Custody (COC)						
1. Does t	he sample ID match the COC?		Yes				
2. Does t	he number of samples per sampling site location ma	atch the COC	Yes				
3. Were s	amples dropped off by client or carrier?		Yes	Car	rrier: Courier		
4. Was th	e COC complete, i.e., signatures, dates/times, reque	ested analyses?	Yes				
5. Were a	ill samples received within holding time?		Yes				
	Note: Analysis, such as pH which should be conducted i.e, 15 minute hold time, are not included in this disucss	•				Commen	ts/Resolution
Sample 7	<u> [urn Around Time (TAT)</u>						
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes				
Sample (<u>Cooler</u>						
7. Was a	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was th	e 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 th	ne sample received on ice?		Yes				
	Note: Thermal preservation is not required, if samples a	re received within	105				
	15 minutes of sampling						
13. See C	COC for individual sample temps. Samples outside of	of 0°C-6°C will be	recorded	in commen	its.		
	Container_						
	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	a trip blank (TB) included for VOC analyses?		NA				
18. Are n	on-VOC samples collected in the correct containers	s?	Yes				
19. Is the	appropriate volume/weight or number of sample conta	iners collected?	Yes				
Field La							
	field sample labels filled out with the minimum inf	formation:	**				
	ample ID? Date/Time Collected?		Yes				
	Collectors name?		Yes Yes				
	Preservation		168				
	the COC or field labels indicate the samples were p	oreserved?	No				
	ample(s) correctly preserved?		NA				
	filtration required and/or requested for dissolved m	netals?	No				
	ase Sample Matrix		-				
	the sample have more than one phase, i.e., multipha	ase?	No				
	, does the COC specify which phase(s) is to be anal		NA				
•		lyzed.	INA				
	ract Laboratory		3.7				
	amples required to get sent to a subcontract laborate	-	No				
29. Was a	a subcontract laboratory specified by the client and	if so who?	NA	Subcontra	act Lab: NA		
Client I	<u>nstruction</u>						
1							
1							
Ц							

Date

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

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Marbob State 001 SWD

Work Order: E505021

Job Number: 23003-0002

Received: 5/5/2025

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 5/8/25

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: 5/8/25

Ashley Giovengo 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240

Project Name: Marbob State 001 SWD

Workorder: E505021

Date Received: 5/5/2025 7:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/5/2025 7:45:00AM, under the Project Name: Marbob State 001 SWD.

The analytical test results summarized in this report with the Project Name: Marbob State 001 SWD 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 reguarding 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

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

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Client Representative

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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Γ	Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	Donoutoda
ı	5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
l	Dallas TX, 75240	Project Manager:	Ashley Giovengo	05/08/25 08:38

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
BH01-0'	E505021-01A Soil	05/01/25	05/05/25	Glass Jar, 2 oz.
BH01-1'	E505021-02A Soil	05/01/25	05/05/25	Glass Jar, 2 oz.
BH01-1.5'	E505021-03A Soil	05/01/25	05/05/25	Glass Jar, 2 oz.



Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/8/2025 8:38:59AM

BH01-0' E505021-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: SL		Batch: 2519008
Benzene	ND	0.0250	1	05/05/25	05/05/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/05/25	
Toluene	ND	0.0250	1	05/05/25	05/05/25	
o-Xylene	ND	0.0250	1	05/05/25	05/05/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/05/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/05/25	
Surrogate: 4-Bromochlorobenzene-PID		88.4 %	70-130	05/05/25	05/05/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2519008
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/05/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.4 %	70-130	05/05/25	05/05/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2519004
Diesel Range Organics (C10-C28)	119	25.0	1	05/05/25	05/05/25	
Oil Range Organics (C28-C36)	72.7	50.0	1	05/05/25	05/05/25	
Surrogate: n-Nonane		93.4 %	61-141	05/05/25	05/05/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: JM		Batch: 2519014
Chloride	18300	200	10	05/05/25	05/05/25	

Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/8/2025 8:38:59AM

BH01-1'

E505021-02

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: SL		Batch: 2519008
Benzene	ND	0.0250	1	05/05/25	05/05/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/05/25	
Toluene	ND	0.0250	1	05/05/25	05/05/25	
o-Xylene	ND	0.0250	1	05/05/25	05/05/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/05/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/05/25	
Surrogate: 4-Bromochlorobenzene-PID		89.7 %	70-130	05/05/25	05/05/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: SL		Batch: 2519008
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/05/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.9 %	70-130	05/05/25	05/05/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: NV		Batch: 2519004
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/25	05/05/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/05/25	05/05/25	
Surrogate: n-Nonane		97.9 %	61-141	05/05/25	05/05/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: JM		Batch: 2519014
·	3500	100	5	05/05/25	05/05/25	•



Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/8/2025 8:38:59AM

BH01-1.5'

		E505021-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: SL		Batch: 2519008
Benzene	ND	0.0250	1	05/05/25	05/05/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/05/25	
Toluene	ND	0.0250	1	05/05/25	05/05/25	
o-Xylene	ND	0.0250	1	05/05/25	05/05/25	
o,m-Xylene	ND	0.0500	1	05/05/25	05/05/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/05/25	
Surrogate: 4-Bromochlorobenzene-PID		90.1 %	70-130	05/05/25	05/05/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2519008
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/05/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.7 %	70-130	05/05/25	05/05/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2519004
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/25	05/05/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/05/25	05/05/25	
Surrogate: n-Nonane		97.5 %	61-141	05/05/25	05/05/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: JM		Batch: 2519014
Chloride	2540	40.0	2	05/05/25	05/05/25	



Toluene

o-Xylene

p,m-Xylene

Total Xylenes

QC Summary Data

Marbob State 001 SWD Matador Resources, LLC. Project Name: Reported: Project Number: 23003-0002 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 Project Manager: Ashley Giovengo 5/8/2025 8:38:59AM **Volatile Organics by EPA 8021B** Analyst: SL Spike Source RPD Reporting Rec Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Blank (2519008-BLK1) Prepared: 05/05/25 Analyzed: 05/06/25 ND 0.0250 ND Ethylbenzene 0.0250

Surrogate: 4-Bromochlorobenzene-PID	6.90		8.00	86.3	70-130	
LCS (2519008-BS1)						Prepared: 05/05/25 Analyzed: 05/05/25
Benzene	5.19	0.0250	5.00	104	70-130	
Ethylbenzene	5.15	0.0250	5.00	103	70-130	
Toluene	5.19	0.0250	5.00	104	70-130	
o-Xylene	5.11	0.0250	5.00	102	70-130	
p,m-Xylene	10.4	0.0500	10.0	104	70-130	
Total Xylenes	15.5	0.0250	15.0	104	70-130	
Surrogate: 4-Rromochlorobenzene-PID	7 21		8.00	90.1	70-130	

ND

ND

ND

ND

0.0250

0.0250

0.0500

0.0250

Matrix Spike (2519008-MS1)				Source:	E505019-	04	Prepared: 05/05/25 Analyzed: 05/05/25
Benzene	5.36	0.0250	5.00	ND	107	70-130	
Ethylbenzene	5.32	0.0250	5.00	ND	106	70-130	
Toluene	5.35	0.0250	5.00	ND	107	70-130	
o-Xylene	5.25	0.0250	5.00	ND	105	70-130	
o,m-Xylene	10.8	0.0500	10.0	ND	108	70-130	
Total Xylenes	16.0	0.0250	15.0	ND	107	70-130	
Surrogate: 4-Bromochlorobenzene-PID	6.94		8.00		86.7	70-130	

Matrix Spike Dup (2519008-MSD1)				Source:	E505019-	04	Prepared: 05	5/05/25 Analyzed: 05/05/25
Benzene	5.28	0.0250	5.00	ND	106	70-130	1.55	27
Ethylbenzene	5.23	0.0250	5.00	ND	105	70-130	1.79	26
Toluene	5.26	0.0250	5.00	ND	105	70-130	1.66	20
o-Xylene	5.17	0.0250	5.00	ND	103	70-130	1.72	25
p,m-Xylene	10.6	0.0500	10.0	ND	106	70-130	1.72	23
Total Xylenes	15.7	0.0250	15.0	ND	105	70-130	1.72	26
Surrogate: 4-Bromochlorobenzene-PID	6.75		8.00		84.4	70-130		

Gasoline Range Organics (C6-C10)

Surrogate: 1-Chloro-4-fluorobenzene-FID

44.6

7.89

20.0

QC Summary Data

Matador Resources, LLC.Project Name:Marbob State 001 SWDReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo5/8/20258:38:59AM

	Analyst: SL								
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2519008-BLK1)							Prepared: 0:	5/05/25 Anal	yzed: 05/06/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.8	70-130			
LCS (2519008-BS2)							Prepared: 0:	5/05/25 Anal	yzed: 05/05/25
Gasoline Range Organics (C6-C10)	44.6	20.0	50.0		89.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.75		8.00		96.8	70-130			
Matrix Spike (2519008-MS2)				Source:	E505019-	04	Prepared: 0	5/05/25 Anal	yzed: 05/05/25
Gasoline Range Organics (C6-C10)	44.1	20.0	50.0	ND	88.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.79		8.00		97.3	70-130			
Matrix Spike Dup (2519008-MSD2)				Source:	E505019-)4	Prepared: 0:	5/05/25 Anal	yzed: 05/05/25

50.0

8.00

ND

89.2

98.6

70-130

70-130

1.14

20

QC Summary Data

Matador Resources, LLC.Project Name:Marbob State 001 SWDReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo5/8/20258:38:59AM

Bullus 171, 732 10		1 Toject Wanage	. 710	iney Groveng	-				
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2519004-BLK1)							Prepared: 0	5/05/25 A	nalyzed: 05/05/25
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.1		50.0		94.1	61-141			
LCS (2519004-BS1)							Prepared: 0	5/05/25 A	analyzed: 05/05/25
Diesel Range Organics (C10-C28)	251	25.0	250		100	66-144			
Surrogate: n-Nonane	46.4		50.0		92.9	61-141			
Matrix Spike (2519004-MS1)				Source:	E505022-	02	Prepared: 0	5/05/25 A	analyzed: 05/05/25
Diesel Range Organics (C10-C28)	262	25.0	250	ND	105	56-156			
Surrogate: n-Nonane	48.0		50.0		95.9	61-141			
Matrix Spike Dup (2519004-MSD1)				Source:	E505022-0	02	Prepared: 0	5/05/25 A	analyzed: 05/05/25
Diesel Range Organics (C10-C28)	263	25.0	250	ND	105	56-156	0.409	20	
Surrogate: n-Nonane	48.6		50.0		97.1	61-141			

Matrix Spike (2519014-MS1)

Matrix Spike Dup (2519014-MSD1)

Chloride

Chloride

301

298

Prepared: 05/05/25 Analyzed: 05/05/25

Prepared: 05/05/25 Analyzed: 05/05/25

20

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500		Project Name: Project Number:	-	Marbob State 0	01 SWD				Reported:
Dallas TX, 75240		Project Manager		Ashley Gioveng	go				5/8/2025 8:38:59AM
		Anions	by EPA	300. 0/9056 <i>A</i>	4				Analyst: JM
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2519014-BLK1)							Prepared: 0	5/05/25 A	analyzed: 05/05/25
Chloride	ND	20.0							
LCS (2519014-BS1)							Prepared: 0	5/05/25 A	nalyzed: 05/05/25
Chloride	252	20.0	250		101	90-110			

250

250

20.0

20.0

Source: E505017-01

Source: E505017-01

104

103

80-120

80-120

1.21

40.5

40.5

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 Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	05/08/25 08:38

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



	Clien	nt Inform	nation	Invoice Inform	mation			La	b Use	Only				TA	AT		St
Client:	Matador Prod	luction C	ompany	Company: Ensolum LLC		Lab	WO#			ob Nu	mbei		1D	2D	3D Sto	NM	col
Project	Name: Marbo	ob State	001 SWD	Address: 3122 National I	Parks Hwy	ES	SOR	DZ	1 :	2300	30	20			х	х	1
Project	Manager: Asl	nley Giov	rengo	City, State, Zip: Carlsbad	NM, 88220												
Address	: 3122 Nation	nal Parks	Hwy	Phone: 575-988-0055						Analys	is an	d Me	thod			E	PA Pro
City, Sta	ite, Zip: Carls	bad NM,	88220	Email: agiovengo@ens	olum.com											SDWA	CW
Phone:	575-988-005	5		Miscellaneous:													
Email:	agiovengo@e	nsolum.c	om				215	8015		H),		W.				Compliar	
-			Sam	ple Information			by 8015	by 80	021	097	×	etals		Σ		PWSID #	
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter PN	ab mber	DRO/ORO	GRO/DRO by	BTEX by 8021	VOC by 8260	XT-500 1005 - TX	RCRA 8 Metals		BGDOC - NM	BGDOC - TX	Samle Temp	F
13:41	5/1/2025	S	1	BH01 - 0'	118	1								х		36	
13:50	5/1/2025	S	1	BH01 - 1'	1	?								х		34	
14:08	5/1/2025	S	1	BH01 - 1.5'	3	2								X		2.8	
			4 12														
			1 1								-	1	-				-
-									-			-	-	-			
							H			+			-				
								235		+			-				-
							-		_	_	-	-	-	-			-

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

Relinquished by: (Signature)	Date	Time	Regeived by: (Signature) Whitele Gonzales	5.2.25	O711	Samples requiring thermal preservation must be received or
Relinquished By: (Stanature) Relinquished by: (Signature)	8 5-2.25	Time 1745	Received by (Signature)	3 · 2 · 25	Time 1745	ice the day they are sampled o received packed on ice at a tem above 0 but less than 6°C on
(Signature)	5.2.23	2343	Carth ma	55.25	754	subsequent days.
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only
		1	A STATE OF THE STA			Received on ice:
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Ø N

Note: Samples are discarded 14 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 Inc.

Printed: 5/5/2025 9:20:58AM

Envirotech Analytical Laboratory

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 Resources, LLC.	Date Received:	05/05/25	07:45	Work Order ID:	E505021
Phone:	(972) 371-5200	Date Logged In:	05/02/25	15:28	Logged In By:	Noe Soto
Email:	agiovengo@ensolum.com	Due Date:	05/09/25	17:00 (4 day TAT)		
~ .	10.1.1.4000					
	f Custody (COC)		••			
	the sample ID match the COC?	oh the COC	Yes			
	the number of samples per sampling site location man	ich the COC	Yes			
	samples dropped off by client or carrier?	-4- 4 19	Yes Yes	Carrier: Courier		
	ne COC complete, i.e., signatures, dates/times, reques	sted analyses?				
5. were a	all samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion.		Yes		<u>Comment</u>	ts/Resolution
	<u> Turn Around Time (TAT)</u>					
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample						
	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was th	ne sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If yes	s, were custody/security seals intact?		NA			
	he sample received on ice? Note: Thermal preservation is not required, if samples are 15 minutes of sampling		Yes	:		
	COC for individual sample temps. Samples outside o	10 C-6 C will be	recorded	in comments.		
	Container VOC1		».T			
	aqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA NA			
	e head space less than 6-8 mm (pea sized or less)?		NA NA			
	a trip blank (TB) included for VOC analyses?	1	NA			
	non-VOC samples collected in the correct containers		Yes			
	appropriate volume/weight or number of sample contain	ters collected?	Yes			
Field La						
	field sample labels filled out with the minimum info Sample ID?	rmation:	Yes			
	Date/Time Collected?		Yes			
	Collectors name?		Yes			
Sample :	Preservation					
21. Does	the COC or field labels indicate the samples were pr	eserved?	No			
22. Are s	sample(s) correctly preserved?		NA			
24. Is lab	filtration required and/or requested for dissolved me	etals?	No			
Multiph	ase Sample Matrix					
26. Does	the sample have more than one phase, i.e., multipha	se?	No			
27. If yes	s, does the COC specify which phase(s) is to be analy	zed?	NA			
Subcont	ract Laboratory					
	samples required to get sent to a subcontract laborato	rv9	No			
	a subcontract laboratory specified by the client and it	•	NA	Subcontract Lab: NA		
Client I	<u>nstruction</u>					

Date

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

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Marbob State 001 SWD

Work Order: E505022

Job Number: 23003-0002

Received: 5/5/2025

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 5/8/25

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: 5/8/25

Ashley Giovengo 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240

Project Name: Marbob State 001 SWD

Workorder: E505022

Date Received: 5/5/2025 7:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/5/2025 7:45:00AM, under the Project Name: Marbob State 001 SWD.

The analytical test results summarized in this report with the Project Name: Marbob State 001 SWD 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 reguarding 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

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

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Michelle Gonzales

Client Representative

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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Γ	Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	Donoutoda
١	5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
l	Dallas TX, 75240	Project Manager:	Ashley Giovengo	05/08/25 08:42

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
SS01-0'	E505022-01A Soil	05/01/25	05/05/25	Glass Jar, 2 oz.
SS01-1'	E505022-02A Soil	05/01/25	05/05/25	Glass Jar, 2 oz.
SS02-0'	E505022-03A Soil	05/01/25	05/05/25	Glass Jar, 2 oz.



Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/8/2025 8:42:43AM

SS01-0'

E505022-01

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	llyst: SL		Batch: 2519012
Benzene	ND	0.0250	1	05/05/25	05/06/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/06/25	
Toluene	ND	0.0250	1	05/05/25	05/06/25	
o-Xylene	ND	0.0250	1	05/05/25	05/06/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/06/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/06/25	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	05/05/25	05/06/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	llyst: SL		Batch: 2519012
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/06/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.7 %	70-130	05/05/25	05/06/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2519004
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/25	05/05/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/05/25	05/05/25	
Surrogate: n-Nonane		95.5 %	61-141	05/05/25	05/05/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	Analyst: DT		Batch: 2519007
Chloride	131	20.0	1	05/05/25	05/05/25	

Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/8/2025 8:42:43AM

SS01-1'

E505	022-02
	D

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: SL		Batch: 2519012
Benzene	ND	0.0250	1	05/05/25	05/06/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/06/25	
Toluene	ND	0.0250	1	05/05/25	05/06/25	
o-Xylene	ND	0.0250	1	05/05/25	05/06/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/06/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/06/25	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	05/05/25	05/06/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2519012
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/06/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.4 %	70-130	05/05/25	05/06/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2519004
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/25	05/05/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/05/25	05/05/25	
Surrogate: n-Nonane		95.0 %	61-141	05/05/25	05/05/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2519007
Chloride	26.8	20.0	1	05/05/25	05/05/25	



Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/8/2025 8:42:43AM

SS02-0'

E505	'A22	0.3
11.7117		.11 1

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: SL		Batch: 2519012
Benzene	ND	0.0250	1	05/05/25	05/06/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/06/25	
Toluene	ND	0.0250	1	05/05/25	05/06/25	
o-Xylene	ND	0.0250	1	05/05/25	05/06/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/06/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/06/25	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	05/05/25	05/06/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: SL		Batch: 2519012
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/06/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.9 %	70-130	05/05/25	05/06/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: NV		Batch: 2519004
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/25	05/05/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/05/25	05/05/25	
Surrogate: n-Nonane		93.7 %	61-141	05/05/25	05/05/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: DT		Batch: 2519007
Chloride	45.4	20.0	1	05/05/25	05/05/25	



o-Xylene

p,m-Xylene

Total Xylenes

QC Summary Data

Marbob State 001 SWD Matador Resources, LLC. Project Name: Reported: 5400 LBJ Freeway, Suite 1500 Project Number: 23003-0002 Dallas TX, 75240 Project Manager: Ashley Giovengo 5/8/2025 8:42:43AM **Volatile Organics by EPA 8021B** Analyst: SL Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Blank (2519012-BLK1) Prepared: 05/05/25 Analyzed: 05/06/25 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND 0.0250 o-Xylene ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 8.21 8.00 103 70-130 LCS (2519012-BS1) Prepared: 05/05/25 Analyzed: 05/06/25 4.34 5.00 86.9 70-130 0.0250 Benzene Ethylbenzene 4.26 0.0250 5.00 85.2 70-130 70-130 4.33 0.0250 5.00 86.6 Toluene 86.0 o-Xylene 4.30 0.0250 5.00 70-130 8.52 10.0 85.2 70-130 0.0500 p.m-Xvlene 85.5 70-130 12.8 0.0250 15.0 Total Xylenes 8.00 102 70-130 Surrogate: 4-Bromochlorobenzene-PID 8.14 Matrix Spike (2519012-MS1) Source: E505023-02 Prepared: 05/05/25 Analyzed: 05/06/25 Benzene 3.84 0.0250 5.00 ND 70-130 70-130 ND 76.7 Ethylbenzene 3.83 0.0250 5.00 Toluene 3.87 0.0250 5.00 ND 77.3 70-130

Total Atylenes		0.0230							
Surrogate: 4-Bromochlorobenzene-PID	7.87		8.00		98.3	70-130			
Matrix Spike Dup (2519012-MSD1)				Source:	E505023-	02	Prepared: 0:	5/05/25 Analyzed: 05/	/06/25
Benzene	4.20	0.0250	5.00	ND	83.9	70-130	8.92	27	
Ethylbenzene	4.17	0.0250	5.00	ND	83.4	70-130	8.36	26	
Toluene	4.21	0.0250	5.00	ND	84.1	70-130	8.45	20	
o-Xylene	4.19	0.0250	5.00	ND	83.8	70-130	7.63	25	
p,m-Xylene	8.36	0.0500	10.0	ND	83.6	70-130	8.14	23	
Total Xylenes	12.6	0.0250	15.0	ND	83.7	70-130	7.97	26	
Surrogate: 4-Bromochlorobenzene-PID	8.14		8.00		102	70-130			

5.00

10.0

15.0

0.0250

0.0500

0.0250

ND

ND

ND

77.6

77.1

77.3

70-130

70-130

70-130

3.88

7.71



Gasoline Range Organics (C6-C10)

QC Summary Data

Marbob State 001 SWD Matador Resources, LLC. Project Name: Reported: 5400 LBJ Freeway, Suite 1500 23003-0002 Project Number: Dallas TX, 75240 5/8/2025 8:42:43AM Project Manager: Ashley Giovengo

Dalias 1A, /3240		Project Manage	r: As	sniey Gioveng	go			3/6	6/2023 6:42:43AW
	Non	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
Blank (2519012-BLK1)							Prepared: 0	5/05/25 Analy	yzed: 05/06/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		8.00		96.2	70-130			
LCS (2519012-BS2)							Prepared: 0	5/05/25 Analy	yzed: 05/06/25
Gasoline Range Organics (C6-C10)	48.7	20.0	50.0		97.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.75		8.00		96.8	70-130			
Matrix Spike (2519012-MS2)				Source:	E505023-	02	Prepared: 0	5/05/25 Analy	yzed: 05/06/25

Surrogate: 1-Chloro-4-fluorobenzene-FID	8.11		8.00		101	70-130			
Matrix Spike Dup (2519012-MSD2)				Source:	E505023-0	02	Prepared: 05	5/05/25 Analyzed: 05/06/25	
Gasoline Range Organics (C6-C10)	49.5	20.0	50.0	ND	98.9	70-130	0.891	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.94		8.00		99.3	70-130			

70-130

20.0

QC Summary Data

Matador Resources, LLC.Project Name:Marbob State 001 SWDReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo5/8/20258:42:43AM

Dullus 171, 752 10		r roject ivianage.	. 710	iney Groveng	-				
	Nonhalogenated Organics by EPA 8015D - DRO/ORO						Analyst: NV		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2519004-BLK1)							Prepared: 0:	5/05/25 Anal	yzed: 05/05/25
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.1		50.0		94.1	61-141			
LCS (2519004-BS1)							Prepared: 0:	5/05/25 Anal	yzed: 05/05/25
Diesel Range Organics (C10-C28)	251	25.0	250		100	66-144			
Surrogate: n-Nonane	46.4		50.0		92.9	61-141			
Matrix Spike (2519004-MS1)				Source:	E505022-	02	Prepared: 0	5/05/25 Anal	yzed: 05/05/25
Diesel Range Organics (C10-C28)	262	25.0	250	ND	105	56-156			
Surrogate: n-Nonane	48.0		50.0		95.9	61-141			
Matrix Spike Dup (2519004-MSD1)				Source:	E505022-0	02	Prepared: 0:	5/05/25 Anal	yzed: 05/05/25
Diesel Range Organics (C10-C28)	263	25.0	250	ND	105	56-156	0.409	20	
Surrogate: n-Nonane	48.6		50.0		97.1	61-141			

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500	Project Name: Project Number:	Marbob State 001 SWD 23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/8/2025 8:42:43AM

Anions by EPA 300.0/9056A Analyst: DT							Analyst: DT		
Analyte	Result mg/kg	Reporting Limit	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	70	70	70	70	notes
Blank (2519007-BLK1)							Prepared: 0	5/05/25 Ana	lyzed: 05/05/25
Chloride	ND	20.0							
LCS (2519007-BS1)							Prepared: 0	5/05/25 Ana	lyzed: 05/05/25
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2519007-MS1)				Source:	E505019-	04	Prepared: 0	5/05/25 Ana	lyzed: 05/05/25
Chloride	580	20.0	250	327	101	80-120			
Matrix Spike Dup (2519007-MSD1)				Source:	E505019-	04	Prepared: 0	5/05/25 Ana	lyzed: 05/05/25
Chloride	579	20.0	250	327	101	80-120	0.123	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

l	Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
l	5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
l	Dallas TX, 75240	Project Manager:	Ashley Giovengo	05/08/25 08:42

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



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7	Analytical Laboratory

Project Name: Marbob State 001 SWD Project Manager: Ashley Giovengo Address: 3122 National Parks Hwy City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Analysis and Method EF	CO UT TX PA Program CWA RCRA ce Y or N Remarks
Project Name: Marbob State 001 SWD Project Manager: Ashley Giovengo Address: 3122 National Parks Hwy City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com Miscellaneous: Sample Information Time Sampled Date Sampled Matrix Sampled Matrix Sampled Date Sampled Posts S 1 Sample Information Sample ID Sample ID Sample ID Significant Science Significant S	CWA RCRA
City, State, Zip: Carlsbad NM, 88220	CWA RCRA
City, State, Zip: Carlsbad NM, 88220 Email: agiovengo@ensolum.com Miscellaneous: SDWA Miscellaneous: Sample Information Sampled Date Sampled Matrix Containers Sample Information South Sout	CWA RCRA
Phone: 575-988-0055 Miscellaneous:	ce Y or N
Phone: 575-988-0055 Miscellaneous:	
Sample Date Sampled Matrix Containers Sample Date Sampled Samp	
Sample Date Sampled Matrix Containers Sample Date Sampled Samp	Remarks
9:51 5/1/2025 S 1 SS01-0' 1 X 3.4 9:54 5/1/2025 S 1 SS01-1' 2 X 3.4	Remarks
9:51 5/1/2025 S 1 SS01-0' 1 X 3.4 9:54 5/1/2025 S 1 SS01-1' 2 X 3.4	Remarks
9:51 5/1/2025 S 1 SS01-0' 1 X 3.4 9:54 5/1/2025 S 1 SS01-1' 2 X 3.4	
9:54 5/1/2025 S 1 SS01-1' 2 X 3.4	
3 1 2 30	
9:41 5/1/2025 S 1 SS02-0' 3 3	
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, oaderinto@ensolum.com	n,
bmoir@ensolum.com I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.	
Sampled by:Oluwale Aderinto	
Relinquished by: (Signature) Date Time Received by: (Signature) Date Time Samples re	equiring thermal
Olympile Adexinto 5/2/25 08:15 Muhelle Generales 5-2-25 DES preservation	must be received o
11/11/2016 110 110 110 110 110 110 110 110 110	ney are sampled or sed on ice at a tem
Relinguished by: (Signature) Date Time Received by: (Signature) Date Time above 0 bu	t less than 6°C on
N W	quent days.
	Use Only
	ved on ice: Y)/ N
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA	

envirotech Inc.

Printed: 5/5/2025 9:22:08AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

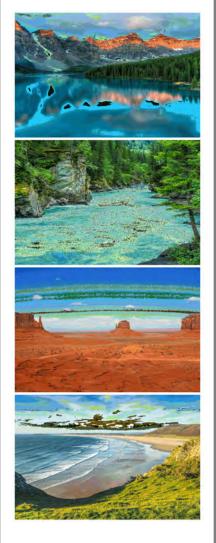
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Phone: (972) 371-5200 Date Logged In: 05/02/25 15:34 Logged In By: Noe Soto Email: agiovengo@ensolum.com Due Date: 05/09/25 17:00 (4 day TAT)	Client: Matador Resources, LLC.	Date Received:	05/05/25 0	7:45	Work Order ID:	E505022
Email: agiovengo@ensolum.com Due Date: 05/09/25 17:00 (4 day TAT) Chain of Custody (COC) 1. Does the sample ID match the COC? 2. Does the number of samples per sampling site location match the COC 3. Were samples dropped off by client or carrier? 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? 5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e. 15 minute hold time, are not included in this disucssion. Sample Turn Around Time (TAT) 6. Did the COC indicate standard TAT, or Expedited TAT? Yes Sample Cooler 7. Was a sample cooler received? 8. If yes, was cooler received in good condition? 9. Was the sample(s) received intact, i.e., not broken? 10. Were custody/security seals present? No 11. If yes, were custody/security seals intact? No 12. Was the sample received on ice? Noi: Thermal preservation is not required, if samples are received within	Phone: (972) 371-5200	Date Logged In:	05/02/25 1	5:34	Logged In By:	Noe Soto
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12. Was the sample received on ice? Yes Note: Thermal preservation is not required, if samples are received within						
Note: Thermal preservation is not required, if samples are received within						
15 minutes of sampling	•	nples are received within	105			
• •	15 minutes of sampling					
13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.	13. See COC for individual sample temps. Samples ou	tside of 0°C-6°C will be	recorded in	n comments.		
Sample Container	·					
14. Are aqueous VOC samples present?						
15. Are VOC samples collected in VOA Vials? NA						
16. Is the head space less than 6-8 mm (pea sized or less)? NA	*	ss)?				
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		containers collected?	Yes			
Field Label						
20. Were field sample labels filled out with the minimum information: Sample ID? Yes		ım ınformation:	Voc			
Date/Time Collected? Yes	•					
Collectors name? Yes						
Sample Preservation	Sample Preservation					
21. Does the COC or field labels indicate the samples were preserved?	21. Does the COC or field labels indicate the samples	were preserved?	No			
22. Are sample(s) correctly preserved?	22. Are sample(s) correctly preserved?		NA			
24. Is lab filtration required and/or requested for dissolved metals?	24. Is lab filtration required and/or requested for dissol	ved metals?	No			
Multiphase Sample Matrix	Multiphase Sample Matrix					
26. Does the sample have more than one phase, i.e., multiphase?	26. Does the sample have more than one phase, i.e., m	ultiphase?	No			
27. If yes, does the COC specify which phase(s) is to be analyzed?	27. If yes, does the COC specify which phase(s) is to b	e analyzed?	NA			
Subcontract Laboratory	Subcontract Laboratory					
28. Are samples required to get sent to a subcontract laboratory? No		boratory?	No			
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA		-	NA	Subcontract Lab: NA		
Client Instruction	Client Instruction					
CHERT HIST DECIDE	CHERT INSTRUCTION					

Date

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

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





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Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Marbob State 001 SWD

Work Order: E505023

Job Number: 23003-0002

Received: 5/5/2025

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 5/8/25

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: 5/8/25

Ashley Giovengo 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240

Project Name: Marbob State 001 SWD

Workorder: E505023

Date Received: 5/5/2025 7:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/5/2025 7:45:00AM, under the Project Name: Marbob State 001 SWD.

The analytical test results summarized in this report with the Project Name: Marbob State 001 SWD 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 reguarding 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

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

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Sample Summary

Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	Donoutode
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	05/08/25 08:45

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
SS04-0'	E505023-01A Soil	05/01/25	05/05/25	Glass Jar, 2 oz.
SS04-1'	E505023-02A Soil	05/01/25	05/05/25	Glass Jar, 2 oz.



Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/8/2025 8:45:24AM

SS04-0'

E505023-01

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: SL		Batch: 2519012
Benzene	ND	0.0250	1	05/05/25	05/06/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/06/25	
Toluene	ND	0.0250	1	05/05/25	05/06/25	
o-Xylene	ND	0.0250	1	05/05/25	05/06/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/06/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/06/25	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	05/05/25	05/06/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	Analyst: SL		Batch: 2519012
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/06/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.1 %	70-130	05/05/25	05/06/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2519004
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/25	05/05/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/05/25	05/05/25	
Surrogate: n-Nonane		94.0 %	61-141	05/05/25	05/05/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: JM		Batch: 2519014
Chloride	98.4	20.0	1	05/05/25	05/05/25	



Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/8/2025 8:45:24AM

SS04-1'

E505023-02

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: SL		Batch: 2519012
Benzene	ND	0.0250	1	05/05/25	05/06/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/06/25	
Toluene	ND	0.0250	1	05/05/25	05/06/25	
o-Xylene	ND	0.0250	1	05/05/25	05/06/25	
o,m-Xylene	ND	0.0500	1	05/05/25	05/06/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/06/25	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	05/05/25	05/06/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: SL		Batch: 2519012
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/06/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.4 %	70-130	05/05/25	05/06/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: NV		Batch: 2519004
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/25	05/06/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/05/25	05/06/25	
Surrogate: n-Nonane		94.1 %	61-141	05/05/25	05/06/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: JM		Batch: 2519014
·	50.0	20.0	•	05/05/25	05/05/25	•



Surrogate: 4-Bromochlorobenzene-PID

Surrogate: 4-Bromochlorobenzene-PID

Ethylbenzene Toluene

o-Xylene

p,m-Xylene

Total Xylenes

Matrix Spike Dup (2519012-MSD1)

7.87

4.20

4.17

4 21

4.19

8.36

12.6

8.14

QC Summary Data

Marbob State 001 SWD Matador Resources, LLC. Project Name: Reported: 5400 LBJ Freeway, Suite 1500 Project Number: 23003-0002 Dallas TX, 75240 Project Manager: Ashley Giovengo 5/8/2025 8:45:24AM **Volatile Organics by EPA 8021B** Analyst: SL Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Blank (2519012-BLK1) Prepared: 05/05/25 Analyzed: 05/06/25 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 8.21 8.00 103 70-130 LCS (2519012-BS1) Prepared: 05/05/25 Analyzed: 05/06/25 4.34 86.9 70-130 5.00 Benzene 0.0250 Ethylbenzene 4.26 0.0250 5.00 85.2 70-130 4.33 0.0250 5.00 86.6 70-130 Toluene o-Xylene 4.30 0.0250 5.00 86.0 70-130 8.52 10.0 85.2 70-130 0.0500 p.m-Xvlene 85.5 70-130 12.8 15.0 Total Xylenes 0.0250 8.00 102 70-130 Surrogate: 4-Bromochlorobenzene-PID 8.14 Matrix Spike (2519012-MS1) Source: E505023-02 Prepared: 05/05/25 Analyzed: 05/06/25 3.84 0.0250 5.00 ND 70-130 Benzene ND 70-130 Ethylbenzene 3.83 0.0250 5.00 76.7 Toluene 3.87 0.0250 5.00 ND 77.3 70-130 3.88 ND 77.6 70-130 5.00 0.0250 o-Xylene p,m-Xylene 7.71 0.0500 10.0 ND 77.1 70-130 0.0250 15.0 ND 70-130 Total Xylenes

8.00

5.00

5.00

5.00

5.00

10.0

15.0

8.00

0.0250

0.0250

0.0250

0.0250

0.0500

0.0250

70-130

70-130

70-130

70-130

70-130

70-130

70-130

70-130

8.92

8.36

8 45

7.63

8.14

7.97

Source: E505023-02

83.9

83.4

84 1

83.8

83.6

83.7

102

ND

ND

ND

ND

ND

ND



Prepared: 05/05/25 Analyzed: 05/06/25

27

26

20

25

23

26

Matrix Spike Dup (2519012-MSD2)

Gasoline Range Organics (C6-C10)

Surrogate: 1-Chloro-4-fluorobenzene-FID

49.5

7.94

20.0

QC Summary Data

Matador Resources, LLC.Project Name:Marbob State 001 SWDReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo5/8/20258:45:24AM

Dallas TX, 75240		Project Manage	r: As	shley Gioveng	go			5/8	8/2025 8:45:24AM
		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
Blank (2519012-BLK1)							Prepared: 0	5/05/25 Anal	yzed: 05/06/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		8.00		96.2	70-130			
LCS (2519012-BS2)							Prepared: 0	5/05/25 Anal	yzed: 05/06/25
Gasoline Range Organics (C6-C10)	48.7	20.0	50.0		97.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.75		8.00		96.8	70-130			
Matrix Spike (2519012-MS2)				Source:	E505023-	02	Prepared: 0	5/05/25 Anal	yzed: 05/06/25
Gasoline Range Organics (C6-C10)	49.0	20.0	50.0	ND	98.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.11		8.00		101	70-130			

50.0

8.00

Source: E505023-02

98.9

99.3

ND



Prepared: 05/05/25 Analyzed: 05/06/25

20

0.891

70-130

70-130

QC Summary Data

Matador Resources, LLC.Project Name:Marbob State 001 SWDReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo5/8/20258:45:24AM

Dullus 171, 752 10		Troject Manage	. 710	mey Groveng	-				
	Nonha		Analyst: NV						
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2519004-BLK1)							Prepared: 0	5/05/25 Anal	yzed: 05/05/25
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.1		50.0		94.1	61-141			
LCS (2519004-BS1)							Prepared: 0	5/05/25 Anal	yzed: 05/05/25
Diesel Range Organics (C10-C28)	251	25.0	250		100	66-144			
Surrogate: n-Nonane	46.4		50.0		92.9	61-141			
Matrix Spike (2519004-MS1)				Source:	E505022-	02	Prepared: 0	5/05/25 Anal	yzed: 05/05/25
Diesel Range Organics (C10-C28)	262	25.0	250	ND	105	56-156			
Surrogate: n-Nonane	48.0		50.0		95.9	61-141			
Matrix Spike Dup (2519004-MSD1)				Source:	E505022-0	02	Prepared: 0	5/05/25 Anal	yzed: 05/05/25
Diesel Range Organics (C10-C28)	263	25.0	250	ND	105	56-156	0.409	20	
Surrogate: n-Nonane	48.6		50.0		97.1	61-141			

Chloride

Chloride

Chloride

Matrix Spike (2519014-MS1)

Matrix Spike Dup (2519014-MSD1)

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number Project Manage	: 2	Marbob State 0 3003-0002 Ashley Gioven			Reported: 5/8/2025 8:45:24AM			
		Anions	by EPA	300.0/9056	A				Analyst: JM
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes
Blank (2519014-BLK1)						F	Prepared: 0	5/05/25 A	Analyzed: 05/05/25
Chloride	ND	20.0							
LCS (2519014-BS1)						F	Prepared: 0	5/05/25 A	Analyzed: 05/05/25

250

250

250

20.0

20.0

20.0

252

301

298

90-110

80-120

80-120

1.21

Prepared: 05/05/25 Analyzed: 05/05/25

Prepared: 05/05/25 Analyzed: 05/05/25

20

101

104

103

Source: E505017-01

Source: E505017-01

40.5

40.5

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

l	Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
l	5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
l	Dallas TX, 75240	Project Manager:	Ashley Giovengo	05/08/25 08:45

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



	Clie	nt Inform	nation		Invoi	ce Information	-				Lab U	se Or	nlv		T		TA	AT		Sta	te
Client: Matador Production Company				Company: Ensolum LLC				Lab WO# _ Job Number				ber	1D 2D 3D Sto			NN	1 co u	ТТХТ			
	Name: Marb					lational Parks Hwy		_ F	4	505023 23003.00			in	7			X	×	100		
_	Manager: As	FREE STREET			Control of the contro	Carlsbad NM, 88220)	_ -		00	00	by	ممر	- 00	الما						1 1
	3122 Natio				Phone: 575-988-0055					_		Ana	lysis	and	Meth	hod				PA Prog	ram
	te, Zip: Carls				127212077 12278 122	go@ensolum.com		-		T		T	11 7 313	1	IVICE	1			SDWA		RCRA
	575-988-005		88220			gowensolum.com	-	-		-1		r i							JUVVA	CVVA	Henry
	giovengo@e				Miscellaneous:														Complia	nce Y	or N
Email: a	giovengowe	nsolum.c	OM			-			510	1	CT C		-		-				PWSID:		OI N
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Time Sampled	Date Sampled	Matrix	No. of Containers		Sample ID			Lab Numb		2000	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005 - TX	RCRA 8 Metals		BGDOC-NM	BGDOC - TX	Samle Temp	, Ne	illark2
12:28	5/1/2025	S	1		SS04 - 0'			1									x		3.6		
12:33	5/1/2025	S	1		SS04 - 1'			1									х		3.4		
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			ase CC: cl	urton@ensolum.	com, agiovengo@	ensolum.com, iesti	ella@	enso	olum.c	om,	cham	ilton	@en	solur	n.cor	n, oa	deri	into@en	solum.co	ım,	
	ensolum.cor pler), attest to the		d authenticity	of this sample. I am awa	are that tampering with o	intentionally mislabeling	he sam	ple loca	ation, da	ite or	time of c	ollectio	n is co	nsider	ed frau	d and	may b	e grounds fo	r legal actio	n.	
Sampled by	:Oluwale Ade	rinto																			
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Relinquish	ed by: (Signatur	re)		Date	Time	Received by: (Signatur	e)			Da	ate			Time						Y) N	
Sample Ma	trix: S - Soil, Sd - S	olid. Se - Slu	dge. A - Aque	ous. O - Other			Conta	ainer T	Type: g	z - gla	ass, p -	poly/	plasti	c, ag	- amb	er gla	ass, v	- VOA			
					ther arrangements are	e made. Hazardous sam													or the ana	ysis of the	above
						oility of the laboratory is															

envirotech Inc.

Printed: 5/5/2025 9:23:19AM

Envirotech Analytical Laboratory

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.

Phone: (972) 371-5200 Date Logged In: 05/02/25 15:38 Logged In By: Noe Soto Email: agiovengo@ensolum.com Due Date: 05/09/25 17:00 (4 day TAT) Does the sample ID match the COC?	Client: Mat	ador Resources, LLC.	Date Received:	05/05/25	07:45	Work Order ID:	E505023
Email: agiovengo@ensolum.com Due Date: 05/09/25 17:00 (4 day TAT) Chain of Custody (COC) 1. Does the sample ID match the COC? 2. Does the number of samples per sampling site location match the COC 3. Were samples dropped off by client or carrier? 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? 5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this dissuession. Sample Turn Around Time (TAT) 6. Did the COC indicate standard TAT, or Expedited TAT? 7. Was a sample cooler 7. Was a sample cooler received? 8. If yes, was cooler received in good condition? 9. Was the sample(s) received intact, i.e., not broken? 10. Were custody/security seals present? No 11. If yes, were custody/security seals intact? No 12. Was the sample received on ice? Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling	Phone: (972	2) 371-5200	Date Logged In:	05/02/25	15:38	Logged In By:	Noe Soto
1. Does the sample ID match the COC? 2. Does the number of samples per sampling site location match the COC 3. Were samples dropped off by client or carrier? 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? 5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this dissussion. Sample Turn Around Time (TAT) 6. Did the COC indicate standard TAT, or Expedited TAT? Yes Sample Cooler 7. Was a sample cooler received? 8. If yes, was cooler received in good condition? 9. Was the sample(s) received intact, i.e., not broken? 10. Were custody/security seals present? Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling	Email: agio	ovengo@ensolum.com		05/09/25	17:00 (4 day TAT)		
1. Does the sample ID match the COC? 2. Does the number of samples per sampling site location match the COC 3. Were samples dropped off by client or carrier? 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? 5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this discussion. Sample Turn Around Time (TAT) 6. Did the COC indicate standard TAT, or Expedited TAT? Yes Sample Cooler 7. Was a sample cooler received? 8. If yes, was cooler received in good condition? 9. Was the sample(s) received intact, i.e., not broken? 10. Were custody/security seals present? Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling							
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10. Were custody/security seals present? 11. If yes, were custody/security seals intact? NA 12. Was the sample received on ice? Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling	8. If yes, was c	cooler received in good condition?		Yes			
11. If yes, were custody/security seals intact? NA 12. Was the sample received on ice? Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling	9. Was the sam	nple(s) received intact, i.e., not broken?		Yes			
11. If yes, were custody/security seals intact? NA 12. Was the sample received on ice? Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling	10. Were custo	ody/security seals present?					
12. Was the sample received on ice? Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling		· · · · · · · · · · · · · · · · · · ·					
Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling	- ·						
• •		•	e received within	105			
12 See COC for individual comple temps. Samples outside of 0°C 6°C will be recorded in comments.							
13. See Coc for individual sample temps. Samples outside of 0 C-0 C with the feet of the Collineans.	13. See COC f	or individual sample temps. Samples outside o	f 0°C-6°C will be	recorded	in comments.		
Sample Container							
14. Are aqueous VOC samples present?	•						
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		priate volume/weight or number of sample contai	ners collected?	Yes			
Field Label							
20. Were field sample labels filled out with the minimum information: Sample ID? Yes		-	ormation:	Vos			
Date/Time Collected? Yes							
Collectors name? Yes							
Sample Preservation	Sample Preser	rvation_					
21. Does the COC or field labels indicate the samples were preserved?	21. Does the C	COC or field labels indicate the samples were p	reserved?	No			
22. Are sample(s) correctly preserved?	22. Are sample	e(s) correctly preserved?		NA			
24. Is lab filtration required and/or requested for dissolved metals?	24. Is lab filtra	tion required and/or requested for dissolved m	etals?	No			
Multiphase Sample Matrix	Multiphase Sa	ample Matrix					
26. Does the sample have more than one phase, i.e., multiphase?	26. Does the sa	ample have more than one phase, i.e., multipha	se?	No			
27. If yes, does the COC specify which phase(s) is to be analyzed?	27. If yes, does	s the COC specify which phase(s) is to be analy	yzed?	NA			
Subcontract Laboratory	Subcontract L	Laboratory					
28. Are samples required to get sent to a subcontract laboratory? No			ry?	No			
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA	_		-	NA	Subcontract Lab: NA		
Client Instruction	Client Instru	ction					
CHERT HISTORIANI	Chent Instru	<u>CHOI</u>					

Date

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

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Marbob State 001 SWD

Work Order: E505175

Job Number: 23003-0002

Received: 5/16/2025

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 5/22/25

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: 5/22/25

Ashley Giovengo 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240

Project Name: Marbob State 001 SWD

Workorder: E505175

Date Received: 5/16/2025 8:30:22AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/16/2025 8:30:22AM, under the Project Name: Marbob State 001 SWD.

The analytical test results summarized in this report with the Project Name: Marbob State 001 SWD 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 reguarding 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

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

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Lynn Jarboe

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Michelle Gonzales

Client Representative

Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	Donoutoda
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	05/22/25 07:56

Client Sample ID	Lab Sample ID Matrix	Sampled Rece	ived Container
BH02-2'	E505175-01A Soil	05/14/25 05/16	6/25 Glass Jar, 2 oz.
BH02-4'	E505175-02A Soil	05/14/25 05/16	5/25 Glass Jar, 2 oz.
BH02-6'	E505175-03A Soil	05/14/25 05/16	5/25 Glass Jar, 2 oz.
BH02-8'	E505175-04A Soil	05/14/25 05/16	5/25 Glass Jar, 2 oz.
BH02-10'	E505175-05A Soil	05/14/25 05/16	5/25 Glass Jar. 2 oz.



Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/22/2025 7:56:40AM

BH02-2' E505175-01

		12303173-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	vst: SL		Batch: 2520111
Benzene	ND	0.0250	1	05/16/25	05/20/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/20/25	
Toluene	ND	0.0250	1	05/16/25	05/20/25	
o-Xylene	ND	0.0250	1	05/16/25	05/20/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/20/25	
Surrogate: 4-Bromochlorobenzene-PID		88.7 %	70-130	05/16/25	05/20/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: SL		Batch: 2520111
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/20/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.2 %	70-130	05/16/25	05/20/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KH		Batch: 2520134
Diesel Range Organics (C10-C28)	ND	25.0	1	05/16/25	05/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/16/25	05/17/25	
Surrogate: n-Nonane		108 %	61-141	05/16/25	05/17/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: RAS		Batch: 2520137
Chloride	1460	20.0	1	05/16/25	05/17/25	

Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/22/2025 7:56:40AM

BH02-4'

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		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: SL		Batch: 2520111
Benzene	ND	0.0250	1	05/16/25	05/18/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/18/25	
Toluene	ND	0.0250	1	05/16/25	05/18/25	
o-Xylene	ND	0.0250	1	05/16/25	05/18/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/18/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/18/25	
Surrogate: 4-Bromochlorobenzene-PID		84.6 %	70-130	05/16/25	05/18/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: SL		Batch: 2520111
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/18/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.1 %	70-130	05/16/25	05/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: KH		Batch: 2520134
Diesel Range Organics (C10-C28)	ND	25.0	1	05/16/25	05/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/16/25	05/17/25	
Surrogate: n-Nonane		105 %	61-141	05/16/25	05/17/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: RAS		Batch: 2520137



Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/22/2025 7:56:40AM

BH02-6' E505175-03

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: SL		Batch: 2520111
Benzene	ND	0.0250	1	05/16/25	05/18/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/18/25	
Toluene	ND	0.0250	1	05/16/25	05/18/25	
o-Xylene	ND	0.0250	1	05/16/25	05/18/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/18/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/18/25	
Surrogate: 4-Bromochlorobenzene-PID		85.6 %	70-130	05/16/25	05/18/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: SL		Batch: 2520111
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/18/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.5 %	70-130	05/16/25	05/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KH		Batch: 2520134
Diesel Range Organics (C10-C28)	ND	25.0	1	05/16/25	05/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/16/25	05/17/25	
Surrogate: n-Nonane		107 %	61-141	05/16/25	05/17/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: RAS		Batch: 2520137
Chloride	1710	20.0	1	05/16/25	05/17/25	



Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/22/2025 7:56:40AM

BH02-8'

E505175-04

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: SL		Batch: 2520111
Benzene	ND	0.0250	1	05/16/25	05/18/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/18/25	
Toluene	ND	0.0250	1	05/16/25	05/18/25	
o-Xylene	ND	0.0250	1	05/16/25	05/18/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/18/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/18/25	
Surrogate: 4-Bromochlorobenzene-PID		87.4 %	70-130	05/16/25	05/18/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: SL		Batch: 2520111
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/18/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.7 %	70-130	05/16/25	05/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: KH		Batch: 2520134
Diesel Range Organics (C10-C28)	ND	25.0	1	05/16/25	05/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/16/25	05/17/25	
Surrogate: n-Nonane		116 %	61-141	05/16/25	05/17/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: RAS		Batch: 2520137
Chloride	1260	20.0	1	05/16/25	05/17/25	•



Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/22/2025 7:56:40AM

BH02-10' E505175-05

		E303173-03				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: SL		Batch: 2520111
Benzene	ND	0.0250	1	05/16/25	05/18/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/18/25	
Toluene	ND	0.0250	1	05/16/25	05/18/25	
o-Xylene	ND	0.0250	1	05/16/25	05/18/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/18/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/18/25	
Surrogate: 4-Bromochlorobenzene-PID		88.4 %	70-130	05/16/25	05/18/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: SL		Batch: 2520111
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/18/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.7 %	70-130	05/16/25	05/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KH		Batch: 2520134
Diesel Range Organics (C10-C28)	ND	25.0	1	05/16/25	05/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/16/25	05/17/25	
Surrogate: n-Nonane		105 %	61-141	05/16/25	05/17/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: RAS		Batch: 2520137
Chloride	241	20.0	1	05/16/25	05/17/25	



QC Summary Data

Marbob State 001 SWD Matador Resources, LLC. Project Name: Reported: 5400 LBJ Freeway, Suite 1500 Project Number: 23003-0002 Dallas TX, 75240 Project Manager: Ashley Giovengo 5/22/2025 7:56:40AM **Volatile Organics by EPA 8021B** Analyst: SL RPD Reporting Spike Source Rec Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2520111-BLK1) Prepared: 05/16/25 Analyzed: 05/17/25 ND 0.0250 ND Ethylbenzene 0.0250 ND Toluene 0.0250 ND 0.0250 o-Xylene ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 6.72 8.00 84.0 70-130 LCS (2520111-BS1) Prepared: 05/16/25 Analyzed: 05/19/25 5.01 5.00 100 70-130 0.0250 Benzene Ethylbenzene 5.01 0.0250 5.00 100 70-130 70-130 5.02 0.0250 5.00 100 Toluene 4.92 98.3 70-130 o-Xylene 0.0250 5.00 10.1 0.0500 10.0 101 70-130 p,m-Xylene 99.9 70-130 15.0 0.0250 15.0 Total Xylenes 70-130 8.00 86.4 Surrogate: 4-Bromochlorobenzene-PID 6.91

Matrix Spike (2520111-MS1)		Source:	E505173-	05	Prepared: 05/16/25 Analyzed: 05/17/25		
Benzene	5.03	0.0250	5.00	ND	101	70-130	
Ethylbenzene	4.93	0.0250	5.00	ND	98.6	70-130	
Toluene	5.00	0.0250	5.00	ND	100	70-130	
o-Xylene	4.86	0.0250	5.00	ND	97.2	70-130	
p,m-Xylene	9.97	0.0500	10.0	ND	99.7	70-130	
Total Xylenes	14.8	0.0250	15.0	ND	98.9	70-130	
Surrogate: 4-Bromochlorobenzene-PID	6.75		8.00		84.4	70-130	

Matrix Spike Dup (2520111-MSD1)	Matrix Spike Dup (2520111-MSD1)							Prepared: 05/16/25 Analyzed: 05/17/25			
Benzene	5.42	0.0250	5.00	ND	108	70-130	7.46	27			
Ethylbenzene	5.33	0.0250	5.00	ND	107	70-130	7.83	26			
Toluene	5.39	0.0250	5.00	ND	108	70-130	7.49	20			
o-Xylene	5.23	0.0250	5.00	ND	105	70-130	7.28	25			
p,m-Xylene	10.8	0.0500	10.0	ND	108	70-130	7.53	23			
Total Xylenes	16.0	0.0250	15.0	ND	107	70-130	7.45	26			
Surrogate: 4-Bromochlorobenzene-PID	6.73		8.00		84.2	70-130					



Surrogate: 1-Chloro-4-fluorobenzene-FID

7.79

QC Summary Data

Marbob State 001 SWD Matador Resources, LLC. Project Name: Reported: 5400 LBJ Freeway, Suite 1500 Project Number: 23003-0002

Dallas TX, 75240		Project Manage	r: As	shley Gioveng	go			5	5/22/2025 7:56:40AM
	Non	halogenated	Organics	by EPA 80	15D - G	RO			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
Blank (2520111-BLK1)							Prepared: 0	5/16/25 An	alyzed: 05/17/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.71		8.00		96.3	70-130			
LCS (2520111-BS2)							Prepared: 0	5/16/25 An	alyzed: 05/17/25
Gasoline Range Organics (C6-C10)	41.8	20.0	50.0		83.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.79		8.00		97.4	70-130			
Matrix Spike (2520111-MS2)				Source:	E505173-	05	Prepared: 0	5/16/25 An	alyzed: 05/17/25
Gasoline Range Organics (C6-C10)	45.9	20.0	50.0	ND	91.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.74		8.00		96.8	70-130			
Matrix Spike Dup (2520111-MSD2)				Source:	E505173-	05	Prepared: 0	5/16/25 An	alyzed: 05/20/25
Gasoline Range Organics (C6-C10)	44.6	20.0	50.0	ND	89.2	70-130	2.94	20	

8.00

97.4

70-130

QC Summary Data

Matador Resources, LLC.Project Name:Marbob State 001 SWDReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo5/22/20257:56:40AM

, , , ,		, ,		, .	,				
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: KH
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2520134-BLK1)							Prepared: 0	5/16/25 Ana	yzed: 05/16/25
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.7		50.0		101	61-141			
LCS (2520134-BS1)							Prepared: 0	5/16/25 Ana	yzed: 05/16/25
Diesel Range Organics (C10-C28)	260	25.0	250		104	66-144			
Surrogate: n-Nonane	50.2		50.0		100	61-141			
Matrix Spike (2520134-MS1)				Source:	E505118-	02RE1	Prepared: 0	5/16/25 Ana	yzed: 05/16/25
Diesel Range Organics (C10-C28)	297	25.0	250	ND	119	56-156			
Surrogate: n-Nonane	54.7		50.0		109	61-141			
Matrix Spike Dup (2520134-MSD1)				Source:	E505118-	02RE1	Prepared: 0	5/16/25 Ana	yzed: 05/16/25
Diesel Range Organics (C10-C28)	290	25.0	250	ND	116	56-156	2.31	20	
Surrogate: n-Nonane	51.1		50.0		102	61-141			

Matrix Spike (2520137-MS1)

Matrix Spike Dup (2520137-MSD1)

Chloride

Chloride

352

343

Prepared: 05/16/25 Analyzed: 05/17/25

Prepared: 05/16/25 Analyzed: 05/17/25

20

QC Summary Data

Matador Resources, LLC.		Project Name:	N	1arbob State 0	01 SWD				Reported:
5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Number: Project Manager:		3003-0002 Ashley Gioveng	go			5.	/22/2025 7:56:40AM
		Anions	by EPA	300.0/9056	A				Analyst: RAS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	N
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2520137-BLK1)							Prepared: 0	5/16/25 Ana	alyzed: 05/17/25
Chloride	ND	20.0							
LCS (2520137-BS1)							Prepared: 0	5/16/25 Ana	alyzed: 05/17/25
Chloride	261	20.0	250		105	90-110			

250

250

20.0

20.0

Source: E505169-06

Source: E505169-06

111

107

80-120

80-120

2.65

74.4

74.4

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

l	Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
l	5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
l	Dallas TX, 75240	Project Manager:	Ashley Giovengo	05/22/25 07:56

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



na	in	of	Custody

	Clie	nt Inforn	nation			Invoice Information	on				Lab	Use	Onl	у				TA	T			Sta	e
lient: M	atador Prod	luction Co	ompany		Co	mpany: Ensolum LLC		La	b W	0#		J	lob N	lumb	er		1D	2D	3D St	d	NM	co U1	TX
roject: N	larbob State	#001 SV	VD		Ac	Idress: 3122 National Parks	Hwy	E	K	5	175	5 1	230	13.	000	2			X		X		
roject M	anager: Ash	nley Giov	engo		Cit	y, State, Zip: Carlsbad NM,	88220		~	,	-				-								
ddress:	3122 Nation	nal Parks	Hwy		Ph	one: 575-988-0055			Г				Ana	lysis	and	Met	hod			T	EP	A Progr	am
ity, State	, Zip: Carls	bad NM,	88220		Er	nail: agiovengo@ensolum	.com											-		\top	SDWA	CWA	RCRA
hone: 5	75-988-0055	5				cellaneous:									ΝÍ								
mail: ag	iovengo@er	nsolum.c	om							2	53									c	omplianc	e Y	or N
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			7	Sam	ple Information	on				d O	0 6	805	8260	300	N N	1-5	Met						
Time Sampled	Date Sampled	Matrix	No. of Containers			Sample ID	Field	Lab Numbe	er	DRO/ORO by 8015	GRO/DRO by	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals					Remark	5
14:46	5/14/2025	S	1			BH02-2'		1							х					2	2.0		
15:11	5/14/2025	S	1			BH02-4'		2							х					2	2. 8		
15:20	5/14/2025	S	1			BH02-6'		3							х					1	. 8		
15:29	5/14/2025	S	1			BH02-8'		4							х					2	2.0		
16:04	5/14/2025	S	1			BH02-10'		5							х						8.		
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ample Matr	x: S - Soil, Sd - S	olid, Sg - Slu	dge, A - Aqued	ous, O - Othe	r		Con	tainer Ty	/be: 8	g - gi	ass, p	- po	iy/pla	astic,	ag - a	ambe	r glas	55, V -	VUA				

Note: Samples are discarded 14 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 Inc.

Printed: 5/16/2025 1:29:11PM

Envirotech Analytical Laboratory

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 Resources, LLC.	Date Received:	05/16/25	08:30	Work Order ID:	E505175
Phone:	(972) 371-5200	Date Logged In:	05/15/25	14:39	Logged In By:	Caitlin Mars
Email:	agiovengo@ensolum.com	Due Date:	05/22/25	17:00 (4 day TAT)		
Chain of	Custody (COC)					
	he sample ID match the COC?		Yes			
2. Does t	he number of samples per sampling site location ma	atch the COC	Yes			
3. Were s	samples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was th	e COC complete, i.e., signatures, dates/times, reque	ested analyses?	Yes			
5. Were a	all samples received within holding time?		Yes			
	Note: Analysis, such as pH which should be conducted i.e, 15 minute hold time, are not included in this disuess	•			Comment	ts/Resolution
Sample '	Furn Around Time (TAT)	ion.				
	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample (
7. Was a	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was th	ne sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
	s, were custody/security seals intact?		NA			
-	ne sample received on ice?					
12. was u	Note: Thermal preservation is not required, if samples a	re received within	Yes			
	15 minutes of sampling					
13. See C	COC for individual sample temps. Samples outside	of 0°C-6°C will be	recorded	in comments.		
Sample (<u>Container</u>					
14. Are a	queous VOC samples present?		No			
15. Are \	OC samples collected in VOA Vials?		NA			
16. Is the	head space less than 6-8 mm (pea sized or less)?		NA			
17. Was a	a trip blank (TB) included for VOC analyses?		NA			
18. Are n	on-VOC samples collected in the correct container	s?	Yes			
19. Is the	appropriate volume/weight or number of sample conta	iners collected?	Yes			
Field La	<u>bel</u>					
	field sample labels filled out with the minimum int	formation:				
	lample ID?		Yes			
	Oate/Time Collected?		Yes			
	Collectors name?		Yes			
	Preservation the COC or field labels indicate the samples were p	recerved?	No			
	ample(s) correctly preserved?	oreserveu?	NA			
	ofiltration required and/or requested for dissolved n	netals?	No			
		ictais:	NO			
	ase Sample Matrix	0				
	the sample have more than one phase, i.e., multiph		No			
27. If yes	s, does the COC specify which phase(s) is to be ana	lyzed?	NA			
	ract Laboratory					
	amples required to get sent to a subcontract laborate	•	No			
29. Was a	a subcontract laboratory specified by the client and	if so who?	NA	Subcontract Lab: NA		
Client I	<u>nstruction</u>					
1						

Date

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

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Marbob State 001 SWD

Work Order: E505176

Job Number: 23003-0002

Received: 5/16/2025

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 5/22/25

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: 5/22/25

Ashley Giovengo 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240

Project Name: Marbob State 001 SWD

Workorder: E505176

Date Received: 5/16/2025 8:30:22AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/16/2025 8:30:22AM, under the Project Name: Marbob State 001 SWD.

The analytical test results summarized in this report with the Project Name: Marbob State 001 SWD 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 reguarding 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

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

Field Offices:

Southern New Mexico Area

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Sample Summary

Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	Donoutoda
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	05/22/25 10:36

Client Sample ID	Lab Sample ID Mat	rix Sampled	Received	Container
BH01-0'	E505176-01A So	il 05/14/25	05/16/25	Glass Jar, 2 oz.
BH01-2'	E505176-02A So	il 05/14/25	05/16/25	Glass Jar, 2 oz.
BH01-4'	E505176-03A So	il 05/14/25	05/16/25	Glass Jar, 2 oz.
BH01-6'	E505176-04A So	il 05/14/25	05/16/25	Glass Jar, 2 oz.
BH01-8'	E505176-05A So	il 05/14/25	05/16/25	Glass Jar, 2 oz.
BH01-10'	E505176-06A So	il 05/14/25	05/16/25	Glass Jar, 2 oz.
BH01-12'	E505176-07A So	il 05/14/25	05/16/25	Glass Jar, 2 oz.
BH01-14'	E505176-08A So	il 05/14/25	05/16/25	Glass Jar, 2 oz.
BH01-15'	E505176-09A So	il 05/14/25	05/16/25	Glass Jar, 2 oz.
BH02-0'	E505176-10A So	il 05/14/25	05/16/25	Glass Jar, 2 oz.



Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/22/2025 10:36:58AM

BH01-0' E505176-01

		E303170-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: SL		Batch: 2520111
Benzene	ND	0.0250	1	05/16/25	05/18/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/18/25	
Toluene	ND	0.0250	1	05/16/25	05/18/25	
o-Xylene	ND	0.0250	1	05/16/25	05/18/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/18/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/18/25	
Surrogate: 4-Bromochlorobenzene-PID		85.8 %	70-130	05/16/25	05/18/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: SL		Batch: 2520111
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/18/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.6 %	70-130	05/16/25	05/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: KH		Batch: 2520134
Diesel Range Organics (C10-C28)	ND	25.0	1	05/16/25	05/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/16/25	05/17/25	
Surrogate: n-Nonane		111 %	61-141	05/16/25	05/17/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: RAS		Batch: 2520138
Chloride	21300	400	20	05/16/25	05/18/25	



Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/22/2025 10:36:58AM

BH01-2'

E505176-02

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	llyst: SL		Batch: 2520111
Benzene	ND	0.0250	1	05/16/25	05/18/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/18/25	
Toluene	ND	0.0250	1	05/16/25	05/18/25	
o-Xylene	ND	0.0250	1	05/16/25	05/18/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/18/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/18/25	
Surrogate: 4-Bromochlorobenzene-PID		86.5 %	70-130	05/16/25	05/18/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	llyst: SL		Batch: 2520111
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/18/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.8 %	70-130	05/16/25	05/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KH		Batch: 2520134
Diesel Range Organics (C10-C28)	ND	25.0	1	05/16/25	05/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/16/25	05/17/25	
Surrogate: n-Nonane		103 %	61-141	05/16/25	05/17/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: RAS		Batch: 2520138
Chloride	967	40.0	2	05/16/25	05/18/25	



Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/22/2025 10:36:58AM

BH01-4' E505176-03

		1303170 05				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: SL		Batch: 2520111
Benzene	ND	0.0250	1	05/16/25	05/18/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/18/25	
Toluene	ND	0.0250	1	05/16/25	05/18/25	
p-Xylene	ND	0.0250	1	05/16/25	05/18/25	
o,m-Xylene	ND	0.0500	1	05/16/25	05/18/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/18/25	
Surrogate: 4-Bromochlorobenzene-PID		87.8 %	70-130	05/16/25	05/18/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: SL		Batch: 2520111
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/18/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.7 %	70-130	05/16/25	05/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KH		Batch: 2520134
Diesel Range Organics (C10-C28)	ND	25.0	1	05/16/25	05/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/16/25	05/17/25	
Surrogate: n-Nonane		102 %	61-141	05/16/25	05/17/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: RAS		Batch: 2520138
Chloride	3530	40.0	2	05/16/25	05/18/25	



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5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/22/2025 10:36:58AM

BH01-6' E505176-04

		1303170 04				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: SL		Batch: 2520111
Benzene	ND	0.0250	1	05/16/25	05/18/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/18/25	
Toluene	ND	0.0250	1	05/16/25	05/18/25	
-Xylene	ND	0.0250	1	05/16/25	05/18/25	
o,m-Xylene	ND	0.0500	1	05/16/25	05/18/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/18/25	
Surrogate: 4-Bromochlorobenzene-PID		88.3 %	70-130	05/16/25	05/18/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: SL		Batch: 2520111
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/18/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.0 %	70-130	05/16/25	05/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KH		Batch: 2520134
Diesel Range Organics (C10-C28)	ND	25.0	1	05/16/25	05/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/16/25	05/17/25	
Surrogate: n-Nonane		105 %	61-141	05/16/25	05/17/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: RAS		Batch: 2520138
Chloride	4120	40.0	2	05/16/25	05/18/25	



Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/22/2025 10:36:58AM

BH01-8'

E50	151	76	ΛS
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		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: SL		Batch: 2520111
Benzene	ND	0.0250	1	05/16/25	05/18/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/18/25	
Toluene	ND	0.0250	1	05/16/25	05/18/25	
o-Xylene	ND	0.0250	1	05/16/25	05/18/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/18/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/18/25	
Surrogate: 4-Bromochlorobenzene-PID		89.2 %	70-130	05/16/25	05/18/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: SL		Batch: 2520111
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/18/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.8 %	70-130	05/16/25	05/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KH		Batch: 2520134
Diesel Range Organics (C10-C28)	ND	25.0	1	05/16/25	05/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/16/25	05/17/25	
Surrogate: n-Nonane		109 %	61-141	05/16/25	05/17/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: RAS		Batch: 2520138
· · · · · · · · · · · · · · · · · · ·	3750	40.0	2	05/16/25	05/18/25	<u> </u>



Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/22/2025 10:36:58AM

BH01-10' E505176-06

		E303170-00				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: SL		Batch: 2520111
Benzene	ND	0.0250	1	05/16/25	05/18/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/18/25	
Toluene	ND	0.0250	1	05/16/25	05/18/25	
o-Xylene	ND	0.0250	1	05/16/25	05/18/25	
o,m-Xylene	ND	0.0500	1	05/16/25	05/18/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/18/25	
Surrogate: 4-Bromochlorobenzene-PID		89.0 %	70-130	05/16/25	05/18/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: SL		Batch: 2520111
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/18/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.3 %	70-130	05/16/25	05/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KH		Batch: 2520134
Diesel Range Organics (C10-C28)	ND	25.0	1	05/16/25	05/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/16/25	05/17/25	
Surrogate: n-Nonane		105 %	61-141	05/16/25	05/17/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: RAS		Batch: 2520138
Chloride	2280	40.0	2	05/16/25	05/18/25	



Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/22/2025 10:36:58AM

BH01-12' E505176-07

	1303170 07				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analy	vst: SL		Batch: 2520111
ND	0.0250	1	05/16/25	05/18/25	
ND	0.0250	1	05/16/25	05/18/25	
ND	0.0250	1	05/16/25	05/18/25	
ND	0.0250	1	05/16/25	05/18/25	
ND	0.0500	1	05/16/25	05/18/25	
ND	0.0250	1	05/16/25	05/18/25	
	89.6 %	70-130	05/16/25	05/18/25	
mg/kg	mg/kg	Analy	st: SL		Batch: 2520111
ND	20.0	1	05/16/25	05/18/25	
	96.0 %	70-130	05/16/25	05/18/25	
mg/kg	mg/kg	Analy	st: KH		Batch: 2520134
ND	25.0	1	05/16/25	05/17/25	
ND	50.0	1	05/16/25	05/17/25	
	101 %	61-141	05/16/25	05/17/25	
mg/kg	mg/kg	Analy	vst: RAS		Batch: 2520138
823	20.0	1	05/16/25	05/18/25	
	mg/kg ND Mg/kg ND mg/kg	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 89.6 % mg/kg MD 20.0 96.0 % mg/kg ND 25.0 ND 50.0 101 % mg/kg mg/kg mg/kg	mg/kg mg/kg Analy ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 89.6% 70-130 mg/kg mg/kg Analy ND 20.0 1 96.0% 70-130 1 mg/kg mg/kg Analy ND 25.0 1 ND 50.0 1 101% 61-141 1 mg/kg mg/kg Analy	Result Limit Dilution Prepared mg/kg mg/kg Analyst: SL ND 0.0250 1 05/16/25 ND 0.0250 1 05/16/25 ND 0.0250 1 05/16/25 ND 0.0250 1 05/16/25 ND 0.0500 1 05/16/25 ND 0.0250 1 05/16/25 mg/kg mg/kg Analyst: SL mg/kg mg/kg Analyst: SL ND 20.0 1 05/16/25 mg/kg mg/kg Analyst: KH ND 25.0 1 05/16/25 ND 50.0 1 05/16/25 ND 50.0 1 05/16/25 ND 50.0 1 05/16/25 mg/kg mg/kg Analyst: RAS	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: SL ND 0.0250 1 05/16/25 05/18/25 ND 0.0500 1 05/16/25 05/18/25 ND 0.0250 1 05/16/25 05/18/25 ND 0.0250 1 05/16/25 05/18/25 mg/kg mg/kg Analyst: SL mg/kg mg/kg Analyst: SL ND 20.0 1 05/16/25 05/18/25 mg/kg mg/kg Analyst: KH ND 25.0 1 05/16/25 05/17/25 ND 25.0 1 05/16/25 05/17/25 ND 50.0 1 05/16/25 05/17/25 ND 50.0



Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/22/2025 10:36:58AM

BH01-14' E505176-08

		1303170 00				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	rst: SL		Batch: 2520111
Benzene	ND	0.0250	1	05/16/25	05/18/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/18/25	
Toluene	ND	0.0250	1	05/16/25	05/18/25	
-Xylene	ND	0.0250	1	05/16/25	05/18/25	
o,m-Xylene	ND	0.0500	1	05/16/25	05/18/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/18/25	
Surrogate: 4-Bromochlorobenzene-PID		90.3 %	70-130	05/16/25	05/18/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	rst: SL		Batch: 2520111
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/18/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.1 %	70-130	05/16/25	05/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KH		Batch: 2520134
Diesel Range Organics (C10-C28)	ND	25.0	1	05/16/25	05/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/16/25	05/17/25	
Surrogate: n-Nonane		98.3 %	61-141	05/16/25	05/17/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: RAS		Batch: 2520138
Chloride	636	20.0	1	05/16/25	05/18/25	



Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/22/2025 10:36:58AM

BH01-15' E505176-09

	E303170 07				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analy	yst: SL		Batch: 2520111
ND	0.0250	1	05/16/25	05/18/25	
ND	0.0250	1	05/16/25	05/18/25	
ND	0.0250	1	05/16/25	05/18/25	
ND	0.0250	1	05/16/25	05/18/25	
ND	0.0500	1	05/16/25	05/18/25	
ND	0.0250	1	05/16/25	05/18/25	
	90.7 %	70-130	05/16/25	05/18/25	
mg/kg	mg/kg	Analy	yst: SL		Batch: 2520111
ND	20.0	1	05/16/25	05/18/25	
	95.5 %	70-130	05/16/25	05/18/25	
mg/kg	mg/kg	Analy	yst: KH		Batch: 2520134
ND	25.0	1	05/16/25	05/17/25	
ND	50.0	1	05/16/25	05/17/25	
	104 %	61-141	05/16/25	05/17/25	
mg/kg	mg/kg	Analy	yst: RAS		Batch: 2520138
104	20.0	1	05/16/25	05/18/25	
	mg/kg ND Mg/kg ND mg/kg	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 MD 20.0250 MD 20.0 95.5 % mg/kg MD 25.0 ND 50.0 104 % mg/kg mg/kg mg/kg	mg/kg mg/kg Analy ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 90.7 % 70-130 mg/kg mg/kg Analy ND 20.0 1 95.5 % 70-130 1 mg/kg mg/kg Analy ND 25.0 1 ND 50.0 1 104 % 61-141 61-141 mg/kg mg/kg Analy	Result Limit Dilution Prepared mg/kg mg/kg Analyst: SL ND 0.0250 1 05/16/25 ND 0.0250 1 05/16/25 ND 0.0250 1 05/16/25 ND 0.0250 1 05/16/25 ND 0.0500 1 05/16/25 ND 0.0250 1 05/16/25 mg/kg mg/kg Analyst: SL mg/kg mg/kg Analyst: SL ND 20.0 1 05/16/25 mg/kg mg/kg Analyst: KH ND 25.0 1 05/16/25 ND 50.0 1 05/16/25 ND 50.0 1 05/16/25 ND 50.0 1 05/16/25 mg/kg mg/kg Analyst: RAS	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: SL ND 0.0250 1 05/16/25 05/18/25 ND 0.0500 1 05/16/25 05/18/25 ND 0.0250 1 05/16/25 05/18/25 MD 0.0250 1 05/16/25 05/18/25 MD 0.0250 1 05/16/25 05/18/25 mg/kg mg/kg Analyst: SL ND 20.0 1 05/16/25 05/18/25 mg/kg mg/kg Analyst: KH ND 25.0 1 05/16/25 05/17/25 ND 25.0 1 05/16/25 05/17/25 ND 50.0 1 05/16/25 05/17/25 <



Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/22/2025 10:36:58AM

BH02-0'

		E505176-10				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: SL		Batch: 2520111
Benzene	ND	0.0250	1	05/16/25	05/18/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/18/25	
Toluene	ND	0.0250	1	05/16/25	05/18/25	
o-Xylene	0.285	0.0250	1	05/16/25	05/18/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/18/25	
Total Xylenes	0.285	0.0250	1	05/16/25	05/18/25	
Surrogate: 4-Bromochlorobenzene-PID		90.0 %	70-130	05/16/25	05/18/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: SL		Batch: 2520111
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/18/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.8 %	70-130	05/16/25	05/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KH		Batch: 2520134
Diesel Range Organics (C10-C28)	156	25.0	1	05/16/25	05/17/25	
Oil Range Organics (C28-C36)	257	50.0	1	05/16/25	05/17/25	
Surrogate: n-Nonane		98.9 %	61-141	05/16/25	05/17/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2520138
Chloride	1120	20.0	1	05/16/25	05/18/25	



QC Summary Data

	~	•	
Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	•
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/22/2025 10:36:58AM
	Analyst SI		

Dallas TX, 75240				shley Giovengo					5/22/2025 10:36:58AN
		Project Manager:							
		Volatile O	rganics b	y EPA 8021	В				Analyst: SL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2520111-BLK1)							Prepared: 0:	5/16/25 An	nalyzed: 05/17/25
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	6.72		8.00		84.0	70-130			
LCS (2520111-BS1)							Prepared: 0:	5/16/25 An	nalyzed: 05/19/25
Benzene	5.01	0.0250	5.00		100	70-130			
Ethylbenzene	5.01	0.0250	5.00		100	70-130			
Toluene	5.02	0.0250	5.00		100	70-130			
o-Xylene	4.92	0.0250	5.00		98.3	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.0	0.0250	15.0		99.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.91		8.00		86.4	70-130			
Matrix Spike (2520111-MS1)				Source: E	505173-0	5	Prepared: 0	5/16/25 An	nalyzed: 05/17/25
Benzene	5.03	0.0250	5.00	ND	101	70-130			
Ethylbenzene	4.93	0.0250	5.00	ND	98.6	70-130			
Toluene	5.00	0.0250	5.00	ND	100	70-130			
o-Xylene	4.86	0.0250	5.00	ND	97.2	70-130			
p,m-Xylene	9.97	0.0500	10.0	ND	99.7	70-130			
Total Xylenes	14.8	0.0250	15.0	ND	98.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.75		8.00		84.4	70-130			
Matrix Spike Dup (2520111-MSD1)				Source: E	505173-0	5	Prepared: 0	5/16/25 An	nalyzed: 05/17/25
Benzene	5.42	0.0250	5.00	ND	108	70-130	7.46	27	
Ethylbenzene	5.33	0.0250	5.00	ND	107	70-130	7.83	26	
Toluene	5.39	0.0250	5.00	ND	108	70-130	7.49	20	
o-Xylene	5.23	0.0250	5.00	ND	105	70-130	7.28	25	
p,m-Xylene	10.8	0.0500	10.0	ND	108	70-130	7.53	23	
Total Xylenes	16.0	0.0250	15.0	ND	107	70-130	7.45	26	



Gasoline Range Organics (C6-C10)

Surrogate: 1-Chloro-4-fluorobenzene-FID

QC Summary Data

Matador Resources, LLC.Project Name:Marbob State 001 SWDReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo5/22/2025 10:36:58AM

	Non	halogenated	Organics l	oy EPA 801	15D - GI	RO			Analyst: SL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2520111-BLK1)							Prepared: 0:	5/16/25 Anal	yzed: 05/17/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.71		8.00		96.3	70-130			
LCS (2520111-BS2)							Prepared: 0:	5/16/25 Anal	yzed: 05/17/25
Gasoline Range Organics (C6-C10)	41.8	20.0	50.0		83.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.79		8.00		97.4	70-130			
Matrix Spike (2520111-MS2)				Source:	E505173-0)5	Prepared: 0	5/16/25 Anal	yzed: 05/17/25
Gasoline Range Organics (C6-C10)	45.9	20.0	50.0	ND	91.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.74		8.00		96.8	70-130			

50.0

8.00

ND

89.2

97.4

70-130

70-130

2.94

20

20.0

7.79

QC Summary Data

Matador Resources, LLC.Project Name:Marbob State 001 SWDReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo5/22/2025 10:36:58AM

Bullus 171, 732 10		Troject Manage		iney Groveng	-0				
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: KH
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2520134-BLK1)							Prepared: 0	5/16/25 Analy	vzed: 05/16/25
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.7		50.0		101	61-141			
LCS (2520134-BS1)							Prepared: 0	5/16/25 Analy	zed: 05/16/25
Diesel Range Organics (C10-C28)	260	25.0	250		104	66-144			
Surrogate: n-Nonane	50.2		50.0		100	61-141			
Matrix Spike (2520134-MS1)				Source:	E505118-	02RE1	Prepared: 0	5/16/25 Analy	zed: 05/16/25
Diesel Range Organics (C10-C28)	297	25.0	250	ND	119	56-156			
Surrogate: n-Nonane	54.7		50.0		109	61-141			
Matrix Spike Dup (2520134-MSD1)				Source:	E505118-	02RE1	Prepared: 0	5/16/25 Analy	zed: 05/16/25
Diesel Range Organics (C10-C28)	290	25.0	250	ND	116	56-156	2.31	20	
Surrogate: n-Nonane	51.1		50.0		102	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:	2	Marbob State 001 SWD 23003-0002 Ashley Giovengo					Reported: 5/22/2025 10:36:58AM
		Analyst: RAS							
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes

	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2520138-BLK1)							Prepared: 0:	5/16/25 Ana	yzed: 05/18/25
Chloride	ND	20.0							
LCS (2520138-BS1)							Prepared: 0:	5/16/25 Ana	lyzed: 05/18/25
Chloride	256	20.0	250		102	90-110			
Matrix Spike (2520138-MS1)				Source:	E505176-0	05	Prepared: 0:	5/16/25 Ana	lyzed: 05/18/25
Chloride	3850	40.0	250	3750	37.7	80-120			M4
Matrix Spike Dup (2520138-MSD1)				Source:	E505176-0	05	Prepared: 0:	5/16/25 Ana	yzed: 05/18/25
Chloride	3800	40.0	250	3750	17.2	80-120	1.34	20	M4

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 Resources, LLC.	Project Name:	Marbob State 001 SWD	
ı	5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
ı	Dallas TX, 75240	Project Manager:	Ashley Giovengo	05/22/25 10:36

M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. 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

DNR Did not react with the addition of acid or base.

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

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



State	9
UT	TX
rogra	m
CWA	RCRA
Υ	or N
marks	

	gram A RCRA Y or N
City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com Miscellaneous: Sample Information Sample ID Email: Agiovengo@ensolum.com Somple ID	A RCRA Y or N
Project Manager: Ashley Giovengo Address: 3122 National Parks Hwy City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com Miscellaneous: Sample Information Time Sampled Date Sampled Matrix No. of Sample ID Time Sampled Date Sampled Matrix No. of Sample ID Time Sampled Date Sampled Sampled Sampled Sampled Sampled Date Sampled Sampled Date Sampled	A RCRA Y or N
Email: agiovengo@ensolum.com Miscellaneous: Miscella	A RCRA Y or N
Phone: 575-988-0055	Y or N
Compliance PWSID #	
PWSID# P	
Time Date Sampled Matrix No. of Containers Sample Information Sample Informatio	rks
Time Date Sampled Matrix No. of Containers Sample Information Sample Informatio	rks
10:03 5/14/2025 S 1 BH01-0'	irks
10:08 5/14/2025 S 1 BH01-2' Z X 2.4	
2 x 2.4	
- 11 1000 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
10:46 5/14/2025 S 1 BH01-6' Y 1.8	
11:16 5/14/2025 S 1 BH01-8' 5 X 1	
11:40 5/14/2025 S 1 BH01-10' W X 1.7	
13:11 5/14/2025 S 1 BH01-12 7 X 23	
13:46 5/14/2025 S 1 BH01-14' 8 x J.9	
14:01 5/14/2025 S 1 BH01-15' 9 X 7.0	
14:24 5/14/2025 S 1 BH02-0' X 1.4	
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensoulm.com, bsimmons@ensolum.com,	
igonzalez@ensolum.com, bmoir@ensolum.com, oaderinto@ensolum.com	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:Aboubakar Kone	
Relinquished by: (Signature) Date 5/15/ Time. Received by: (Signature) Date 5/15/ Time. Received by: (Signature) Date 5/15/ Time. Samples requiring thermal preservation must be received on ice the sampled or received packed in ice at an avg temp above 0 but less to the sampled or received packed in ice at an avg temp above 0 but less to the sampled or received packed in ice at an avg temp above 0 but less to the sampled or received packed in ice at an avg temp above 0 but less to the sampled or received packed in ice at an avg temp above 0 but less to the sampled or received packed in ice at an avg temp above 0 but less to the sampled or received packed in ice at an avg temp above 0 but less to the sampled or received packed in ice at an avg temp above 0 but less to the sampled or received packed in ice at an avg temp above 0 but less to the sampled or received packed in ice at an avg temp above 0 but less to the sampled or received packed in ice at an avg temp above 0 but less to the sampled or received packed in ice at an avg temp above 0 but less to the sampled or received packed in ice at an avg temp above 0 but less to the sampled or received packed in ice at an avg temp above 0 but less to the sampled or received packed in ice at an avg temp above 0 but less to the sampled or received packed in ice at an avg temp above 0 but less to the sampled or received packed in ice at an avg temp above 0 but less to the sampled or received packed in ice at an avg temp above 0 but less to the sampled or received packed in ice at an avg temp above 0 but less to the sampled or received packed in ice at an avg temp above 0 but less to the sampled or received packed in ice at an avg temp above 0 but less to the sampled or received packed in ice at an avg temp above 0 but less to the sampled or received packed in ice at an avg temp above 0 but less to the sampled or received packed in ice at an avg temp above 0 but less to the sampled or received packed in ice at an avg temp above 0 but less to the sampled or r	
Relinquished by: (Signature) Date Time Received by: (Signature) Date Time C-15-25 Time Received on ice: (Y) N	
Relinquished by: (Signature) Date Time Received by: (Signature) Date Time Received by: (Signature) Date Time Time Time Time Time Time Time Tim	
Relinquished by: (Signature) Date Time Received by: (Signature) Date Time	
AVG Temp °C	
Sample Matrix: S - Soil, Sd - Soild, Sg - Sludge, A - Aqueous, O - Other	

client expense. The report for the analysis of the above samples is

envirotect

envirotect

838

Printed: 5/16/2025 1:31:53PM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

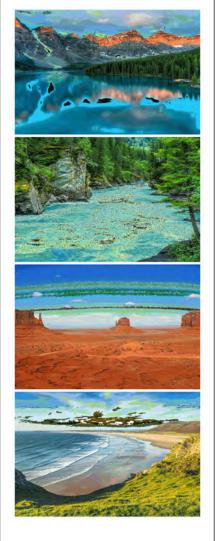
Instructions: Please take note of any NO checkmarks.

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 Resources, LLC.	Date Received:	05/16/25 0	8:30		Work Order ID:	E505176	
Phone:	(972) 371-5200	Date Logged In:	05/15/25 1	4:42		Logged In By:	Caitlin Mars	
Email:	agiovengo@ensolum.com	Due Date:		7:00 (4 day T	AT)	20 7		
Chain of	Custody (COC)							
	ne sample ID match the COC?		Yes					
	ne number of samples per sampling site location ma	tch the COC	Yes					
	amples dropped off by client or carrier?		Yes	Carri	er: <u>Courier</u>			
	e COC complete, i.e., signatures, dates/times, reque	sted analyses?	Yes					
5. Were a	Il samples received within holding time? Note: Analysis, such as pH which should be conducted i i.e, 15 minute hold time, are not included in this disucssi		Yes			<u>Commen</u>	ts/Resolution	
	urn Around Time (TAT)							
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes					
Sample C	C <u>ooler</u> sample cooler received?		Yes					
	was cooler received in good condition?		Yes					
•	<u> </u>							
	e sample(s) received intact, i.e., not broken?		Yes					
	custody/security seals present?		No					
11. If yes,	were custody/security seals intact?		NA					
12. Was th	e sample received on ice? Note: Thermal preservation is not required, if samples at 15 minutes of sampling	re received within	Yes					
13. See C	OC for individual sample temps. Samples outside of	of 0°C-6°C will be	recorded in	n comments	.			
Sample C	<u>Container</u>							
14. Are a	queous VOC samples present?		No					
15. Are V	OC 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 no	on-VOC samples collected in the correct containers	?	Yes					
19. Is the	appropriate volume/weight or number of sample contain	ners collected?	Yes					
Field Lab	<u>oel</u>							
	field sample labels filled out with the minimum information ample ID?	ormation:	Vac					
	ample ID? ate/Time Collected?		Yes					
	ollectors name?		Yes Yes					
	reservation_		103					
	the COC or field labels indicate the samples were p	reserved?	No					
22. Are sa	ample(s) correctly preserved?		NA					
	filtration required and/or requested for dissolved m	etals?	No					
Multinha	se Sample Matrix							
	the sample have more than one phase, i.e., multipha	ise?	No					
	, does the COC specify which phase(s) is to be anal		NA					
		,	1471					
	act Laboratory	9	3.7					
	amples required to get sent to a subcontract laborate	•	No	~ .				
29. was a	subcontract laboratory specified by the client and i	i so wno?	NA	Subcontract	Lab: NA			
Client Ir	<u>istruction</u>							

Date

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





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Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Marbob State 001 SWD

Work Order: E505199

Job Number: 23003-0002

Received: 5/19/2025

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 5/23/25

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: 5/23/25

Ashley Giovengo 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240

Project Name: Marbob State 001 SWD

Workorder: E505199

Date Received: 5/19/2025 7:30:17AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/19/2025 7:30:17AM, under the Project Name: Marbob State 001 SWD.

The analytical test results summarized in this report with the Project Name: Marbob State 001 SWD 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 reguarding 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

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

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Lynn Jarboe

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ljarboe@envirotech-inc.com

Michelle Gonzales

Client Representative

Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	Donoutoda
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	05/23/25 07:40

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH03-0'	E505199-01A	Soil	05/15/25	05/19/25	Glass Jar, 2 oz.
BH03-2'	E505199-02A	Soil	05/15/25	05/19/25	Glass Jar, 2 oz.
BH03-4'	E505199-03A	Soil	05/15/25	05/19/25	Glass Jar, 2 oz.
BH03-6'	E505199-04A	Soil	05/15/25	05/19/25	Glass Jar, 2 oz.
BH03-8'	E505199-05A	Soil	05/15/25	05/19/25	Glass Jar, 2 oz.
BH03-10'	E505199-06A	Soil	05/15/25	05/19/25	Glass Jar, 2 oz.
BH04-0'	E505199-07A	Soil	05/15/25	05/19/25	Glass Jar, 2 oz.
BH04-1'	E505199-08A	Soil	05/15/25	05/19/25	Glass Jar, 2 oz.
BH04-2'	E505199-09A	Soil	05/15/25	05/19/25	Glass Jar, 2 oz.
BH04-3'	E505199-10A	Soil	05/15/25	05/19/25	Glass Jar, 2 oz.

Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/23/2025 7:40:38AM

BH03-0' E505199-01

		E303177-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: BA		Batch: 2521006
Benzene	ND	0.0250	1	05/19/25	05/20/25	
Ethylbenzene	ND	0.0250	1	05/19/25	05/20/25	
Toluene	ND	0.0250	1	05/19/25	05/20/25	
o-Xylene	ND	0.0250	1	05/19/25	05/20/25	
p,m-Xylene	ND	0.0500	1	05/19/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/19/25	05/20/25	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	05/19/25	05/20/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: BA		Batch: 2521006
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/25	05/20/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.2 %	70-130	05/19/25	05/20/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KH		Batch: 2521028
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/25	05/21/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/25	05/21/25	
Surrogate: n-Nonane		103 %	61-141	05/19/25	05/21/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: JM		Batch: 2521018
Chloride	814	20.0	1	05/19/25	05/19/25	

Chloride

Sample Data

Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/23/2025 7:40:38AM

BH03-2'

E505199-02						
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2521006
Benzene	ND	0.0250	1	05/19/25	05/20/25	
Ethylbenzene	ND	0.0250	1	05/19/25	05/20/25	
Toluene	ND	0.0250	1	05/19/25	05/20/25	
o-Xylene	ND	0.0250	1	05/19/25	05/20/25	
p,m-Xylene	ND	0.0500	1	05/19/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/19/25	05/20/25	
Surrogate: 4-Bromochlorobenzene-PID		100 %	70-130	05/19/25	05/20/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2521006
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/25	05/20/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.4 %	70-130	05/19/25	05/20/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: KH		Batch: 2521028
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/25	05/21/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/25	05/21/25	
Surrogate: n-Nonane		107 %	61-141	05/19/25	05/21/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: JM		Batch: 2521018

20.0

05/19/25

05/19/25

1210



Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/23/2025 7:40:38AM

BH03-4'

E505199-03						
Reporting						
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2521006
Benzene	ND	0.0250	1	05/19/25	05/20/25	
Ethylbenzene	ND	0.0250	1	05/19/25	05/20/25	
Toluene	ND	0.0250	1	05/19/25	05/20/25	
o-Xylene	ND	0.0250	1	05/19/25	05/20/25	
p,m-Xylene	ND	0.0500	1	05/19/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/19/25	05/20/25	
Surrogate: 4-Bromochlorobenzene-PID		99.6 %	70-130	05/19/25	05/20/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2521006
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/25	05/20/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.8 %	70-130	05/19/25	05/20/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KH		Batch: 2521028
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/25	05/21/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/25	05/21/25	
Surrogate: n-Nonane		107 %	61-141	05/19/25	05/21/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: JM		Batch: 2521018
Chloride	2420	20.0	1	05/19/25	05/19/25	



Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/23/2025 7:40:38AM

BH03-6' E505199-04

		E303177-04				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2521006
Benzene	ND	0.0250	1	05/19/25	05/20/25	
Ethylbenzene	ND	0.0250	1	05/19/25	05/20/25	
oluene	ND	0.0250	1	05/19/25	05/20/25	
-Xylene	ND	0.0250	1	05/19/25	05/20/25	
o,m-Xylene	ND	0.0500	1	05/19/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/19/25	05/20/25	
Surrogate: 4-Bromochlorobenzene-PID		99.7 %	70-130	05/19/25	05/20/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2521006
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/25	05/20/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.3 %	70-130	05/19/25	05/20/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KH		Batch: 2521028
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/25	05/21/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/25	05/21/25	
Surrogate: n-Nonane		108 %	61-141	05/19/25	05/21/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: JM		Batch: 2521018
Chloride	1650	20.0	1	05/19/25	05/19/25	



Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/23/2025 7:40:38AM

BH03-8'

E505199-05

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2521006
Benzene	ND	0.0250	1	05/19/25	05/20/25	
Ethylbenzene	ND	0.0250	1	05/19/25	05/20/25	
Toluene	ND	0.0250	1	05/19/25	05/20/25	
o-Xylene	ND	0.0250	1	05/19/25	05/20/25	
p,m-Xylene	ND	0.0500	1	05/19/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/19/25	05/20/25	
Surrogate: 4-Bromochlorobenzene-PID		100 %	70-130	05/19/25	05/20/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2521006
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/25	05/20/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.5 %	70-130	05/19/25	05/20/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KH		Batch: 2521028
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/25	05/21/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/25	05/21/25	
Surrogate: n-Nonane		108 %	61-141	05/19/25	05/21/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: JM		Batch: 2521018



Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/23/2025 7:40:38AM

BH03-10' E505199-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: BA		Batch: 2521006
Benzene	ND	0.0250	1	05/19/25	05/20/25	
Ethylbenzene	ND	0.0250	1	05/19/25	05/20/25	
Toluene	ND	0.0250	1	05/19/25	05/20/25	
o-Xylene	ND	0.0250	1	05/19/25	05/20/25	
p,m-Xylene	ND	0.0500	1	05/19/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/19/25	05/20/25	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	05/19/25	05/20/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: BA		Batch: 2521006
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/25	05/20/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.4 %	70-130	05/19/25	05/20/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: KH		Batch: 2521028
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/25	05/21/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/25	05/21/25	
Surrogate: n-Nonane		105 %	61-141	05/19/25	05/21/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: JM		Batch: 2521018
Chloride	145	20.0	1	05/19/25	05/19/25	·



Matador Resources, LLC.Project Name:Marbob State 001 SWD5400 LBJ Freeway, Suite 1500Project Number:23003-0002Reported:Dallas TX, 75240Project Manager:Ashley Giovengo5/23/2025 7:40:38AM

BH04-0'

E505199-07

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	Analyst: BA		Batch: 2521006
Benzene	ND	0.0250	1	05/19/25	05/20/25	
Ethylbenzene	ND	0.0250	1	05/19/25	05/20/25	
Toluene	ND	0.0250	1	05/19/25	05/20/25	
o-Xylene	ND	0.0250	1	05/19/25	05/20/25	
p,m-Xylene	ND	0.0500	1	05/19/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/19/25	05/20/25	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	05/19/25	05/20/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: BA		Batch: 2521006
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/25	05/20/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.7 %	70-130	05/19/25	05/20/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KH		Batch: 2521028
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/25	05/21/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/25	05/21/25	
Surrogate: n-Nonane		105 %	61-141	05/19/25	05/21/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: JM		Batch: 2521018
Chloride	1890	20.0	1	05/19/25	05/19/25	



Matador Resources, LLC.Project Name:Marbob State 001 SWD5400 LBJ Freeway, Suite 1500Project Number:23003-0002Reported:Dallas TX, 75240Project Manager:Ashley Giovengo5/23/2025 7:40:38AM

BH04-1'

E505199-08

		2000177 00				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Analyte	Result	Lillit	Dilution	Frepared	Anaryzeu	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	Analyst: BA		Batch: 2521006
Benzene	ND	0.0250	1	05/19/25	05/20/25	
Ethylbenzene	ND	0.0250	1	05/19/25	05/20/25	
Toluene	ND	0.0250	1	05/19/25	05/20/25	
o-Xylene	ND	0.0250	1	05/19/25	05/20/25	
p,m-Xylene	ND	0.0500	1	05/19/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/19/25	05/20/25	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	05/19/25	05/20/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	rst: BA		Batch: 2521006
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/25	05/20/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.9 %	70-130	05/19/25	05/20/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	rst: KH		Batch: 2521028
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/25	05/21/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/25	05/21/25	
Surrogate: n-Nonane		106 %	61-141	05/19/25	05/21/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	rst: JM		Batch: 2521018
Chloride	798	20.0	1	05/19/25	05/19/25	



Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/23/2025 7:40:38AM

BH04-2'

		E505199-09				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2521006
Benzene	ND	0.0250	1	05/19/25	05/20/25	
Ethylbenzene	ND	0.0250	1	05/19/25	05/20/25	
Toluene	ND	0.0250	1	05/19/25	05/20/25	
o-Xylene	ND	0.0250	1	05/19/25	05/20/25	
p,m-Xylene	ND	0.0500	1	05/19/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/19/25	05/20/25	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	05/19/25	05/20/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2521006
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/25	05/20/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.8 %	70-130	05/19/25	05/20/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KH		Batch: 2521028
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/25	05/21/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/25	05/21/25	
Surrogate: n-Nonane		113 %	61-141	05/19/25	05/21/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: JM		Batch: 2521018
Chloride	400	20.0	1	05/19/25	05/19/25	



Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/23/2025 7:40:38AM

BH04-3' E505199-10

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	Analyst: BA		Batch: 2521006
Benzene	ND	0.0250	1	05/19/25	05/20/25	
Ethylbenzene	ND	0.0250	1	05/19/25	05/20/25	
Toluene	ND	0.0250	1	05/19/25	05/20/25	
o-Xylene	ND	0.0250	1	05/19/25	05/20/25	
p,m-Xylene	ND	0.0500	1	05/19/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/19/25	05/20/25	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	05/19/25	05/20/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: BA		Batch: 2521006
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/25	05/20/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.3 %	70-130	05/19/25	05/20/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: KH		Batch: 2521028
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/25	05/21/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/25	05/21/25	
Surrogate: n-Nonane		107 %	61-141	05/19/25	05/21/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: JM		Batch: 2521018
Chloride	246	20.0	1	05/19/25	05/19/25	



QC Summary Data

Matador Resources, LLC.Project Name:Marbob State 001 SWDReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo5/23/2025 7:40:38AM

Dallas TX, 75240		Project Manager:	As	shley Giovengo				5/	23/2025 7:40:38AM		
		Volatile O	rganics b	oy EPA 8021	В			Analyst: BA			
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit			
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes		
Blank (2521006-BLK1)							Prepared: 0:	5/19/25 Ana	lyzed: 05/19/25		
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	8.07		8.00		101	70-130					
LCS (2521006-BS1)							Prepared: 0:	5/19/25 Ana	lyzed: 05/19/25		
Benzene	5.32	0.0250	5.00		106	70-130					
Ethylbenzene	5.44	0.0250	5.00		109	70-130					
Toluene	5.43	0.0250	5.00		109	70-130					
o-Xylene	5.36	0.0250	5.00		107	70-130					
p,m-Xylene	11.0	0.0500	10.0		110	70-130					
Total Xylenes	16.3	0.0250	15.0		109	70-130					
Surrogate: 4-Bromochlorobenzene-PID	8.01		8.00		100	70-130					
Matrix Spike (2521006-MS1)				Source: E	505199-	07	Prepared: 0:	5/19/25 Ana	lyzed: 05/20/25		
Benzene	5.24	0.0250	5.00	ND	105	70-130					
Ethylbenzene	5.33	0.0250	5.00	ND	107	70-130					
Toluene	5.33	0.0250	5.00	ND	107	70-130					
p-Xylene	5.25	0.0250	5.00	ND	105	70-130					
p,m-Xylene	10.7	0.0500	10.0	ND	107	70-130					
Total Xylenes	16.0	0.0250	15.0	ND	107	70-130					
Surrogate: 4-Bromochlorobenzene-PID	8.05		8.00		101	70-130					
Matrix Spike Dup (2521006-MSD1)				Source: E	505199-	07	Prepared: 0:	5/19/25 Ana	lyzed: 05/20/25		
Benzene	5.31	0.0250	5.00	ND	106	70-130	1.19	27			
Ethylbenzene	5.44	0.0250	5.00	ND	109	70-130	1.92	26			
Toluene	5.42	0.0250	5.00	ND	108	70-130	1.63	20			
o-Xylene	5.36	0.0250	5.00	ND	107	70-130	2.00	25			
p,m-Xylene	11.0	0.0500	10.0	ND	110	70-130	2.03	23			
Total Xylenes	16.3	0.0250	15.0	ND	109	70-130	2.02	26			

8.00

101

70-130



Surrogate: 4-Bromochlorobenzene-PID

Surrogate: 1-Chloro-4-fluorobenzene-FID

7.64

QC Summary Data

Matador Resources, LLC.Project Name:Marbob State 001 SWDReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo5/23/20257:40:38AM

Dallas TX, 75240		Project Manage	r: As	shley Giovens	go			5/2	3/2025 7:40:38AN
	Nor	nhalogenated	Organics	by EPA 80	15D - G	RO		Analyst: BA	
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2521006-BLK1)							Prepared: 0	5/19/25 Anal	yzed: 05/19/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.48		8.00		93.5	70-130			
LCS (2521006-BS2)							Prepared: 0	5/19/25 Anal	yzed: 05/19/25
Gasoline Range Organics (C6-C10)	43.7	20.0	50.0		87.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.65		8.00		95.6	70-130			
Matrix Spike (2521006-MS2)				Source:	E505199-	07	Prepared: 0	5/19/25 Anal	yzed: 05/20/25
Gasoline Range Organics (C6-C10)	40.1	20.0	50.0	ND	80.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00		94.3	70-130			
Matrix Spike Dup (2521006-MSD2)				Source:	E505199-	07	Prepared: 0	5/19/25 Anal	yzed: 05/20/25
Gasoline Range Organics (C6-C10)	45.5	20.0	50.0	ND	90.9	70-130	12.6	20	

95.5

70-130

QC Summary Data

Matador Resources, LLC.Project Name:Marbob State 001 SWDReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo5/23/20257:40:38AM

,		, ,		, .	2					
	Nonhalogenated Organics by EPA 8015D - DRO/ORO								Analyst: KH	
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2521028-BLK1)							Prepared: 0	5/19/25 An	alyzed: 05/20/25	
Diesel Range Organics (C10-C28)	ND	25.0								
Oil Range Organics (C28-C36)	ND	50.0								
Surrogate: n-Nonane	50.6		50.0		101	61-141				
LCS (2521028-BS1)							Prepared: 0	5/19/25 An	alyzed: 05/21/25	
Diesel Range Organics (C10-C28)	270	25.0	250		108	66-144				
Surrogate: n-Nonane	51.7		50.0		103	61-141				
Matrix Spike (2521028-MS1)				Source:	E505197-	04	Prepared: 0	5/19/25 An	alyzed: 05/21/25	
Diesel Range Organics (C10-C28)	283	25.0	250	ND	113	56-156				
Surrogate: n-Nonane	52.4		50.0		105	61-141				
Matrix Spike Dup (2521028-MSD1)				Source:	E505197-	04	Prepared: 0	5/19/25 An	alyzed: 05/21/25	
Diesel Range Organics (C10-C28)	306	25.0	250	ND	122	56-156	7.70	20		
Surrogate: n-Nonane	52.0		50.0		104	61-141				



Chloride

Chloride

Matrix Spike Dup (2521018-MSD1)

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager	: 2	Marbob State 00 3003-0002 Ashley Gioveng				5	Reported: 5/23/2025 7:40:38AM
		Anions	by EPA	300.0/9056 <i>E</i>	4				Analyst: JM
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2521018-BLK1)							Prepared: 0	5/19/25 Ar	alyzed: 05/19/25
Chloride	ND	20.0							
LCS (2521018-BS1)							Prepared: 0	5/19/25 An	alyzed: 05/19/25
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2521018-MS1)				Source:	E505199-	.09	Prepared: 0	5/19/25 An	alyzed: 05/19/25

250

250

20.0

20.0

400

400

106

117

Source: E505199-09

80-120

80-120

4.19

Prepared: 05/19/25 Analyzed: 05/19/25

20

664

693

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 Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	05/23/25 07:40

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



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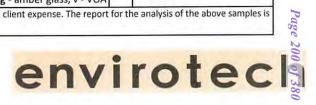
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						mpany: Ensolum LLC			Lab	WO	100	2	Job			0	1D	2D	3D S		NV	л с	O UT	TX	E
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	lanager: Ash					ty, State, Zip: Carlsbad NM, 88	220		-17					111											
	3122 Nation				Ph	one: 575-988-0055							Ana	alysis	and	Met	hod					EPA	Progra	m	
	e, Zip: Carls		88220		Er	mail: agiovengo@ensolum.co	m														SDWA		CWA	RCRA	A
Phone: 5	75-988-005	5			Mis	cellaneous:																			
Email: a	giovengo@e	nsolum.co	om							13	15							1		C	omplia	nce	Y	or N	V
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Time Sampled	Date Sampled	Matrix	No. of Container			Sample ID	Field	La Num	b ber	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - I	TCEQ 1005	RCRA 8 Metals					Re	emarks		
9:30	5/15/2025	S	1			BH3-0' BH03-0'		1							Х					(3.3		Co	rrec	ted
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11:21	5/15/2025	S	1			BH03-10'		6							х						3.4			TIVE	
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13:23	5/15/2025	S	1			BH04-3'		18)						х						3.4				
Addition	al Instruction	ns: Plea	se CC: c	burton@er	solum.com. a	giovengo@ensolum.com, cha	milton/	_		con	n ies	trell	a@er	nsoul	m co	m h	simr	none	Mans				-		
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I, (field samp	ler), attest to the	validity and	authentici	ty of this sampl	e. I am aware that	tampering with or intentionally mislabeling	g the sam	ple loca	tion.	date o	r time	of coll	ection i	s cons	dered	fraud	and ma	av be e	rounds f	or legal	action	_			
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	Clie	nt Inform	ation		(1)	Invoice Information	on				La	b Us	e On	ly	TAT					State			
Client: N	Matador Prod	uction Co	mpany		Co	ompany: Ensolum LLC		L	ab \	WO#			Job I	Num	ber		1D	2D	3D St	td	NM C	O UT	TX
Project:	Marbob Stae	#001 SW	D			ddress: 3122 National Parks			E5	051	90		230	03	. Cu	12			X		X		
Project N	Manager: Ash	nley Giove	engo		<u>Ci</u>	ty, State, Zip: Carlsbad NM,	88220																
Address:	3122 Nation	nal Parks	Hwy		Pł	none: 575-988-0055							Ana	alysis	and	Met	hod					Progra	
	te, Zip: Carls		88220		E	mail: agiovengo@ensolum	.com						17.1		(- ·						SDWA	CWA	RCRA
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9:30	5/15/2025	S	1			BH3-0'		1							Х						3.3		
9:50	5/15/2025	S	1			BH03-2'		2							х						3.9		
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13:14	5/15/2025	S	1			BH04-1'		8							х						3.2		
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Addition	nal Instructio	ns: Plea	se CC: cbu	ırton@ei	nsolum.com,	agiovengo@ensolum.com,	chamilto	n@ensc	olum	.cor	n, ies	trell	a@e	nsou	lm.c	om, l	osim	mons	@ensc	olur	n.com,		
igonzale	z@ensolum	com. bm	oir@enso	um.com.	oaderinto@	ensolum.com																	
l, (field sam	pler), attest to the	e validity and	authenticity	of this samp	le. I am aware tha	t tampering with or intentionally misla	beling the sa	ample loca	tion,	date o	r time	of col	ection	is con	sidere	d fraud	and m	nay be g	rounds fo	or leg	gal action.		
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Relinguish	ed by (Signatur	e) onzale	S Date	17.25	Time 0230	Received by: (Separture)	Date	5.19.2	25	Time	30)			Rec	eive	d on i	ice:	Lab		e Only		
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Sample Ma	trix: S - Soil, Sd - S	olid, Sg - Slu	dge, A - Aque	ous, O - Othe	er		Co	ontainer	Туре	: g -	glass,	p - p	oly/p	lastic	, ag -	amb	er gla	SS, V -	VOA				
						arrangements are made. Hazardou														or th	e analysis of t	he above	samples
						ne liability of the laboratory is limit							-										





Printed: 5/19/2025 10:17:32AM

Envirotech Analytical Laboratory

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 Resources, LLC.	Date Received:	05/19/25 (07:30		Work Order ID:	E505199
Phone:	(972) 371-5200	Date Logged In:	05/16/25	6:08		Logged In By:	Caitlin Mars
Email:	agiovengo@ensolum.com	Due Date:		17:00 (4 day TAT)		Logged III by.	Cartini Mars
Eman.	agio vongo (gonsorani. com	Due Date.	03/23/23				
Chain of	Custody (COC)						
1. Does th	ne sample ID match the COC?		No				
	ne number of samples per sampling site location mat	tch the COC	Yes				
3. Were sa	amples dropped off by client or carrier?		Yes	Carrier: C	Courier		
4. Was the	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes	-			
5. Were al	Il samples received within holding time?	•	Yes				
	Note: Analysis, such as pH which should be conducted in					Comment	s/Resolution
6 1 7	i.e, 15 minute hold time, are not included in this disucssion	on.				Comment	S/ACSOIGHOI
	COC is the standard TAT on Franciscal TATE		V		Sample 1	container did	not match coc
	COC indicate standard TAT, or Expedited TAT?		Yes		_		on COC per client.
Sample C			Yes		Confected	a sample name	on COC per chem.
	sample cooler received? was cooler received in good condition?						
•	-		Yes				
	e sample(s) received intact, i.e., not broken?		Yes				
	custody/security seals present?		No				
11. If yes,	were custody/security seals intact?		NA				
12. Was the	e sample received on ice?		Yes				
	Note: Thermal preservation is not required, if samples are 15 minutes of sampling	e received within					
13 See C	OC for individual sample temps. Samples outside or	f 0°C-6°C will be	recorded i	n comments			
Sample C				• • • • • • • • • • • • • • • • • •			
	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers'	?	Yes				
	appropriate volume/weight or number of sample contain		Yes				
Field Lab	· · ·		100				
	field sample labels filled out with the minimum info	ormation:					
	ample ID?		Yes				
	ate/Time Collected?		Yes				
	ollectors name?		Yes				
	reservation						
	the COC or field labels indicate the samples were pr	reserved?	No				
	ample(s) correctly preserved?	. 1.0	NA				
	filtration required and/or requested for dissolved me	etals?	No				
	se Sample Matrix						
	the sample have more than one phase, i.e., multipha		No				
27. If yes,	does the COC specify which phase(s) is to be analy	zed?	NA				
Subcontr	act Laboratory						
28. Are sa	imples required to get sent to a subcontract laborator	ry?	No				
29. Was a	subcontract laboratory specified by the client and it	f so who?	NA	Subcontract Lab	: NA		
Client In	<u>struction</u>						

Date

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

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Marbob State 001 SWD

Work Order: E505219

Job Number: 23003-0002

Received: 5/20/2025

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 5/27/25

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: 5/27/25

Ashley Giovengo 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240

Project Name: Marbob State 001 SWD

Workorder: E505219

Date Received: 5/20/2025 7:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/20/2025 7:45:00AM, under the Project Name: Marbob State 001 SWD.

The analytical test results summarized in this report with the Project Name: Marbob State 001 SWD 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 reguarding 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

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe

Laboratory Technical Representative Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

Michelle Gonzales

Client Representative

Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	Domonto do
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	05/27/25 11:26

Client Sample ID	Lab Sample ID M	Aatrix	Sampled	Received	Container
BH05-0'	E505219-01A	Soil	05/16/25	05/20/25	Glass Jar, 2 oz.
BH05-1'	E505219-02A	Soil	05/16/25	05/20/25	Glass Jar, 2 oz.
BH05-2'	E505219-03A	Soil	05/16/25	05/20/25	Glass Jar, 2 oz.
BH06-0'	E505219-04A	Soil	05/16/25	05/20/25	Glass Jar, 2 oz.
BH06-2'	E505219-05A	Soil	05/16/25	05/20/25	Glass Jar, 2 oz.
BH06-4'	E505219-06A	Soil	05/16/25	05/20/25	Glass Jar, 2 oz.
BH06-6'	E505219-07A	Soil	05/16/25	05/20/25	Glass Jar, 2 oz.
BH06-8'	E505219-08A	Soil	05/16/25	05/20/25	Glass Jar, 2 oz.
BH06-10'	E505219-09A	Soil	05/16/25	05/20/25	Glass Jar, 2 oz.
BH06-11'	E505219-10A	Soil	05/16/25	05/20/25	Glass Jar, 2 oz.



Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/27/2025 11:26:38AM

BH05-0' E505219-01

	E303219-01				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Anal	yst: SL		Batch: 2521046
ND	0.0250	1	05/20/25	05/22/25	
ND	0.0250	1	05/20/25	05/22/25	
ND	0.0250	1	05/20/25	05/22/25	
ND	0.0250	1	05/20/25	05/22/25	
ND	0.0500	1	05/20/25	05/22/25	
ND	0.0250	1	05/20/25	05/22/25	
	86.7 %	70-130	05/20/25	05/22/25	
mg/kg	mg/kg	Anal	yst: SL		Batch: 2521046
ND	20.0	1	05/20/25	05/22/25	
	94.4 %	70-130	05/20/25	05/22/25	
mg/kg	mg/kg	Anal	yst: HM		Batch: 2521103
ND	25.0	1	05/21/25	05/23/25	
ND	50.0	1	05/21/25	05/23/25	
	105 %	61-141	05/21/25	05/23/25	
mg/kg	mg/kg	Anal	yst: DT		Batch: 2521071
333	20.0	1	05/21/25	05/22/25	
	mg/kg ND Mg/kg ND mg/kg	Result Reporting mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 86.7 % mg/kg mg/kg mg/kg ND 20.0 94.4 % mg/kg ND 25.0 ND 50.0 105 % mg/kg mg/kg mg/kg	Reporting Result Limit Dilution mg/kg mg/kg Analy ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 MD 0.0250 1 MD 0.0250 1 Mg/kg mg/kg Analy ND 20.0 1 Mg/kg mg/kg Analy ND 25.0 1 ND 50.0 1 105 % 61-141 61-141 mg/kg mg/kg Analy	Reporting Result Limit Dilution Prepared mg/kg Analyst: SL ND 0.0250 1 05/20/25 ND 0.0250 1 05/20/25 ND 0.0250 1 05/20/25 ND 0.0250 1 05/20/25 ND 0.0500 1 05/20/25 ND 0.0250 1 05/20/25 mg/kg Mallyst: SL ND 05/20/25 mg/kg Mallyst: SL ND 05/20/25 mg/kg Mg/kg Analyst: HM ND 25.0 1 05/21/25 ND 50.0 1 05/21/25 ND 50.0 1 05/21/25 mg/kg Mg/kg Analyst: HM	Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: SL ND 0.0250 1 05/20/25 05/22/25 ND 0.0250 1 05/20/25 05/22/25 ND 0.0250 1 05/20/25 05/22/25 ND 0.0500 1 05/20/25 05/22/25 ND 0.0250 1 05/20/25 05/22/25 ND 0.0250 1 05/20/25 05/22/25 MD 0.0250 1 05/20/25 05/22/25 mg/kg mg/kg Analyst: SL ND 20.0 1 05/20/25 05/22/25 mg/kg mg/kg Analyst: HM ND 25.0 1 05/21/25 05/23/25 ND 50.0 1 05/21/25 05/23/25 ND 50.0 1 05/21/25 05/23/25 ND 50.0 1 05/21/25

Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/27/2025 11:26:38AM

BH05-1' E505219-02

	Reporting				
Result	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analys	st: SL		Batch: 2521046
ND	0.0250	1	05/20/25	05/22/25	
ND	0.0250	1	05/20/25	05/22/25	
ND	0.0250	1	05/20/25	05/22/25	
ND	0.0250	1	05/20/25	05/22/25	
ND	0.0500	1	05/20/25	05/22/25	
ND	0.0250	1	05/20/25	05/22/25	
	87.7 %	70-130	05/20/25	05/22/25	
mg/kg	mg/kg	Analys	st: SL		Batch: 2521046
ND	20.0	1	05/20/25	05/22/25	
	95.0 %	70-130	05/20/25	05/22/25	
mg/kg	mg/kg	Analys	st: HM		Batch: 2521103
ND	25.0	1	05/21/25	05/23/25	
ND	50.0	1	05/21/25	05/23/25	
			05/01/05	05/22/25	
	106 %	61-141	05/21/25	05/23/25	
mg/kg	106 % mg/kg	61-141 Analys		03/23/23	Batch: 2521071
	mg/kg ND ND ND ND ND ND ND ND ND N	mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0500 ND 0.0250 87.7 % mg/kg MD 20.0 95.0 % mg/kg ND 25.0 ND 25.0	Result Limit Dilution mg/kg mg/kg Analys ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 87.7 % 70-130 mg/kg mg/kg Analys ND 20.0 1 mg/kg mg/kg Analys ND 25.0 % 70-130	Result Limit Dilution Prepared mg/kg mg/kg Analyst: SL ND 0.0250 1 05/20/25 ND 0.0250 1 05/20/25 ND 0.0250 1 05/20/25 ND 0.0250 1 05/20/25 ND 0.0500 1 05/20/25 ND 0.0250 1 05/20/25 mg/kg mg/kg Analyst: SL ND 20.0 1 05/20/25 mg/kg mg/kg Analyst: HM ND 25.0 1 05/21/25	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: SL ND 0.0250 1 05/20/25 05/22/25 ND 0.0250 1 05/20/25 05/22/25 ND 0.0250 1 05/20/25 05/22/25 ND 0.0500 1 05/20/25 05/22/25 ND 0.0250 1 05/20/25 05/22/25 ND 0.0250 1 05/20/25 05/22/25 87.7 % 70-130 05/20/25 05/22/25 mg/kg mg/kg Analyst: SL ND 20.0 1 05/20/25 05/22/25 mg/kg mg/kg Analyst: HM ND 25.0 1 05/21/25 05/23/25



Matador Resources, LLC.Project Name:Marbob State 001 SWD5400 LBJ Freeway, Suite 1500Project Number:23003-0002Reported:Dallas TX, 75240Project Manager:Ashley Giovengo5/27/2025 11:26:38AM

BH06-0'

E505219-04

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	rst: SL		Batch: 2521046
Benzene	ND	0.0250	1	05/20/25	05/22/25	
Ethylbenzene	ND	0.0250	1	05/20/25	05/22/25	
Toluene	ND	0.0250	1	05/20/25	05/22/25	
o-Xylene	ND	0.0250	1	05/20/25	05/22/25	
p,m-Xylene	ND	0.0500	1	05/20/25	05/22/25	
Total Xylenes	ND	0.0250	1	05/20/25	05/22/25	
Surrogate: 4-Bromochlorobenzene-PID		87.5 %	70-130	05/20/25	05/22/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	rst: SL		Batch: 2521046
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/20/25	05/22/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.1 %	70-130	05/20/25	05/22/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	rst: HM		Batch: 2521103
Diesel Range Organics (C10-C28)	209	25.0	1	05/21/25	05/27/25	
Oil Range Organics (C28-C36)	163	50.0	1	05/21/25	05/27/25	
Surrogate: n-Nonane		89.0 %	61-141	05/21/25	05/27/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	rst: DT		Batch: 2521071
Chloride	16500	400	20	05/21/25	05/22/25	



Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/27/2025 11:26:38AM

BH06-2'

		E505219-05				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: SL		Batch: 2521046
Benzene	ND	0.0250	1	05/20/25	05/22/25	
Ethylbenzene	ND	0.0250	1	05/20/25	05/22/25	
Toluene	ND	0.0250	1	05/20/25	05/22/25	
o-Xylene	ND	0.0250	1	05/20/25	05/22/25	
o,m-Xylene	ND	0.0500	1	05/20/25	05/22/25	
Total Xylenes	ND	0.0250	1	05/20/25	05/22/25	
Surrogate: 4-Bromochlorobenzene-PID		87.1 %	70-130	05/20/25	05/22/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2521046
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/20/25	05/22/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.8 %	70-130	05/20/25	05/22/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: HM		Batch: 2521103
Diesel Range Organics (C10-C28)	ND	25.0	1	05/21/25	05/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/21/25	05/23/25	
Surrogate: n-Nonane		101 %	61-141	05/21/25	05/23/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2521071
Chloride	1170	40.0	2	05/21/25	05/23/25	



Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/27/2025 11:26:38AM

BH06-4' E505219-06

		E303217-00				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: SL		Batch: 2521046
Benzene	ND	0.0250	1	05/20/25	05/22/25	
Ethylbenzene	ND	0.0250	1	05/20/25	05/22/25	
Toluene	ND	0.0250	1	05/20/25	05/22/25	
o-Xylene	ND	0.0250	1	05/20/25	05/22/25	
p,m-Xylene	ND	0.0500	1	05/20/25	05/22/25	
Total Xylenes	ND	0.0250	1	05/20/25	05/22/25	
Surrogate: 4-Bromochlorobenzene-PID		86.4 %	70-130	05/20/25	05/22/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: SL		Batch: 2521046
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/20/25	05/22/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.8 %	70-130	05/20/25	05/22/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: HM		Batch: 2521103
Diesel Range Organics (C10-C28)	ND	25.0	1	05/21/25	05/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/21/25	05/23/25	
Surrogate: n-Nonane		105 %	61-141	05/21/25	05/23/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: DT		Batch: 2521071
Chloride	1360	20.0	1	05/21/25	05/23/25	



Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/27/2025 11:26:38AM

BH06-6' E505219-07

		1303217 07				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: SL		Batch: 2521046
Benzene	ND	0.0250	1	05/20/25	05/22/25	
Ethylbenzene	ND	0.0250	1	05/20/25	05/22/25	
Toluene	ND	0.0250	1	05/20/25	05/22/25	
o-Xylene	ND	0.0250	1	05/20/25	05/22/25	
o,m-Xylene	ND	0.0500	1	05/20/25	05/22/25	
Total Xylenes	ND	0.0250	1	05/20/25	05/22/25	
Surrogate: 4-Bromochlorobenzene-PID		85.7 %	70-130	05/20/25	05/22/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: SL		Batch: 2521046
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/20/25	05/22/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.0 %	70-130	05/20/25	05/22/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: HM		Batch: 2521103
Diesel Range Organics (C10-C28)	ND	25.0	1	05/21/25	05/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/21/25	05/23/25	
Surrogate: n-Nonane		105 %	61-141	05/21/25	05/23/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: DT		Batch: 2521071
Chloride	1880	40.0	2	05/21/25	05/23/25	



Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/27/2025 11:26:38AM

BH06-8'

E505219-08

		Reporting				
Analyte	Result	Limit	Diluti	on Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	A	nalyst: SL		Batch: 2521046
Benzene	ND	0.0250	1	05/20/25	05/22/25	
Ethylbenzene	ND	0.0250	1	05/20/25	05/22/25	
Toluene	ND	0.0250	1	05/20/25	05/22/25	
o-Xylene	ND	0.0250	1	05/20/25	05/22/25	
p,m-Xylene	ND	0.0500	1	05/20/25	05/22/25	
Total Xylenes	ND	0.0250	1	05/20/25	05/22/25	
Surrogate: 4-Bromochlorobenzene-PID		89.4 %	70-130	05/20/25	05/22/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: SL		Batch: 2521046
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/20/25	05/22/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.2 %	70-130	05/20/25	05/22/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: HM		Batch: 2521103
Diesel Range Organics (C10-C28)	ND	25.0	1	05/21/25	05/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/21/25	05/23/25	
Surrogate: n-Nonane		108 %	61-141	05/21/25	05/23/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: DT		Batch: 2521071
Chloride	1320	20.0	1	05/21/25	05/23/25	·



Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/27/2025 11:26:38AM

BH06-10' E505219-09

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	lyst: SL		Batch: 2521046
Benzene	ND	0.0250	1	05/20/25	05/22/25	
Ethylbenzene	ND	0.0250	1	05/20/25	05/22/25	
Toluene	ND	0.0250	1	05/20/25	05/22/25	
o-Xylene	ND	0.0250	1	05/20/25	05/22/25	
p,m-Xylene	ND	0.0500	1	05/20/25	05/22/25	
Total Xylenes	ND	0.0250	1	05/20/25	05/22/25	
Surrogate: 4-Bromochlorobenzene-PID		85.4 %	70-130	05/20/25	05/22/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	lyst: SL		Batch: 2521046
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/20/25	05/22/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.7 %	70-130	05/20/25	05/22/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	lyst: HM		Batch: 2521103
Diesel Range Organics (C10-C28)	ND	25.0	1	05/21/25	05/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/21/25	05/23/25	
Surrogate: n-Nonane		104 %	61-141	05/21/25	05/23/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	lyst: DT		Batch: 2521071
Chloride	732	20.0	1	05/21/25	05/23/25	



Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/27/2025 11:26:38AM

BH06-11' E505219-10

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: SL		Batch: 2521046
Benzene	ND	0.0250	1	05/20/25	05/22/25	
Ethylbenzene	ND	0.0250	1	05/20/25	05/22/25	
Toluene	ND	0.0250	1	05/20/25	05/22/25	
o-Xylene	ND	0.0250	1	05/20/25	05/22/25	
p,m-Xylene	ND	0.0500	1	05/20/25	05/22/25	
Total Xylenes	ND	0.0250	1	05/20/25	05/22/25	
Surrogate: 4-Bromochlorobenzene-PID		82.5 %	70-130	05/20/25	05/22/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2521046
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/20/25	05/22/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.2 %	70-130	05/20/25	05/22/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: HM		Batch: 2521103
Diesel Range Organics (C10-C28)	ND	25.0	1	05/21/25	05/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/21/25	05/23/25	
Surrogate: n-Nonane		102 %	61-141	05/21/25	05/23/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2521071
Chloride	208	20.0	1	05/21/25	05/23/25	



QC Summary Data

Marbob State 001 SWD Matador Resources, LLC. Project Name: Reported: 5400 LBJ Freeway, Suite 1500 Project Number: 23003-0002 Dallas TX, 75240 Project Manager: Ashley Giovengo 5/27/2025 11:26:38AM **Volatile Organics by EPA 8021B** Analyst: SL RPD Reporting Spike Source Rec Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2521046-BLK1) Prepared: 05/20/25 Analyzed: 05/22/25 ND 0.0250 ND Ethylbenzene 0.0250 ND Toluene 0.0250 ND 0.0250 o-Xylene ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.25 8.00 90.6 70-130 LCS (2521046-BS1) Prepared: 05/20/25 Analyzed: 05/22/25 5.88 5.00 118 70-130 0.0250 Benzene Ethylbenzene 5.77 0.0250 5.00 115 70-130 117 70-130 Toluene 5.84 0.0250 5.00 5.70 114 70-130 o-Xylene 0.0250 5.00 11.6 0.0500 10.0 116 70-130 p,m-Xylene 116 70-130 17.3 0.0250 15.0 Total Xylenes 8.00 90.7 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.26 Source: E505219-08 Matrix Spike (2521046-MS1) Prepared: 05/20/25 Analyzed: 05/22/25

							- ·
Benzene	5.39	0.0250	5.00	ND	108	70-130	
Ethylbenzene	5.29	0.0250	5.00	ND	106	70-130	
Toluene	5.35	0.0250	5.00	ND	107	70-130	
o-Xylene	5.21	0.0250	5.00	ND	104	70-130	
p,m-Xylene	10.7	0.0500	10.0	ND	107	70-130	
Total Xylenes	15.9	0.0250	15.0	ND	106	70-130	
Surrogate: 4-Bromochlorobenzene-PID	7.13		8.00		89.1	70-130	
Matrix Spike Dup (2521046-MSD1)				Source:	E505219-	08	Prepared: 05/20/25 Analyzed: 05/22/25

Matrix Spike Dup (2521046-MSD1)					Source: E505219-08			Prepared: 05/20/25 Analyzed: 05/22/25		
Benzene	5.55	0.0250	5.00	ND	111	70-130	2.93	27		
Ethylbenzene	5.44	0.0250	5.00	ND	109	70-130	2.78	26		
Toluene	5.51	0.0250	5.00	ND	110	70-130	2.86	20		
o-Xylene	5.36	0.0250	5.00	ND	107	70-130	2.83	25		
p,m-Xylene	11.0	0.0500	10.0	ND	110	70-130	2.75	23		
Total Xylenes	16.3	0.0250	15.0	ND	109	70-130	2.78	26		
Surrogate: 4-Bromochlorobenzene-PID	7.13		8.00		89.1	70-130				

Gasoline Range Organics (C6-C10)

Surrogate: 1-Chloro-4-fluorobenzene-FID

QC Summary Data

Matador Resources, LLC.Project Name:Marbob State 001 SWDReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo5/27/2025 11:26:38AM

	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
Blank (2521046-BLK1)							Prepared: 0:	5/20/25 Ana	lyzed: 05/22/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.56		8.00		94.5	70-130			
LCS (2521046-BS2)							Prepared: 0:	5/20/25 Ana	lyzed: 05/22/25
Gasoline Range Organics (C6-C10)	44.5	20.0	50.0		88.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.72		8.00		96.5	70-130			
Matrix Spike (2521046-MS2)				Source:	E505219-0)8	Prepared: 0:	5/20/25 Ana	lyzed: 05/22/25
	41.0	20.0	50.0	ND	82.0	70-130			
Gasoline Range Organics (C6-C10)	41.0	20.0							

50.0

8.00

ND

70-130

70-130

96.0

9.88

20

45.3

7.68

20.0

QC Summary Data

Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	-
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/27/2025 11:26:38AM

Dallas 1A, 73240		Project Manager	: As	mey Gloveng	30				5/2//2025 11.20.36AI
	Nonhal	logenated Or	ganics by l	EPA 8015I) - DRO	ORO			Analyst: HM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2521103-BLK1)							Prepared: 0	5/21/25 A	nalyzed: 05/23/25
iesel Range Organics (C10-C28)	ND	25.0							
il Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	50.8		50.0		102	61-141			
CS (2521103-BS1)							Prepared: 0	5/21/25 A	nalyzed: 05/23/25
iesel Range Organics (C10-C28)	261	25.0	250		104	66-144			
urrogate: n-Nonane	50.8		50.0		102	61-141			
latrix Spike (2521103-MS1)				Source:	E505219-0	02	Prepared: 0	5/21/25 A	nalyzed: 05/23/25
iesel Range Organics (C10-C28)	266	25.0	250	ND	107	56-156			
urrogate: n-Nonane	53.2		50.0		106	61-141			
1atrix Spike Dup (2521103-MSD1)				Source:	E505219-0	02	Prepared: 0	5/21/25 A	nalyzed: 05/23/25
iesel Range Organics (C10-C28)	263	25.0	250	ND	105	56-156	1.40	20	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500	Project Name: Project Number:	Marbob State 001 SWD 23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/27/2025 11:26:38AM
	Anions by 1	EPA 300.0/9056A	Analyst: DT

		Analyst: DT							
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2521071-BLK1)							Prepared: 0	5/21/25 Ar	nalyzed: 05/22/25
Chloride	ND	20.0							
LCS (2521071-BS1)							Prepared: 0	5/21/25 Ar	nalyzed: 05/22/25
Chloride	259	20.0	250		104	90-110			
Matrix Spike (2521071-MS1)				Source:	E505219-	03	Prepared: 0	5/21/25 Ar	nalyzed: 05/22/25
Chloride	484	20.0	250	212	109	80-120			
Matrix Spike Dup (2521071-MSD1)				Source:	E505219-	03	Prepared: 0	5/21/25 Ar	nalyzed: 05/22/25
Chloride	490	20.0	250	212	111	80-120	1.39	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 Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	05/27/25 11:26

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



Received by OCD: 9/18/2025 7:44:40 AM

Chain of Custody

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Page	of	1
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	Clie	nt Inform	ation	-		Invoice Information	-		-	-	10	h He	e On	ls.	-	-		TAT		[Child
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	Marbob State							Lab V	6 WO# Job Numb						> -	LD	2D 3	D S	td NM CO UT TX	
	Manager: Asl				_	ity, State, Zip: Carlsbad NM, 8822		-	E-	201-45 ld K2002.						-	_		^	
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	75-988-005		56220		1	mail: agiovengo@ensolum.com														SDWA CWA RCRA
	giovengo@e		nm.		livii	iscellaneous:														
Linaii. a	siovengo@e	iisoiuiii.cc	JIII		4		-			8015	3015							- 1		Compliance Y or N
-	-			Sample I	nformat	ion	-			by 8	by 8	8021	8260	300.0	NN	¥.	etals		5	PWSID#
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9:28	5/16/2025	-				BH05-0'			-		0	-		0		-	-		Ť	
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9:30	5/16/2025	S	1			BH05-1'		0		- 11	100				V					,
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9:34	5/16/2025	S	1			BH05-2'		2							Х				0	Only run for BGDOC if BH05-1' is greater than 100
								3	-						^				6.	Z TPH or 600 CI
10:50	5/16/2025	S	1	100		BH06-0'		11							X				2.	9
11:03	5/16/2025					pugg at		7								-	-		4.	
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11:28	5/16/2025				-	BH06-4'	+				-	-					+		-	· Corrected Des
11.20		S	1			БПОО-4		0							X				0	1 (1:1)
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13:19	5/16/2025	S	1			BH06-8'		8							х	1				10100
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13:36	5/16/2025	S	1			BH06-10'		9		7					X				2	1
14.17	5/16/2025							1							^		_		-	Bindo-10'
14:17	3/10/2023	S	1			BH06-11'		10							X				2	Only run for BGDOC if-BH10-10 is greater than
Addition	al Instruction	acı Dioa	co CC: chi	rton@onsolu	m com	agiavanga @ansalum asm akam	114		l											
						agiovengo@ensolum.com, cham ensolum.com	ntone	venso	ium.	com	, ies	trella	@er	isoul	n.co	m, bs	mm	ons@	enso	ium.com,
I, (field samp	ler), attest to the	validity and	authenticity	of this sample. I an	n aware tha	at tampering with or intentionally mislabeling	the sam	ple locat	tion, d	ate or	time o	of colle	ection i	s consi	dered f	raud an	d may	he gro	inds fo	r legal action
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	ix: S - Soil, Sd - So les are discarde				acc other	arrangements are made. Hazardous samp	Cont	ainer T	ype:	g - g	idSS,	p - pc	ny/pi	astic,	ag - ai	mber	giass	, v - V()A	
						ne liability of the laboratory is limited to t							usea o	at th	e clien	expe	ise. I	ne rep	ort for	the analysis of the above samples is



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	Clie	nt Inform	nation		7 7	Invo	oice Information	on			La	b Use	Onl	ly				TAT			Sta	:e
Project:N	latador Prod larbob State lanager: Ash	#001 SW	/D		Addr		olum LLC National Parks Carlsbad NM,		Lab E	wo#	न्री	9	ob N	Numb	oer 000	2	1D 2	D 31	D Std X	NN X	/ CO UT	TX
	3122 Nation					e: 575-98		00220	_				Ana	lvsis	and	Meth	nod				EPA Progr	am
	e, Zip: Carlsl						ngo@ensolum	n.com			- 1	11	T	,						SDWA		RCRA
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Time Sampled	Date Sampled	Matrix	No. of Containers			ample ID		Field	Lab Number	DRO/ORO	GRO/DRO by	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005	RCRA 8 Metals		Temp		Remark	S
9:28	5/16/2025	S	1			H05-0'			1						Х				0.4	9		
9:30	5/16/2025	S	1		В	H05-1'			2						X				1.1			
9:34	5/16/2025	S	1		В	BH05-2'			3						X				2.2	Only run for l	TPH or 600 C	
10:50	5/16/2025	S	1		BH06-0'				4						Х				2.9			
11:03	5/16/2025	S	1		Е	3H06-2'			5						Х				2.4	1		
11:28	5/16/2025	S	1		BH06-4'				6						Х				0.7			
11:37	5/16/2025	S	1		Е	3H06-6'			7						X				0.9			
13:19	5/16/2025	S	1		Е	3H06-8'			8						X				20	1		
13:36	5/16/2025	S	1		В	H06-10'			9						Х				21			
14:17	5/16/2025	S	1		В	H06-11'			10						х				2.4	Only run fo	BGDOC if BH10- 100 TPH or 600	
gonzalez (field samp ampled by:	@ensolum.oler), attest to the	com. bme validity and Kone	oir@enso	urton@ensolui lum.com. oade of this sample. I am	aware that tar	olum.com	r intentionally misla		nple location						idered	fraud a	and may	be grou	inds for	egal action.	d on ice the da 0 but less thar	Contract to
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client expense. The report for the analysis of the above samples is

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environment analysis of the above samples is

Printed: 5/21/2025 9:07:27AM

Envirotech Analytical Laboratory

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 Resources, LLC.	Date Received:	05/20/25 0	7:45	Work Order ID: E505219	
Phone:	(972) 371-5200	Date Logged In:	05/19/25 1	4:28	Logged In By: Caitlin Mars	
Email:		Due Date:		7:00 (4 day TAT)	<i>3</i> 0 ,	
1. Does th 2. Does th 3. Were sa 4. Was the	Custody (COC) e sample ID match the COC? e number of samples per sampling site location matc imples dropped off by client or carrier? cCOC complete, i.e., signatures, dates/times, requested l samples received within holding time?	ed analyses?	Yes Yes Yes Yes Yes	Carrier: <u>C</u>	<u>Courier</u>	
	Note: Analysis, such as pH which should be conducted in ti.e, 15 minute hold time, are not included in this disucssion				Comments/Resolution	
Sample T	urn Around Time (TAT)	l.				
	COC indicate standard TAT, or Expedited TAT?		Yes		Client remarks- Do not run Sample 3 if	
Sample C	•				BH05-1 is greater then 100 TPH or 600	
	ample cooler received?		Yes		CL. Do not run sample 10 if BH06-10 is	
8. If yes, v	was cooler received in good condition?		Yes		greater than 100 TPH or 600 CL.	
9. Was the	sample(s) received intact, i.e., not broken?		Yes		greater than 100 11 11 of 000 CL.	
10. Were	custody/security seals present?		No			
	were custody/security seals intact?		NA			
	e sample received on ice? Note: Thermal preservation is not required, if samples are 15 minutes of sampling OC for individual sample temps. Samples outside of		Yes	n comments		
Sample C	• • •		10001404			
	ueous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers?		Yes			
	ppropriate volume/weight or number of sample containe	ers collected?	Yes			
Field Lab	•					
20. Were to Sa	Tield sample labels filled out with the minimum infortumple ID? ate/Time Collected? bllectors name?	mation:	Yes Yes Yes			
Sample P	reservation					
21. Does t	he COC or field labels indicate the samples were pre	served?	No			
22. Are sa	mple(s) correctly preserved?		NA			
24. Is lab	filtration required and/or requested for dissolved met	als?	No			
Multipha	se Sample Matrix					
26. Does t	he sample have more than one phase, i.e., multiphase	?	No			
27. If yes,	does the COC specify which phase(s) is to be analyz	red?	NA			
Subcontr	act Laboratory					
	mples required to get sent to a subcontract laboratory	1?	No			
	subcontract laboratory specified by the client and if		NA	Subcontract Lab	o: NA	
	struction_				••••	
Chent in	struction					

Date

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





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Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Marbob State 001 SWD

Work Order: E505236

Job Number: 23003-0002

Received: 5/21/2025

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 5/28/25

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: 5/28/25

Ashley Giovengo 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240

Project Name: Marbob State 001 SWD

Workorder: E505236

Date Received: 5/21/2025 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/21/2025 8:00:00AM, under the Project Name: Marbob State 001 SWD.

The analytical test results summarized in this report with the Project Name: Marbob State 001 SWD 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 reguarding 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

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Laboratory Administrator Office: 505-632-1881

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Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Γ	Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	Donoutoda
١	5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
l	Dallas TX, 75240	Project Manager:	Ashley Giovengo	05/28/25 09:44

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
BH07-0'	E505236-01A Soil	05/19/25	05/21/25	Glass Jar, 2 oz.
BH07-1'	E505236-02A Soil	05/19/25	05/21/25	Glass Jar, 2 oz.
BH07-2'	E505236-03A Soil	05/19/25	05/21/25	Glass Jar, 2 oz.



Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/28/2025 9:44:47AM

BH07-0' E505236-01

		E303230-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2521088
Benzene	ND	0.0250	1	05/21/25	05/23/25	
Ethylbenzene	ND	0.0250	1	05/21/25	05/23/25	
Toluene	ND	0.0250	1	05/21/25	05/23/25	
o-Xylene	ND	0.0250	1	05/21/25	05/23/25	
p,m-Xylene	ND	0.0500	1	05/21/25	05/23/25	
Total Xylenes	ND	0.0250	1	05/21/25	05/23/25	
Surrogate: 4-Bromochlorobenzene-PID		109 %	70-130	05/21/25	05/23/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2521088
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/21/25	05/23/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		101 %	70-130	05/21/25	05/23/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2521077
Diesel Range Organics (C10-C28)	ND	25.0	1	05/21/25	05/27/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/21/25	05/27/25	
Surrogate: n-Nonane		108 %	61-141	05/21/25	05/27/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2521119
Chloride	31000	1000	50	05/22/25	05/22/25	



Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/28/2025 9:44:47AM

BH07-1'

		E505236-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2521088
Benzene	ND	0.0250	1	05/21/25	05/23/25	
Ethylbenzene	ND	0.0250	1	05/21/25	05/23/25	
Toluene	ND	0.0250	1	05/21/25	05/23/25	
o-Xylene	ND	0.0250	1	05/21/25	05/23/25	
o,m-Xylene	ND	0.0500	1	05/21/25	05/23/25	
Total Xylenes	ND	0.0250	1	05/21/25	05/23/25	
Surrogate: 4-Bromochlorobenzene-PID		109 %	70-130	05/21/25	05/23/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2521088
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/21/25	05/23/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		101 %	70-130	05/21/25	05/23/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2521077
Diesel Range Organics (C10-C28)	ND	25.0	1	05/21/25	05/27/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/21/25	05/27/25	
Surrogate: n-Nonane		106 %	61-141	05/21/25	05/27/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: DT		Batch: 2521119
Chloride	1310	100	5	05/22/25	05/23/25	



Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/28/2025 9:44:47AM

BH07-2'

E505236-03

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2521088
Benzene	ND	0.0250	1	05/21/25	05/23/25	
Ethylbenzene	ND	0.0250	1	05/21/25	05/23/25	
Toluene	ND	0.0250	1	05/21/25	05/23/25	
o-Xylene	ND	0.0250	1	05/21/25	05/23/25	
p,m-Xylene	ND	0.0500	1	05/21/25	05/23/25	
Total Xylenes	ND	0.0250	1	05/21/25	05/23/25	
Surrogate: 4-Bromochlorobenzene-PID		108 %	70-130	05/21/25	05/23/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	Analyst: BA		Batch: 2521088
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/21/25	05/23/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		101 %	70-130	05/21/25	05/23/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2521077
Diesel Range Organics (C10-C28)	ND	25.0	1	05/21/25	05/27/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/21/25	05/27/25	
Surrogate: n-Nonane		111 %	61-141	05/21/25	05/27/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	lyst: DT		Batch: 2521119



QC Summary Data

Marbob State 001 SWD Matador Resources, LLC. Project Name: Reported: 5400 LBJ Freeway, Suite 1500 Project Number: 23003-0002 Dallas TX, 75240 Project Manager: Ashley Giovengo 5/28/2025 9:44:47AM **Volatile Organics by EPA 8021B** Analyst: BA RPD Reporting Spike Source Rec Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2521088-BLK1) Prepared: 05/21/25 Analyzed: 05/23/25 ND 0.0250 ND Ethylbenzene 0.0250 ND Toluene 0.0250 ND 0.0250 o-Xylene ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 8.35 8.00 104 70-130 LCS (2521088-BS1) Prepared: 05/21/25 Analyzed: 05/23/25 4.81 5.00 96.3 70-130 0.0250 Benzene Ethylbenzene 4.76 0.0250 5.00 95.2 70-130 96.2 70-130 Toluene 4.81 0.0250 5.00 4.68 93.7 70-130 o-Xylene 0.0250 5.00 9.59 0.0500 10.0 95.9 70-130 p,m-Xylene 14.3 95.2 70-130 0.0250 15.0 Total Xylenes 108 70-130 8.00 Surrogate: 4-Bromochlorobenzene-PID 8.65

Matrix Spike (2521088-MS1)				Source:	E505233-	06	Prepared: 05/21/25 Analyzed: 05/23/25
Benzene	5.32	0.0250	5.00	ND	106	70-130	
Ethylbenzene	5.23	0.0250	5.00	ND	105	70-130	
Toluene	5.30	0.0250	5.00	ND	106	70-130	
o-Xylene	5.16	0.0250	5.00	ND	103	70-130	
p,m-Xylene	10.5	0.0500	10.0	ND	105	70-130	
Total Xylenes	15.7	0.0250	15.0	ND	104	70-130	
Surrogate: 4-Bromochlorobenzene-PID	8.62		8.00		108	70-130	

Matrix Spike Dup (2521088-MSD1)				Source:	E505233-	06	Prepared: 0:	5/21/25 Analyzed: 05/23/25
Benzene	5.55	0.0250	5.00	ND	111	70-130	4.31	27
Ethylbenzene	5.47	0.0250	5.00	ND	109	70-130	4.41	26
Toluene	5.54	0.0250	5.00	ND	111	70-130	4.38	20
o-Xylene	5.40	0.0250	5.00	ND	108	70-130	4.43	25
p,m-Xylene	11.0	0.0500	10.0	ND	110	70-130	4.42	23
Total Xylenes	16.4	0.0250	15.0	ND	109	70-130	4.42	26
Surrogate: 4-Bromochlorobenzene-PID	8.62		8.00		108	70-130		

Gasoline Range Organics (C6-C10)

Surrogate: 1-Chloro-4-fluorobenzene-FID

QC Summary Data

Matador Resources, LLC.Project Name:Marbob State 001 SWDReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo5/28/20259:44:47AM

Dallas TX, 75240		Project Manage	r: As	shley Gioveng	go				5/28/2025 9:44:47AM
	Non		Analyst: BA						
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2521088-BLK1)							Prepared: 0	5/21/25 <i>E</i>	Analyzed: 05/23/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.02		8.00		100	70-130			
LCS (2521088-BS2)							Prepared: 0	5/21/25 A	Analyzed: 05/23/25
Gasoline Range Organics (C6-C10)	44.3	20.0	50.0		88.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.21		8.00		103	70-130			
Matrix Spike (2521088-MS2)				Source:	E505233-	06	Prepared: 0	5/21/25 A	Analyzed: 05/23/25
Gasoline Range Organics (C6-C10)	47.1	20.0	50.0	ND	94.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.20		8.00		103	70-130			
Matrix Spike Dup (2521088-MSD2)				Source:	E505233-	06	Prepared: 0	5/21/25 A	Analyzed: 05/23/25

50.0

8.00

ND

90.9

102

3.54

20

70-130

70-130

45.5

8.19

20.0

QC Summary Data

Matador Resources, LLC.Project Name:Marbob State 001 SWDReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo5/28/20259:44:47AM

Danas 1A, 73240		1 Toject Ivianage	. As	micy Gloveng	30				720/2023 9.11.17111
	Nonha	logenated Or	ganics by	EPA 8015I	O - DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2521077-BLK1)							Prepared: 0	5/21/25 An	alyzed: 05/27/25
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	55.2		50.0		110	61-141			
LCS (2521077-BS1)							Prepared: 0	5/21/25 An	alyzed: 05/27/25
Diesel Range Organics (C10-C28)	291	25.0	250		116	66-144			
urrogate: n-Nonane	51.3		50.0		103	61-141			
Matrix Spike (2521077-MS1)				Source:	E505238-0	02	Prepared: 0	5/21/25 An	alyzed: 05/27/25
Diesel Range Organics (C10-C28)	298	25.0	250	ND	119	56-156			
urrogate: n-Nonane	55.5		50.0		111	61-141			
Matrix Spike Dup (2521077-MSD1)				Source:	E505238-0	02	Prepared: 0	5/21/25 An	alyzed: 05/27/25
Diesel Range Organics (C10-C28)	308	25.0	250	ND	123	56-156	3.33	20	
hurrogate: n-Nonane	56.5		50.0		113	61-141			



Matrix Spike Dup (2521119-MSD1)

Chloride

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500	Project Name: Project Number:	Marbob State 001 SWD 23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/28/2025 9:44:47AM

		Anions	by EPA 3	00.0/9056	A				Analyst: DT
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2521119-BLK1)							Prepared: 0	5/22/25 An	alyzed: 05/22/25
Chloride	ND	20.0							
LCS (2521119-BS1)							Prepared: 0	5/22/25 An	alyzed: 05/22/25
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2521119-MS1)				Source:	E505227-	03	Prepared: 0	5/22/25 An	alyzed: 05/22/25
Chloride	258	20.0	250	ND	103	80-120			

250

20.0

Source: E505227-03

103

80-120

0.230

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.



Prepared: 05/22/25 Analyzed: 05/22/25

20

Definitions and Notes

Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	05/28/25 09:44

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

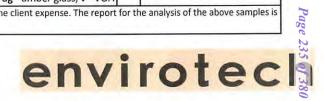
Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



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	Clie	nt Inform	nation			Invoice Information					La	b Us	e On	ly				TA	T	State
Client: N	1atador Prod		9.5.70.227		Co	mpany: Ensolum LLC		L	ab V	VO#		11/	Job	Numl	oer		1D	2D	3D Sto	NM CO UT TX
	Marbob State				A	ddress: 3122 National Parks H	lwy				30	0	230	1. Ea	W	12			X	X
	lanager: Asl					ty, State, Zip: Carlsbad NM, 8														
	3122 Nation					one: 575-988-0055			Г				Ana	lysis	and	Met	hod			EPA Program
	e, Zip: Carls				E	nail: agiovengo@ensolum.c	om													SDWA CWA RCRA
	75-988-005					cellaneous:														
	giovengo@e		om			150000000000000000000000000000000000000				15	15									Compliance Y or N
										y 80	/ 80	1	0	0.0	4	×	als			PWSID#
				Sam	ple Informati	on				30 b	30 b	, 802	8260	e 300	N.	05 - T	Met			
Time Sampled	Date Sampled	Matrix	No. of Containers			Sample ID	Field	Lab Numb	ber	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals			Remarks
11:00	5/19/2025	S	1			ВН07-0'		1							х					2.5
11:03	5/19/2025	S	1			BH07-1'		2							х					2.3
11:07	5/19/2025	S	1			BH07-2'		3							х					2.4
							-	3												
																	-	H		
							-						-		_					
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							1													
Addition	al Instructio	ns: Plea	se CC: cb	l urton@er	nsolum.com,	agiovengo@ensolum.com, ch	amilton	enso	olum.	.con	n, ies	trell	a@e	nsou	lm.c	om,	bsim	mons	@ensol	um.com,
igonzale	z@ensolum.	com. bm	oir@enso	lum.com.	oaderinto@	ensolum.com t tampering with or intentionally mislab	ling the sar	mple locat	tion, d	date o	r time	of coll	ection	is cons	idered	frauc	and m	nay be p	grounds for	legal action.
Sampled by																				
	ed by: (Signatur	re)	Date	20/23	7.11	Received by: (Signature)	Date 5	20.	2	Time	102	45								nust be received on ice the day they are wg temp above 0 but less than 6 °C on
Relinguish	ed by: (Signatur	e)	Date	,,,,	Time	Received by: (Signature)	Date			Time	. /		1		empre	nuant c	Take .		Lab	Jse Only
	Market Park	-	Date 5	10.25	1700	Received by: (Signature)		.20.7		Time	60	0			Rec	eive	d on i	ice:	9/1	N
Relinquish	ed by: (Signatur	e)	5	20.25	2230	Cally Play		21.2	5	8	00)			<u>T1</u>			_	<u>T2</u>	T3
Relinquish	ed by: (Signatur	e)	Date		Time	Received by: (Signature)	Date		- 1	Time							np °C			
Sample Ma	rix: S - Soil, Sd - S	iolid, Sg - Slu	dge, A - Aque	ous, O - Othe	er	1		ntainer							ag -	amb	er gla	SS, V -		
						arrangements are made. Hazardous ne liability of the laboratory is limited							osed	of at t	he cli	ent ex	pense	e. The	report for	the analysis of the above samples is





envirotech Inc.

Printed: 5/21/2025 9:36:22AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

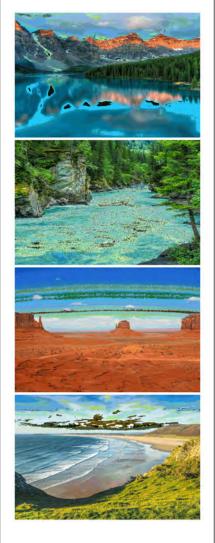
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

•	Client:	Matador Resources, LLC.	Date Received:	05/21/25	08:00	Work Order ID:	E505236
Email: a giovengosioneum.com. Due Danie: 0528/25 17:00 (6 day TAT) Li Does the sample ID match the COC? Yes	Phone:	(972) 371-5200	Date Logged In:	05/20/25	15:27	Logged In By:	Caitlin Mars
1. Does the sample ID match the COC? 2. Does the number of samples per sampling site location match the COC 3. Does the number of samples per sampling site location match the COC 4. Was the COC complete, i.e., signatures, datestimes, requested analyses? 4. Was the COC complete, i.e., signatures, datestimes, requested analyses? New a all samples received within holding time? New a slamples received within holding time? New a slamples received within holding time? New a slample to COC indicate standard TAT, or Expedited TAT? Sample Turn Around Time (TAT) 5. Danible Turn Around Time (TAT) 6. Danible COC indicate standard TAT, or Expedited TAT? Sample Cooler received? Yes 8. If yes, was cooler received? Yes 9. Was the sample (s) received intact, i.e., not broken? Yes 10. Were custody-security seals intate? Not 11. If yes, were custody-security seals intate? Note: Thermal preceived on ice? Note: Thermal preceived in a not required, if samples are received within 1 Similars of sampling 3. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments. Sample Container 14. Are aqueous VOC samples present? No 15. Are VOC samples collected in VOC analyses? No 16. Is the head space less than 6-8 mm (pen sized or less)? No 17. Was a trip blank (TB) included for VOC analyses? No 18. Are non-VOC samples collected in the correct containers? Yes Date Time Collected? Yes Sample ID Texeration 20. Does the sample have more than one phase, i.e., multiphase? No Multiphase Sample Martix 22. Are samples) leave ment han one phase, i.e., multiphase? No 23. Are samples have more than one phase, i.e., multiphase? No Subcontract Laboratory No Subcontract Laboratory specified by the client and if so who? No Subcontract Laboratory specified by the client and if so who? No Subcontract Laboratory specified by the client and if so who? No Subcontract Laboratory	Email:	agiovengo@ensolum.com		05/28/25	17:00 (4 day TAT)		
1. Does the sample ID match the COC? 2. Does the number of samples per sampling site location match the COC 3. Does the number of samples per sampling site location match the COC 4. Was the COC complete, i.e., signatures, datestimes, requested analyses? 4. Was the COC complete, i.e., signatures, datestimes, requested analyses? New a all samples received within holding time? New a slamples received within holding time? New a slamples received within holding time? New a slample to COC indicate standard TAT, or Expedited TAT? Sample Turn Around Time (TAT) 5. Danible Turn Around Time (TAT) 6. Danible COC indicate standard TAT, or Expedited TAT? Sample Cooler received? Yes 8. If yes, was cooler received? Yes 9. Was the sample (s) received intact, i.e., not broken? Yes 10. Were custody-security seals intate? Not 11. If yes, were custody-security seals intate? Note: Thermal preceived on ice? Note: Thermal preceived in a not required, if samples are received within 1 Similars of sampling 3. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments. Sample Container 14. Are aqueous VOC samples present? No 15. Are VOC samples collected in VOC analyses? No 16. Is the head space less than 6-8 mm (pen sized or less)? No 17. Was a trip blank (TB) included for VOC analyses? No 18. Are non-VOC samples collected in the correct containers? Yes Date Time Collected? Yes Sample ID Texeration 20. Does the sample have more than one phase, i.e., multiphase? No Multiphase Sample Martix 22. Are samples) leave ment han one phase, i.e., multiphase? No 23. Are samples have more than one phase, i.e., multiphase? No Subcontract Laboratory No Subcontract Laboratory specified by the client and if so who? No Subcontract Laboratory specified by the client and if so who? No Subcontract Laboratory specified by the client and if so who? No Subcontract Laboratory							
2. Does the number of samples per sampling site location match the COC 3. Were samples dropped off by client or carrier? 4. Was the COC complete, i.e., signatures, datestimes, requested analyses? 5. Were all samples received within holding time? 5. Were all samples received within holding time? 5. Were all samples received within holding time? 5. Sample Turn Around Time (TAT) 6. Did the COC indicate standard TAT, or Expedited TAT? 7. Was a sample cooler received? 8. If yes, was cooler received in good condition? 9. Wes the sample's precised intext, i.e., not broken? 9. Was the sample's received intext, i.e., not broken? 12. Was the sample received on ice? 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments. 15. Initiates of sampling 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments. 15. Are VOC samples collected in VOA Vials? 15. Are VOC samples collected in VOA Vials? 16. Is the head space less than 6-8 mm (pen sized or less)? 17. Was a trip blank (TB) included for VOC analyses? 19. Is the appropriate volume/weight or number of sample containers collected? 19. Ower field sample labels filled out with the minimum information: 15. Sample Contractive of the COC or field labels indicate the samples were preserved? 21. Does the COC or field labels indicate the samples were preserved? 22. Are sample(s) correctly preserved? 23. Are samples have more than one phase, i.e., multiphase? 24. Is lab fillitation required and/or requested for dissolved metals? 25. Does the sample have more than one phase, i.e., multiphase? 26. Does the sample have more than one phase, i.e., multiphase? 27. If yes, does the COC specify which phase(s) is to be analyzed? 28. Are samples experience of the correct containers of the correct containers of the correct corrective preserved? 28. Are samples experience of the correct containers of the corrective pr	Chain of	Custody (COC)					
3. Were samples dropped off by client or carrier? 4. Was the COC complete, i.e., signatures, dates/mines, requested analyses? 5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold line; are not included in this discussion. Sample Turn Around Time (TAT) 6. Did the COC indicates standard TAT), or Expedited TAT? Yes Sample Conter 7. 8. Kryes, was cooler received? 8. Kryes, was cooler received? 9. Was the sample (s) received intact, i.e., not broken? 9. Was the sample (s) received intact, i.e., not broken? 10. Were custody/security seals intact? 11. If yes, were custody/security seals intact? 12. Was the sample received on ice? 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments. Sample Container 14. Are aqueous VOC samples collected in VOA Visls? 15. Are VOC samples collected in VOA Visls? 16. Is the head space less than 6-8 mm (pen sized or less)? 17. Was a trip blank (TB) included for VOC analyses? 18. Are non-VOC samples collected in the correct containers? 19. Is the papropriate volume/weight or number of sample containers collected? 20. Were field sample labels filled out with the minimum informatior: Sample IP Time Collected? 21. Line Should for the correct containers? 32. Are samples (or credit or quite and since or preserved? 33. An Are non-VOC samples collected in the correct containers? 34. Sample IP Time Collected? 35. Are VOC Seepels or collected in the correct containers? 36. Sample IP Time Collected? 36. Sample IP Time Collected? 37. Line Should for containers collected? 38. Sample IP Time Collected? 39. Sample IP T				Yes			
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? 5. Were all samples received within holding time? Note analysis, such as pff witch should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion. Sample Term Arroand Time (TXI) 5. Did the COC indicate standard TAT, or Expedited TAT? 7. Was a Sample cooler received? 8. If yes, was cooler received? 9. Was the sample you control of the COC indicates standard TAT, or Expedited TAT? 9. Was a sample cooler received in good condition? 9. Was the sample you cert of minute, i.e., not broken? 10. Were custody/security seals present? 11. If yes, were custody/security seals intact? 12. Was the sample preceived on ize? 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments. Sample Container 14. Are aqueous VOC samples present? 15. Are VOC samples collected in VOA Vials? 16. Is the head space less than 6-8 mm (pea sized or less)? 17. Was a trip bank (TB) included for VOC analyses? 18. Are non-VOC samples collected in the correct containers? 19. Is the appropriate volume/weight or number of sample containers? 19. Is the appropriate volume/weight or number of sample containers? 10. Were field sample labels filled out with the minimum information: Sample ID? Date/Time Collected? Collectors name? 10. Does the COC or field labels indicate the samples were preserved? No. Multiphase Sample Marrix 21. Does the COC or field sholes indicate the samples were preserved? No. Multiphase Sample Marrix 22. Are samples, convertly preserved? No. Multiphase Sample Marrix 23. Are samples content than one phase, i.e., multiphase? 24. Is lab filtention required and/or requested for dissolved metals? 25. Cools core sample have more than one phase, i.e., multiphase? 27. If yes, does the COC specify which phase(s) is to be analyzed? 28. Are samples required to get sent to a subcontract laboratory? 29. Was a subcontract Laboratory 20. Was a subcontract Laborat	2. Does t	he number of samples per sampling site location ma	atch the COC	Yes			
5. Were all samples received within holding time? Note Analysis, sales a pit which should be conducted in the field, i.e., 15 minute hold time, are not included in this dissussion. Samule Turn Around Time (TAT) 6. Did the COol indicate standard TAT, or Expedited TAT? Yes Sample Cooler 7. Was a sample cooler received? 8. If yes, was cooler received in good condition? 9. Was the sample (s) received intext, i.e., not broken? 10. Were custody/security seals intact? 11. If yes, were custody/security seals intact? 12. Was the sample received on ite? Note: Themaal preservation is not required, if samples are received within 15 minutes of sampling 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments. Sample Container 14. Are aqueous VOC samples present? 15. Are VOC samples collected in VOA Vials? 16. Is the head space less than 6-8 mm (pea sized or less)? 17. Was a trip blank (TB) included for VOC analyses? 18. Are non-VOC samples collected in the correct containers? 19. Is the proportiate volume/weight or number of sample containers collected? 19. Date/Time Collected? 10. Sample Date/Time Collected? 10. Date/Time C	3. Were s	amples dropped off by client or carrier?		Yes	Carrier: Courier		
Note: Analysis, such as plit which should be conducted in the field, is, 15 minute hold time, are not included in this discussion. Sample Coroler 7. Was a sample cooler received? 8. If yes, was cooler received in good condition? 9. Was the sample (so) received intact, i.e., not broken? 10. Were custody/security seals present? 10. Were custody/security seals present? 10. Were custody/security seals intact? 10. Were custody/security seals present? 11. If yes, were custody/security seals intact? 12. Was the sample received on ice? 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments. Sample Container 14. Are aqueous VOC samples present? 15. Are VOC samples collected in VOA Vials? 16. Is the head space less than 6-8 mm (pea sized or less)? 17. Was a trip blank (TB) included for VOC analyses? 18. Are non-VOC samples collected in the orrect containers? 19. Is the appropriate volume/weight or number of sample containers collected? 19. Is the appropriate volume/weight or number of sample containers collected? 19. See Field Label 20. Were field sample labels filled out with the minimum information: Sample ID? Sample ID? Sample OC of field labels indicate the samples were preserved? 10. Lace in the sample have more than one phase, i.e., multiphase? 10. Lace in which have been then one phase, i.e., multiphase? 10. Lace in the sample have more than one phase, i.e., multiphase? 10. Lace is sample have more than one phase, i.e., multiphase? 10. Lace is sample have more than one phase, i.e., multiphase? 10. Lace is sample have more than one phase, i.e., multiphase? 10. Subcontract Laboratory. 10. Was a subcontract Laboratory specified by the client and if so who? 10. Was a subcontract Laboratory specified by the client and if so who? 10. Was a subcontract Laboratory specified by the client and if so who? 10. Were the sample have more than one phase, i.e., multiphase? 10. Was a subcontract Laboratory specified by the client and if so who? 10. Was	4. Was th	e COC complete, i.e., signatures, dates/times, reque	ested analyses?	Yes			
i.e., 15 minute hold time, are not included in this dissession. 8. Sample Cooler 8. Sample Cooler 8. If yes, was cooler received? 9. Was the sample(s) received in good condition? 10. Were custody/security seals intact? 11. If yes, were custody/security seals intact? 12. Was be sample exceived on sice? 13. See COC for individual sample temps. Samples are received within 15 minutes of sampling in the sample sample souler for experted in some near the sample sample sample sample samples of sampling in the sample sample samples are received within 15 minutes of sampling in the sample temps. Samples outside of 0°C-6°C will be recorded in comments. 8. Semple Container 14. Are aqueous VOC samples present? 15. Are VOC samples collected in VOA Vials? 16. Is the head space less than 6-8 mm (pea sized or less)? 17. Was a trip blank (TB) included for VOC analyses? 19. Is the appropriate volume/weight or number of sample containers collected? 19. Is the appropriate volume/weight or number of sample containers collected? 19. Sample ID? 10. See COC of rield labels filled out with the minimum information: 8. Sample ID? 10. Collectors name? 10. See Sample Preservation 21. Ones the COC of rield labels indicate the samples were preserved? 10. No. 1	5. Were a		: al 6 -14	Yes			
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Date

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

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Marbob State 001 SWD

Work Order: E505246

Job Number: 23003-0002

Received: 5/22/2025

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 5/29/25

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: 5/29/25

Ashley Giovengo 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240

Project Name: Marbob State 001 SWD

Workorder: E505246

Date Received: 5/22/2025 6:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/22/2025 6:45:00AM, under the Project Name: Marbob State 001 SWD.

The analytical test results summarized in this report with the Project Name: Marbob State 001 SWD 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 reguarding 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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BH10B-4'	14
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BH10B-6'	16
BH10C-4'	17
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QC - Nonhalogenated Organics by EPA 8015D - GRO	21
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Sample Summary

Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	Donoutoda
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	05/29/25 08:49

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
BH08-4'	E505246-01A Soil	05/20/25	05/22/25	Glass Jar, 2 oz.
BH08-5'	E505246-02A Soil	05/20/25	05/22/25	Glass Jar, 2 oz.
BH08-6'	E505246-03A Soil	05/20/25	05/22/25	Glass Jar, 2 oz.
BH09-4'	E505246-04A Soil	05/20/25	05/22/25	Glass Jar, 2 oz.
BH09-5'	E505246-05A Soil	05/20/25	05/22/25	Glass Jar, 2 oz.
BH10A-4'	E505246-06A Soil	05/20/25	05/22/25	Glass Jar, 2 oz.
BH10A-5'	E505246-07A Soil	05/20/25	05/22/25	Glass Jar, 2 oz.
BH10A-6'	E505246-08A Soil	05/20/25	05/22/25	Glass Jar, 2 oz.
BH10B-4'	E505246-09A Soil	05/20/25	05/22/25	Glass Jar, 2 oz.
BH10B-5'	E505246-10A Soil	05/20/25	05/22/25	Glass Jar, 2 oz.
BH10B-6'	E505246-11A Soil	05/20/25	05/22/25	Glass Jar, 2 oz.
BH10C-4'	E505246-12A Soil	05/20/25	05/22/25	Glass Jar, 2 oz.
BH10C-5'	E505246-13A Soil	05/20/25	05/22/25	Glass Jar, 2 oz.
BH10-6'	E505246-14A Soil	05/20/25	05/22/25	Glass Jar, 2 oz.

Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/29/2025 8:49:04AM

BH08-4' E505246-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	lyst: SL		Batch: 2521112
Benzene	ND	0.0250	1	05/22/25	05/24/25	
Ethylbenzene	ND	0.0250	1	05/22/25	05/24/25	
Toluene	ND	0.0250	1	05/22/25	05/24/25	
o-Xylene	ND	0.0250	1	05/22/25	05/24/25	
p,m-Xylene	ND	0.0500	1	05/22/25	05/24/25	
Total Xylenes	ND	0.0250	1	05/22/25	05/24/25	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	05/22/25	05/24/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	lyst: SL		Batch: 2521112
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/22/25	05/24/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		111 %	70-130	05/22/25	05/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	lyst: NV		Batch: 2521132
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/25	05/24/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/25	05/24/25	
Surrogate: n-Nonane		113 %	61-141	05/23/25	05/24/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	lyst: DT		Batch: 2521136
Chloride	968	20.0	1	05/23/25	05/23/25	

Sample Data

Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/29/2025 8:49:04AM

BH08-5'

		E505246-02				
		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: SL		Batch: 2521112
Benzene	ND	0.0250	1	05/22/25	05/24/25	
Ethylbenzene	ND	0.0250	1	05/22/25	05/24/25	
Toluene	ND	0.0250	1	05/22/25	05/24/25	
o-Xylene	ND	0.0250	1	05/22/25	05/24/25	
p,m-Xylene	ND	0.0500	1	05/22/25	05/24/25	
Total Xylenes	ND	0.0250	1	05/22/25	05/24/25	
Surrogate: 4-Bromochlorobenzene-PID		99.1 %	70-130	05/22/25	05/24/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: SL		Batch: 2521112
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/22/25	05/24/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		113 %	70-130	05/22/25	05/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: NV		Batch: 2521132
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/25	05/24/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/25	05/24/25	
Surrogate: n-Nonane		116 %	61-141	05/23/25	05/24/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: DT		Batch: 2521136
Chloride	590	20.0	1	05/23/25	05/23/25	



Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/29/2025 8:49:04AM

BH08-6'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	llyst: SL		Batch: 2521112
Benzene	ND	0.0250	1	05/22/25	05/24/25	
Ethylbenzene	ND	0.0250	1	05/22/25	05/24/25	
Toluene	ND	0.0250	1	05/22/25	05/24/25	
o-Xylene	ND	0.0250	1	05/22/25	05/24/25	
p,m-Xylene	ND	0.0500	1	05/22/25	05/24/25	
Total Xylenes	ND	0.0250	1	05/22/25	05/24/25	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	05/22/25	05/24/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	llyst: SL		Batch: 2521112
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/22/25	05/24/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		110 %	70-130	05/22/25	05/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2521132
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/25	05/24/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/25	05/24/25	
Surrogate: n-Nonane		116 %	61-141	05/23/25	05/24/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	llyst: DT		Batch: 2521136
Chloride	382	20.0	1	05/23/25	05/23/25	



Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/29/2025 8:49:04AM

BH09-4'

E50	 4	A 4

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	lyst: SL		Batch: 2521112
Benzene	ND	0.0250	1	05/22/25	05/24/25	
Ethylbenzene	ND	0.0250	1	05/22/25	05/24/25	
Toluene	ND	0.0250	1	05/22/25	05/24/25	
o-Xylene	ND	0.0250	1	05/22/25	05/24/25	
p,m-Xylene	ND	0.0500	1	05/22/25	05/24/25	
Total Xylenes	ND	0.0250	1	05/22/25	05/24/25	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	05/22/25	05/24/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	lyst: SL		Batch: 2521112
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/22/25	05/24/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		109 %	70-130	05/22/25	05/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	lyst: NV		Batch: 2521132
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/25	05/24/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/25	05/24/25	
Surrogate: n-Nonane		114 %	61-141	05/23/25	05/24/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	lyst: DT		Batch: 2521136



Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/29/2025 8:49:04AM

BH09-5' E505246-05

	2002.0 00				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analy	yst: SL		Batch: 2521112
ND	0.0250	1	05/22/25	05/24/25	
ND	0.0250	1	05/22/25	05/24/25	
ND	0.0250	1	05/22/25	05/24/25	
ND	0.0250	1	05/22/25	05/24/25	
ND	0.0500	1	05/22/25	05/24/25	
ND	0.0250	1	05/22/25	05/24/25	
	97.8 %	70-130	05/22/25	05/24/25	
mg/kg	mg/kg	Analy	yst: SL		Batch: 2521112
ND	20.0	1	05/22/25	05/24/25	
	109 %	70-130	05/22/25	05/24/25	
mg/kg	mg/kg	Analy	yst: NV		Batch: 2521132
ND	25.0	1	05/23/25	05/24/25	
ND	50.0	1	05/23/25	05/24/25	
	118 %	61-141	05/23/25	05/24/25	
mg/kg	mg/kg	Analy	yst: DT		Batch: 2521136
	2 2				
	mg/kg ND	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 ND 0.0250 ND 0.0250 97.8 % mg/kg MD 20.0 109 % mg/kg ND 25.0 ND 50.0 118 %	mg/kg mg/kg Analy ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 97.8 % 70-130 mg/kg mg/kg Analy ND 20.0 1 109 % 70-130 1 mg/kg mg/kg Analy ND 25.0 1 ND 50.0 1 118 % 61-141	Result Limit Dilution Prepared mg/kg mg/kg Analyst: SL ND 0.0250 1 05/22/25 ND 0.0250 1 05/22/25 ND 0.0250 1 05/22/25 ND 0.0250 1 05/22/25 ND 0.0500 1 05/22/25 ND 0.0250 1 05/22/25 mg/kg mg/kg Analyst: SL ND 20.0 1 05/22/25 mg/kg mg/kg Analyst: NV ND 25.0 1 05/23/25 ND 50.0 1 05/23/25 ND 50.0 1 05/23/25	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: SL ND 0.0250 1 05/22/25 05/24/25 ND 0.0500 1 05/22/25 05/24/25 ND 0.0250 1 05/22/25 05/24/25 MD 0.0250 1 05/22/25 05/24/25 mg/kg mg/kg Analyst: SL ND 20.0 1 05/22/25 05/24/25 mg/kg mg/kg Analyst: NV ND 25.0 1 05/23/25 05/24/25 ND 25.0 1 05/23/25 05/24/25 ND 50.0 1 05/23/25 05/24/25 ND 50.0 1 05/23/25 05/24/25



Sample Data

Matador Resources, LLC. Project Name: Marbob State 001 SWD 5400 LBJ Freeway, Suite 1500 Project Number: 23003-0002 Reported: 5/29/2025 8:49:04AM Dallas TX, 75240 Project Manager: Ashley Giovengo

BH10A-4'

E505246-06								
Reporting								
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes		
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	rst: SL		Batch: 2521112		
Benzene	ND	0.0250	1	05/22/25	05/24/25			
Ethylbenzene	ND	0.0250	1	05/22/25	05/24/25			
Toluene	ND	0.0250	1	05/22/25	05/24/25			
o-Xylene	ND	0.0250	1	05/22/25	05/24/25			
p,m-Xylene	ND	0.0500	1	05/22/25	05/24/25			
Total Xylenes	ND	0.0250	1	05/22/25	05/24/25			
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	05/22/25	05/24/25			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	rst: SL		Batch: 2521112		
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/22/25	05/24/25			
Surrogate: 1-Chloro-4-fluorobenzene-FID		108 %	70-130	05/22/25	05/24/25			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2521132		
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/25	05/24/25			
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/25	05/24/25			
Surrogate: n-Nonane		116 %	61-141	05/23/25	05/24/25			
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	rst: DT		Batch: 2521136		
Chloride	ND	20.0	1	05/23/25	05/23/25			



Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/29/2025 8:49:04AM

BH10A-5' E505246-07

	1203240 07				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Anal	yst: SL		Batch: 2521112
ND	0.0250	1	05/22/25	05/24/25	
ND	0.0250	1	05/22/25	05/24/25	
ND	0.0250	1	05/22/25	05/24/25	
ND	0.0250	1	05/22/25	05/24/25	
ND	0.0500	1	05/22/25	05/24/25	
ND	0.0250	1	05/22/25	05/24/25	
	101 %	70-130	05/22/25	05/24/25	
mg/kg	mg/kg	Anal	yst: SL		Batch: 2521112
ND	20.0	1	05/22/25	05/24/25	
	113 %	70-130	05/22/25	05/24/25	
mg/kg	mg/kg	Anal	yst: NV		Batch: 2521132
ND	25.0	1	05/23/25	05/24/25	
ND	50.0	1	05/23/25	05/24/25	
	116 %	61-141	05/23/25	05/24/25	
mg/kg	mg/kg	Anal	yst: DT		Batch: 2521136
ND	20.0	1	05/23/25	05/23/25	
	mg/kg ND ND ND ND ND ND ND ND ND Mg/kg ND mg/kg	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 IOI % mg/kg MD 20.0 II3 % mg/kg ND 25.0 ND 50.0 II6 % mg/kg mg/kg mg/kg	mg/kg mg/kg Anal ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 MD 0.0250 1 MD 70-130 1 mg/kg mg/kg Anal ND 20.0 1 Mg/kg mg/kg Anal ND 25.0 1 ND 50.0 1 I16 % 61-141 mg/kg mg/kg Anal	Result Limit Dilution Prepared mg/kg mg/kg Analyst: SL ND 0.0250 1 05/22/25 ND 0.0250 1 05/22/25 ND 0.0250 1 05/22/25 ND 0.0250 1 05/22/25 ND 0.0500 1 05/22/25 ND 0.0250 1 05/22/25 mg/kg mg/kg Analyst: SL ND 20.0 1 05/22/25 mg/kg mg/kg Analyst: NV ND 25.0 1 05/23/25 ND 25.0 1 05/23/25 ND 50.0 1 05/23/25 ND 50.0 1 05/23/25 Mg/kg Mg/kg Analyst: DT	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: SL ND 0.0250 1 05/22/25 05/24/25 ND 0.0500 1 05/22/25 05/24/25 ND 0.0250 1 05/22/25 05/24/25 MD 0.0250 1 05/22/25 05/24/25 mg/kg mg/kg Analyst: SL mg/kg mg/kg Analyst: SL ND 20.0 1 05/22/25 05/24/25 mg/kg mg/kg Analyst: NV ND 25.0 1 05/23/25 05/24/25 ND 25.0 1 05/23/25 05/24/25 ND 50.0 1 05/23/25 05/24/25 ND 50.0



Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/29/2025 8:49:04AM

BH10A-6' E505246-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	Analyst: SL			Batch: 2521112
Benzene	ND	0.0250	1	05/22/25	05/24/25	
Ethylbenzene	ND	0.0250	1	05/22/25	05/24/25	
Toluene	ND	0.0250	1	05/22/25	05/24/25	
o-Xylene	ND	0.0250	1	05/22/25	05/24/25	
p,m-Xylene	ND	0.0500	1	05/22/25	05/24/25	
Total Xylenes	ND	0.0250	1	05/22/25	05/24/25	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	05/22/25	05/24/25	
Nonhalogenated Organics by EPA 8015D - GRO	O mg/kg		/kg Analyst: SL			Batch: 2521112
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/22/25	05/24/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		111 %	70-130	05/22/25	05/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2521132
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/25	05/24/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/25	05/24/25	
Surrogate: n-Nonane		112 %	61-141	05/23/25	05/24/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2521136
Chloride	ND	20.0	1	05/23/25	05/23/25	



Matador Resources, LLC.Project Name:Marbob State 001 SWD5400 LBJ Freeway, Suite 1500Project Number:23003-0002Reported:Dallas TX, 75240Project Manager:Ashley Giovengo5/29/2025 8:49:04AM

BH10B-4' E505246-09

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: SL		Batch: 2521112
Benzene	ND	0.0250	1	05/22/25	05/24/25	
Ethylbenzene	ND	0.0250	1	05/22/25	05/24/25	
Toluene	ND	0.0250	1	05/22/25	05/24/25	
o-Xylene	ND	0.0250	1	05/22/25	05/24/25	
p,m-Xylene	ND	0.0500	1	05/22/25	05/24/25	
Total Xylenes	ND	0.0250	1	05/22/25	05/24/25	
Surrogate: 4-Bromochlorobenzene-PID		99.4 %	70-130	05/22/25	05/24/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg Analyst: SL			Batch: 2521112	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/22/25	05/24/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		110 %	70-130	05/22/25	05/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	ng/kg Analyst: NV			Batch: 2521132
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/25	05/24/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/25	05/24/25	
Surrogate: n-Nonane		114 %	61-141	05/23/25	05/24/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: DT		Batch: 2521136
Chloride	89.4	20.0	1	05/23/25	05/23/25	



Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/29/2025 8:49:04AM

BH10B-5' E505246-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	Analyst: SL			Batch: 2521112
Benzene	ND	0.0250	1	05/22/25	05/24/25	
Ethylbenzene	ND	0.0250	1	05/22/25	05/24/25	
Toluene	ND	0.0250	1	05/22/25	05/24/25	
o-Xylene	ND	0.0250	1	05/22/25	05/24/25	
p,m-Xylene	ND	0.0500	1	05/22/25	05/24/25	
Total Xylenes	ND	0.0250	1	05/22/25	05/24/25	
Surrogate: 4-Bromochlorobenzene-PID		98.1 %	70-130	05/22/25	05/24/25	
Nonhalogenated Organics by EPA 8015D - GRO	RO mg/kg		g Analyst: SL			Batch: 2521112
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/22/25	05/24/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		110 %	70-130	05/22/25	05/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2521132
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/25	05/24/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/25	05/24/25	
Surrogate: n-Nonane		114 %	61-141	05/23/25	05/24/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2521136
Chloride	72.1	20.0	1	05/23/25	05/23/25	



Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/29/2025 8:49:04AM

BH10B-6' E505246-11

	20021011					
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	Analyst: SL			Batch: 2521112
Benzene	ND	0.0250	1	05/22/25	05/24/25	
Ethylbenzene	ND	0.0250	1	05/22/25	05/24/25	
Toluene	ND	0.0250	1	05/22/25	05/24/25	
o-Xylene	ND	0.0250	1	05/22/25	05/24/25	
p,m-Xylene	ND	0.0500	1	05/22/25	05/24/25	
Total Xylenes	ND	0.0250	1	05/22/25	05/24/25	
Surrogate: 4-Bromochlorobenzene-PID		91.2 %	70-130	05/22/25	05/24/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg		g/kg Analyst: SL			Batch: 2521112
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/22/25	05/24/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		112 %	70-130	05/22/25	05/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg mg/kg		Analyst: NV		Batch: 2521132
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/25	05/24/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/25	05/24/25	
Surrogate: n-Nonane		117 %	61-141	05/23/25	05/24/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2521136
Chloride	45.3	20.0	1	05/23/25	05/23/25	



Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/29/2025 8:49:04AM

BH10C-4' E505246-12

		L303240 12				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: SL		Batch: 2521112
Benzene	ND	0.0250	1	05/22/25	05/24/25	
Ethylbenzene	ND	0.0250	1	05/22/25	05/24/25	
Toluene	ND	0.0250	1	05/22/25	05/24/25	
-Xylene	ND	0.0250	1	05/22/25	05/24/25	
o,m-Xylene	ND	0.0500	1	05/22/25	05/24/25	
Total Xylenes	ND	0.0250	1	05/22/25	05/24/25	
Surrogate: 4-Bromochlorobenzene-PID		105 %	70-130	05/22/25	05/24/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2521112
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/22/25	05/24/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		112 %	70-130	05/22/25	05/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2521132
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/25	05/24/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/25	05/24/25	
Surrogate: n-Nonane		115 %	61-141	05/23/25	05/24/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2521136
Chloride	71.9	20.0	1	05/23/25	05/24/25	



Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/29/2025 8:49:04AM

BH10C-5'

		E505246-13				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: SL		Batch: 2521112
Benzene	ND	0.0250	1	05/22/25	05/24/25	
Ethylbenzene	ND	0.0250	1	05/22/25	05/24/25	
Toluene	ND	0.0250	1	05/22/25	05/24/25	
o-Xylene	ND	0.0250	1	05/22/25	05/24/25	
o,m-Xylene	ND	0.0500	1	05/22/25	05/24/25	
Total Xylenes	ND	0.0250	1	05/22/25	05/24/25	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	05/22/25	05/24/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: SL		Batch: 2521112
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/22/25	05/24/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		111 %	70-130	05/22/25	05/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: NV		Batch: 2521132
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/25	05/24/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/25	05/24/25	
Surrogate: n-Nonane		117 %	61-141	05/23/25	05/24/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: DT		Batch: 2521136
Chloride	82.8	20.0	1	05/23/25	05/24/25	



Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/29/2025 8:49:04AM

BH10-6'

		E505246-14							
Reporting									
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes			
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: SL		Batch: 2521112			
Benzene	ND	0.0250	1	05/22/25	05/24/25				
Ethylbenzene	ND	0.0250	1	05/22/25	05/24/25				
Toluene	ND	0.0250	1	05/22/25	05/24/25				
o-Xylene	ND	0.0250	1	05/22/25	05/24/25				
p,m-Xylene	ND	0.0500	1	05/22/25	05/24/25				
Total Xylenes	ND	0.0250	1	05/22/25	05/24/25				
Surrogate: 4-Bromochlorobenzene-PID		98.9 %	70-130	05/22/25	05/24/25				
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: SL		Batch: 2521112			
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/22/25	05/24/25				
Surrogate: 1-Chloro-4-fluorobenzene-FID		113 %	70-130	05/22/25	05/24/25				
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2521132			
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/25	05/24/25				
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/25	05/24/25				
Surrogate: n-Nonane		118 %	61-141	05/23/25	05/24/25				
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: DT		Batch: 2521136			
Chloride	70.2	20.0	1	05/23/25	05/24/25	·			



o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

QC Summary Data

Marbob State 001 SWD Matador Resources, LLC. Project Name: Reported: 5400 LBJ Freeway, Suite 1500 Project Number: 23003-0002 Dallas TX, 75240 Project Manager: Ashley Giovengo 5/29/2025 8:49:04AM **Volatile Organics by EPA 8021B** Analyst: SL Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2521112-BLK1) Prepared: 05/22/25 Analyzed: 05/24/25 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND 0.0250 o-Xylene ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.94 8.00 99.3 70-130 LCS (2521112-BS1) Prepared: 05/22/25 Analyzed: 05/24/25 4.77 5.00 95.5 70-130 Benzene 0.0250 Ethylbenzene 4.93 0.0250 5.00 98.6 70-130 70-130 4.88 0.0250 5.00 97.6 Toluene 4.92 70-130 o-Xylene 0.0250 5.00 98.4 10.0 10.0 70-130 0.0500 p.m-Xvlene 99.5 70-130 14.9 0.0250 15.0 Total Xylenes 8.00 99.3 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.94 Source: E505246-06 Matrix Spike (2521112-MS1) Prepared: 05/22/25 Analyzed: 05/27/25 Benzene 4.84 0.0250 5.00 ND 96.8 70-130 ND 70-130 Ethylbenzene 4.82 0.0250 5.00 96.3 Toluene 4.83 0.0250 5.00 ND 96.7 70-130

Matrix Spike Dup (2521112-MSD1)				Source:	E505246-	06	Prepared: 05	5/22/25 Analyzed: 05/24/25
Benzene	4.78	0.0250	5.00	ND	95.6	70-130	1.24	27
Ethylbenzene	4.89	0.0250	5.00	ND	97.7	70-130	1.44	26
Toluene	4.86	0.0250	5.00	ND	97.3	70-130	0.618	20
o-Xylene	4.90	0.0250	5.00	ND	97.9	70-130	2.51	25
p,m-Xylene	9.88	0.0500	10.0	ND	98.8	70-130	0.992	23
Total Xylenes	14.8	0.0250	15.0	ND	98.5	70-130	1.49	26
Surrogate: 4-Bromochlorobenzene-PID	7.49		8.00		93.7	70-130		

5.00

10.0

15.0

8.00

0.0250

0.0500

0.0250

ND

ND

ND

95.5

97.9

70-130

70-130

70-130

70-130

4.77

9.79

7.59



Surrogate: 1-Chloro-4-fluorobenzene-FID

QC Summary Data

Matador Resources, LLC.Project Name:Marbob State 001 SWDReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo5/29/20258:49:04AM

Dallas TX, 75240		Project Manage	r: As	shley Gioveng	go			5/2	9/2025 8:49:04AM
	Nor	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
Blank (2521112-BLK1)							Prepared: 0	5/22/25 Anal	yzed: 05/24/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.98		8.00		112	70-130			
LCS (2521112-BS2)							Prepared: 0	5/22/25 Anal	yzed: 05/27/25
Gasoline Range Organics (C6-C10)	49.2	20.0	50.0		98.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	9.49		8.00		119	70-130			
Matrix Spike (2521112-MS2)				Source:	E505246-	06	Prepared: 0	5/22/25 Anal	yzed: 05/24/25
Gasoline Range Organics (C6-C10)	52.6	20.0	50.0	ND	105	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.92		8.00		111	70-130			
Matrix Spike Dup (2521112-MSD2)				Source:	E505246-	06	Prepared: 0	5/22/25 Anal	yzed: 05/27/25
Gasoline Range Organics (C6-C10)	55.7	20.0	50.0	ND	111	70-130	5.82	20	

8.00

9.22

115

70-130

QC Summary Data

Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/29/2025 8:49:04AM

Dallas 1X, /5240		Project Manage	r: As	niey Gioveng	go				0/29/2025 8:49:04AN
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2521132-BLK1)							Prepared: 0	5/23/25 An	alyzed: 05/24/25
tiesel Range Organics (C10-C28)	ND	25.0							
vil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	55.6		50.0		111	61-141			
LCS (2521132-BS1)							Prepared: 0	5/23/25 An	alyzed: 05/24/25
riesel Range Organics (C10-C28)	314	25.0	250		126	66-144			
urrogate: n-Nonane	57.0		50.0		114	61-141			
Matrix Spike (2521132-MS1)				Source:	E505246-0	01	Prepared: 0	5/23/25 An	alyzed: 05/24/25
riesel Range Organics (C10-C28)	308	25.0	250	ND	123	56-156			
urrogate: n-Nonane	57.6		50.0		115	61-141			
Matrix Spike Dup (2521132-MSD1)				Source:	E505246-0	01	Prepared: 0	5/23/25 An	alyzed: 05/24/25
tiesel Range Organics (C10-C28)	322	25.0	250	ND	129	56-156	4.41	20	
urrogate: n-Nonane	61.0		50.0		122	61-141			



Chloride

Chloride

Chloride

Matrix Spike (2521136-MS1)

Matrix Spike Dup (2521136-MSD1)

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number Project Manage	: 2	Marbob State 0 3003-0002 Ashley Gioven					Reported: 5/29/2025 8:49:04AM
		Anions	by EPA	300.0/9056	A				Analyst: DT
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes
Blank (2521136-BLK1)]	Prepared: 0	5/23/25 A	Analyzed: 05/23/25
Chloride	ND	20.0							
LCS (2521136-BS1)							Prepared: 0	5/23/25 A	Analyzed: 05/23/25

250

250

250

20.0

20.0

20.0

256

477

464

90-110

80-120

80-120

2.62

Prepared: 05/23/25 Analyzed: 05/23/25

Prepared: 05/23/25 Analyzed: 05/23/25

20

102

106

101

Source: E505246-05

Source: E505246-05

212

212

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

Γ	Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
l	5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
l	Dallas TX, 75240	Project Manager:	Ashley Giovengo	05/29/25 08:49

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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

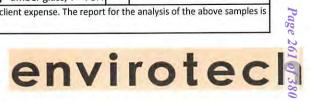


Released to Imaging: 11/5/2025 11:02:30 AM

Page _	_ of _2

	Clie	nt Inform	nation			Invoice Information	1				La	b Us	e On	ly				TA	T		State	e
Client: N	Matador Prod	luction Co	ompany		Cor	mpany: Ensolum LLC		L	ab V	VO#			Job I	Num	ber		1D	2D	3D Sto	MM I	CO UT	TX
Project:	Marbob State	#001 SV	VD		Ad	dress: 3122 National Parks I	Hwy		E5(70%	240	0	23	to?	o.a	52			X	X		
Project N	Manager: Asl	nley Giov	engo		City	y, State, Zip: Carlsbad NM, 8	88220															
	3122 Nation				Pho	one: 575-988-0055							Ana	lysis	and	Met	hod			EF	A Progra	ım
City, Stat	te, Zip: Carls	bad NM,	88220		Em	nail: agiovengo@ensolum.o	com													SDWA	CWA	RCRA
Phone:	575-988-005	5				cellaneous:																
Email: a	giovengo@e	nsolum.c	om							115	115									Compliand	ce Y	or N
									- 5	38 80	14 80	77	0	0.0	5	×	tals			PWSID #		
				Sam	ole Informatio	n				ROb	ROb	y 80.	/ 826	le 30	Z	- 500	3 Me					
Time Sampled	Date Sampled	Matrix	No. of Containers			Sample ID	Field	Lab Numb	ber	DRO/ORO by 8015	GRO/DRO by 8015	ВТЕХ ЬУ 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals				Remarks	
10:25	5/20/2025	S	1			BH08-4'		1							х					1.1		
10:29	5/20/2025	S	1			BH08-5'		2							Х					2.4		
10:35	5/20/2025	S	1			BH08-6'		3							х					1.4		
13:28	5/20/2025	S	1			BH09-41		4							х					1.8		
13:34	5/20/2025	S	1			BH09-5'		5							х					1.1		
14:54	5/20/2025	S	1			BH10A-4'		6							х					1.7		
14:58	5/20/2025	S	1			BH10A-5'		7							х					2.3		
15:02	5/20/2025	S	1			BH10A-6'		8							х					1.9		
15:51	5/20/2025	S	1			BH10B-4'		9							х					2.2		
15:55	5/20/2025	S	1			BH10B-5'		10	,						х					1.4		
Addition	al Instructio	nc: Plan	so CC: chi	ırton@en	solum com a	giovengo@ensolum.com, cl	hamilton			con	ı ies	trell	1 2@e	nsou	lm.c	om. l	simi	mons	@ensol	um.com.		
igonzale I, (field sam	7@ensolum	com. bm	nir@ensol	lum com	oaderinto@e																	
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Relinquish	ed by: (Signatur	e)	Date	21.25	1300	Received by (Signature)	Date 5	:22:2	5	Time	45				<u>T1</u>				T2		<u>T3</u>	
Relinquish	ed by: (Signatur	e)	Date		Time	Received by: (Signature)	Dati	e		Time					AVO	3 Ten	np °C					
Sample Ma	trix: S - Soil, Sd - S	olid, Sg - Slu	dge, A - Aqueo	ous, O - Othe			Cor	ntainer	Туре	:g-	glass,	p - p	oly/p	lastic	, ag -	amb	er gla	SS, V -	VOA			
						rangements are made. Hazardous							oosed	of at	the cli	ent ex	pense	e. The r	eport for	the analysis	of the abov	e samples is
applicable	only to those sa	amples rece	eived by the I	laboratory v	vith this COC. The	e liability of the laboratory is limite	d to the an	nount pa	id for	on th	ne rep	ort.										

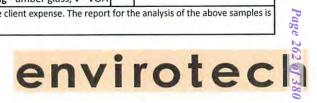




State
UT TX
Program
CWA RCRA
Y or N
marks

	Clie	nt Inforn	nation			Invoice Information	n				Lab	b Us	e On	ly				TA	T		State	
Client: N	Natador Proc	duction Co	ompany		Con	npany: Ensolum LLC		L	ab W	VO#			I doL	Numl	ber	_	1D	2D	3D Std	NM	CO UT	TX
Project:	Marbob State	e #001 SV	VD		Add	lress: 3122 National Parks	Hwy	E	E 51	05	246	0	230	W3.	000	2			X	X		
Project N	/lanager: Asl	hley Giov	engo		City	, State, Zip: Carlsbad NM, 8	38220	- 10														
Address:	3122 Nation	nal Parks	Hwy		Pho	ne: 575-988-0055							Ana	lysis	and	Met	hod			EP	A Progra	m
City, Stat	e, Zip: Carls	bad NM,	88220		Em	ail: agiovengo@ensolum.	com		-										- 1	SDWA	CWA	RCRA
	575-988-005					ellaneous:															11	
Email: a	giovengo@e	nsolum.c	om			7				15	15		11							Complianc	e Y	or N
		1000								y 80	/ 80	н	0	0.0		×	als			PWSID#		
				Sample I	nformatio	1				RO by	RO by	/ 802	8260	e 300	- NN	05 - T	Met					
Time	Date Sampled	Matrix	No. of Containers		d	Sample ID	Field	Lab Numb)	DRO/ORO by 8015	GRO/DRO by 8015	ВТЕХ ЬУ 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals				Remarks	
Sampled	F/20/2025		Containers			21140D CI	TL L	Numb	ber	<u> </u>	Ū	8	>	5	ĕ	P	2		_	2.0		
16:01	5/20/2025	S	1			3H10B-6'		11							Х					2.0		
16:29	5/20/2025	S	1			3H10C-4'		12							х					2.0		
16:34	5/20/2025	S	1		13	3H10C-5'		13)						х					1.2		
16:38	5/20/2025	S	1			BH10-6'		14	1						х					2.2		
									7													
		-					-															
Additio-	al Instruction	ns: Blac	aco CC: ch	urton@oncole	ım com o	giovengo@ensolum.com, c	hamilton	Menso	dum	com	iest	trell	a@e	nsou	lm c	om l	sim	mons	@ensoli	ım.com		
igonzale I, (field sam	7@ensolum	com. bm e validity and	oir@enso	lum.com.oad	erinto@er																	
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Mie	ed by: (Signatur	ongale	Date Sale	11-25 II	210	Received by: (Signature)	S.	21.2	5	Time 1	64	15			Rec	eived	d on i	ce:	Lab U	se Only		
. 1/	ed by: (Signatur		S Date	71.25 Time		Received by: (Signature) Received by: (Signature)	- 5	22.2	75	(o	45	5			<u>T1</u>				T2		<u>T3</u>	
-ennquish	ed by: (Signatur	e)	Date	lime		neceived by, (Signature)	Date		ľ	, mile					AVG	Ten	np °C					
Sample Ma	rix: S - Soil, Sd - S	iolid, S g - Slu	dge, A - Aque	ous, O - Other				ntainer														
Note: Sam	ples are discard	led 14 days	after results	s are reported un	less other ar	rangements are made. Hazardous	samples w	ill be ret	urned	to cli	ient or	r disp	osed	of at t	he cli	ent ex	pense	. The r	eport for	the analysis o	f the abov	e samples is
applicable	only to those sa	amples rece	eived by the	laboratory with t	his COC. The	liability of the laboratory is limite	d to the an	nount pai	id for	on th	e repo	ort.										





envirotech Inc.

Printed: 5/22/2025 7:36:23AM

Envirotech Analytical Laboratory

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.

Please: (973.173-7320) Does Longout to 957.1723 (4-2) Logged in by: Califla Marie Logged from the COC processor (974.173) (1974.173)	Client:	Matador Resources, LLC.	Date Received:	05/22/25	06:45	Work Order ID:	E505246
Chain of Custody (COC) 1. Does the sample ID match the COC? 2. Does the number of samples per sampling site location match the COC Yes 3. Were samples for proped of the yeliant or carrier? 4. Was the COC complete, i.e. signatures, dates/times, requested analyses? 5. Were all samples received within holding sime? 5. Were all samples received within holding sime? 6. Were all samples received within holding sime? 7. Were all samples received within holding sime? 7. Were all samples received are not included in this disuession. Sample Tourn Around Time (TAT) 6. Did the COC indicate standard TAT, or Expedited TAT? 7. Was a sample cooler received? 7. Was a sample cooler received in good condition? 7. Was a sample cooler received intext, i.e., not broken? 7. Was a typ share custody/security seals intact? 7. Was a typ share custody/security seals intact? 7. Was a typ share preceived in sic? 8. Note Thermal preservation is not required, if samples are received within 15 minutes of sampling 13. See COC for individual sample temps. Sample containers 14. Are aqueous XOC samples present? 15. Are VOC samples collected in VOA Vials? 16. Is the fined space less than 6.8 mm (pas sized or less)? 17. Was a trip blank (TB) included for VOC analyses? 18. Are non-VOC samples collected in the correct containers? 19. Is the appropriate volume-weight or number of sample containers of the sample share sited or sample containers of the sample share sited or the sample share	Phone:	(972) 371-5200	Date Logged In:	05/21/25	14:28	Logged In By:	Caitlin Mars
1. Does the sample ID match the COC? 2. Does the number of sampling per sampling site location match the COC 3. Were samples to repeat of law client or carrier? 4. Was the COC complete, i.e., signatures, datestimes, requested analyses? 5. Were all samples received within bolding time? 6. Were all samples received within bolding time? 7. Was a sample Couler received? 8. Were all samples received within bolding time? 7. Was a sample couler received? 8. Sample Couler received? 8. If yers, was couler received? 9. Was the sample (a) received intact, i.e., not broken? 9. Was the sample (a) received intact, i.e., not broken? 10. Were custody-security seals intact? 11. If yes, were custody-security seals intact? 12. Was the sample received on ice? 13. Sea COC for individual sample tomps. Samples outside of 0°C-6°C will be received within 1 Braintenes of sampling 1. Sea COC for individual sample tomps. Samples outside of 0°C-6°C will be received in comments. Sample Couler 1. Samples present? 14. Are aqueous VOC samples present? 15. Are VOC samples collected in VOC analyses? 16. Is the head space less than 6-8 mm (pea sized or less)? 17. Was a trip blank (TB) included for VOC analyses? 18. Are non-VOC samples collected in the correct containers? 19. Is the paperprise volume/weight or number of sample containers collected? 20. Were field sample labels filled out with the minimum information. Sample IDT collector? 21. Were filed sample labels filled out with the minimum information. Sample IDT collector? 32. Are samples; collected in volume than ne phase, i.e., multiphase? 34. Is lab filtration required and/or requested for dissolved metals? 35. No. Users field sample have more than one phase, i.e., multiphase? 36. Are samples required to get sent to a subcontract laboratory? 37. Are Samples have required to get sent to a subcontract laboratory? 38. Are samples required to get sent to a subcontract laboratory? 39. A subcontract Laboratory specified by the client and if so who? 39. No. Subcontract Laboratory.	Email:	agiovengo@ensolum.com	Due Date:	05/29/25	17:00 (4 day TAT)		
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15. Are VOC samples collected in VOA Vials? 16. Is the head space less than 6-8 mm (pea sized or less)? 17. Was a trip blank (TB) included for VOC analyses? 18. Are non-VOC samples collected in the correct containers? 19. Is the appropriate volume/weight or number of sample containers collected? 19. Is the appropriate volume/weight or number of sample containers collected? 19. Were field sample labels filled out with the minimum information: 10. Sample ID? 10. Date/Time Collected? 11. Does the COC or field labels indicate the samples were preserved? 12. Does the COC or field labels indicate the samples were preserved? 13. Is lab filtration required and/or requested for dissolved metals? 14. Is lab filtration required and/or requested for dissolved metals? 15. Does the sample have more than one phase, i.e., multiphase? 16. Does the sample have more than one phase, i.e., multiphase? 17. If yes, does the COC specify which phase(s) is to be analyzed? 18. Are samples required to get sent to a subcontract laboratory? 18. Are samples required to get sent to a subcontract laboratory? 18. Are samples required to get sent to a subcontract laboratory? 18. Are samples required to get sent to a subcontract laboratory? 19. No 19. No 10. Subcontract Lab: NA				3.7			
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29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA			0	3.7			
Client Instruction			•		Subcontract Lab: NA		
	Client I	<u>nstruction</u>					

Date

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

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





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Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Marbob State 001 SWD

Work Order: E508324

Job Number: 23003-0002

Received: 8/29/2025

Revision: 0

Report Reviewed By:

Draft Walter Hinchman Laboratory Director 9/2/25

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: 9/2/25

Ashley Giovengo 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240

Project Name: Marbob State 001 SWD

Workorder: E508324

Date Received: 8/29/2025 7:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/29/2025 7:15:00AM, under the Project Name: Marbob State 001 SWD.

The analytical test results summarized in this report with the Project Name: Marbob State 001 SWD 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 reguarding 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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Sample Summary

Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	Donoutodi
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	09/02/25 12:11

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
SS065'	E508324-01A Soil	08/27/25	08/29/25	Glass Jar, 2 oz.
SS07-0'	E508324-02A Soil	08/27/25	08/29/25	Glass Jar, 2 oz.
SS07-1'	E508324-03A Soil	08/27/25	08/29/25	Glass Jar, 2 oz.
SS08-0'	E508324-04A Soil	08/27/25	08/29/25	Glass Jar, 2 oz.
SS08-1'	E508324-05A Soil	08/27/25	08/29/25	Glass Jar. 2 oz.



Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/2/2025 12:11:23PM

SS06-.5' E508324-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: SL		Batch: 2535120
Benzene	ND	0.0250	1	08/29/25	08/29/25	
Ethylbenzene	ND	0.0250	1	08/29/25	08/29/25	
Toluene	ND	0.0250	1	08/29/25	08/29/25	
o-Xylene	ND	0.0250	1	08/29/25	08/29/25	
p,m-Xylene	ND	0.0500	1	08/29/25	08/29/25	
Total Xylenes	ND	0.0250	1	08/29/25	08/29/25	
Surrogate: 4-Bromochlorobenzene-PID		99.7 %	70-130	08/29/25	08/29/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2535120
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/25	08/29/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		102 %	70-130	08/29/25	08/29/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KH		Batch: 2535126
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/25	08/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/25	08/30/25	
Surrogate: n-Nonane		92.3 %	61-141	08/29/25	08/30/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2535121
Chloride	108	20.0	1	08/29/25	08/29/25	

Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/2/2025 12:11:23PM

SS07-0'

E508324-02

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: SL		Batch: 2535120
Benzene	ND	0.0250	1	08/29/25	08/29/25	
Ethylbenzene	ND	0.0250	1	08/29/25	08/29/25	
Toluene	ND	0.0250	1	08/29/25	08/29/25	
o-Xylene	ND	0.0250	1	08/29/25	08/29/25	
p,m-Xylene	ND	0.0500	1	08/29/25	08/29/25	
Total Xylenes	ND	0.0250	1	08/29/25	08/29/25	
Surrogate: 4-Bromochlorobenzene-PID		98.9 %	70-130	08/29/25	08/29/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: SL		Batch: 2535120
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/25	08/29/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		106 %	70-130	08/29/25	08/29/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: KH		Batch: 2535126
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/25	08/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/25	08/30/25	
Surrogate: n-Nonane		96.3 %	61-141	08/29/25	08/30/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: DT		Batch: 2535121
Chloride	ND	20.0	1	08/29/25	08/29/25	



Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/2/2025 12:11:23PM

SS07-1'

E508324-03

		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ar	nalyst: SL		Batch: 2535120
Benzene	ND	0.0250	1	08/29/25	08/29/25	
Ethylbenzene	ND	0.0250	1	08/29/25	08/29/25	
Toluene	ND	0.0250	1	08/29/25	08/29/25	
o-Xylene	ND	0.0250	1	08/29/25	08/29/25	
p,m-Xylene	ND	0.0500	1	08/29/25	08/29/25	
Total Xylenes	ND	0.0250	1	08/29/25	08/29/25	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	08/29/25	08/29/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2535120
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/25	08/29/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		103 %	70-130	08/29/25	08/29/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ar	nalyst: KH		Batch: 2535126
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/25	08/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/25	08/30/25	
Surrogate: n-Nonane		98.9 %	61-141	08/29/25	08/30/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ar	nalyst: DT		Batch: 2535121
Chloride	91.4	20.0	1	08/29/25	08/29/25	



Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/2/2025 12:11:23PM

SS08-0'

E508324	1 A
ESU032	t-V-

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ar	alyst: SL		Batch: 2535120
Benzene	ND	0.0250	1	08/29/25	08/30/25	
Ethylbenzene	ND	0.0250	1	08/29/25	08/30/25	
Toluene	ND	0.0250	1	08/29/25	08/30/25	
p-Xylene	ND	0.0250	1	08/29/25	08/30/25	
o,m-Xylene	ND	0.0500	1	08/29/25	08/30/25	
Total Xylenes	ND	0.0250	1	08/29/25	08/30/25	
Surrogate: 4-Bromochlorobenzene-PID		99.7 %	70-130	08/29/25	08/30/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2535120
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/25	08/30/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		104 %	70-130	08/29/25	08/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ar	alyst: KH		Batch: 2535126
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/25	08/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/25	08/30/25	
Surrogate: n-Nonane		96.5 %	61-141	08/29/25	08/30/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ar	alyst: DT		Batch: 2535121
Chloride	252	20.0	1	08/29/25	08/29/25	



Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/2/2025 12:11:23PM

SS08-1'

E508324-05

		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Aı	nalyst: SL		Batch: 2535120
Benzene	ND	0.0250	1	08/29/25	08/30/25	
Ethylbenzene	ND	0.0250	1	08/29/25	08/30/25	
Toluene	ND	0.0250	1	08/29/25	08/30/25	
o-Xylene	ND	0.0250	1	08/29/25	08/30/25	
p,m-Xylene	ND	0.0500	1	08/29/25	08/30/25	
Total Xylenes	ND	0.0250	1	08/29/25	08/30/25	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	08/29/25	08/30/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Aı	nalyst: SL		Batch: 2535120
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/25	08/30/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		105 %	70-130	08/29/25	08/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Aı	nalyst: KH		Batch: 2535126
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/25	08/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/25	08/30/25	
Surrogate: n-Nonane		98.4 %	61-141	08/29/25	08/30/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Aı	nalyst: DT		Batch: 2535121
Chloride	361	20.0	1	08/29/25	08/29/25	



QC Summary Data

Marbob State 001 SWD Matador Resources, LLC. Project Name: Reported: 5400 LBJ Freeway, Suite 1500 Project Number: 23003-0002 Dallas TX, 75240 Project Manager: Ashley Giovengo 9/2/2025 12:11:23PM **Volatile Organics by EPA 8021B** Analyst: SL Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2535120-BLK1) Prepared: 08/29/25 Analyzed: 08/29/25 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 ND 0.0250 Total Xylenes Surrogate: 4-Bromochlorobenzene-PID 8.09 8.00 101 70-130 LCS (2535120-BS1) Prepared: 08/29/25 Analyzed: 08/29/25 5.21 104 70-130 5.00 Benzene 0.0250 Ethylbenzene 5.15 0.0250 5.00 103 70-130 5.19 0.0250 5.00 104 70-130 Toluene 103 o-Xylene 5.15 0.0250 5.00 70-130 10.4 10.0 104 70-130 0.0500 p.m-Xvlene 104 15.6 15.0 70-130 Total Xylenes 0.0250 100 70-130 Surrogate: 4-Bromochlorobenzene-PID 8.03 8.00 Matrix Spike (2535120-MS1) Source: E508321-01 Prepared: 08/29/25 Analyzed: 08/29/25 5.28 0.0250 5.00 ND 70-130 Benzene 104 70-130 Ethylbenzene 5.21 0.0250 5.00 ND Toluene 5.26 0.0250 5.00 ND 105 70-130 5.21 ND 104 70-130 5.00 0.0250 o-Xylene p,m-Xylene 10.6 0.0500 10.0 ND 106 70-130 0.0250 15.0 ND 70-130 Total Xylenes Surrogate: 4-Bromochlorobenzene-PID 7.97 8.00 70-130 Source: E508321-01 Prepared: 08/29/25 Analyzed: 08/29/25 Matrix Spike Dup (2535120-MSD1) 5.32 0.0250 5.00 ND 70-130 0.652 27 70-130 0.923 5.26 0.0250 5.00 ND 105 26 Ethylbenzene Toluene 5 30 0.0250 5.00 ND 106 70-130 0.724 20 5.25 5.00 ND 105 70-130 0.726 25 o-Xylene 0.0250 23 10.7 10.0 ND 107 70-130 0.818 p,m-Xylene 0.0500 15.9 0.0250 15.0 ND 106 70-130 0.788 26 Total Xylenes Surrogate: 4-Bromochlorobenzene-PID 8.08 8.00 70-130 Prepared: 08/29/25 Analyzed: 08/29/25 Matrix Spike Dup (2535120-MSD2) Source: E508321-01 0.655 ND 70-130 156 27 Benzene 0.0250 0.786 0.0250 ND 70-130 148 26 Ethylbenzene 3.32 0.0250 ND 70-130 45.3 20 Toluene 25 o-Xylene 0.944 0.0250 ND 70-130 139



ND

ND

8.00

70-130

70-130

70-130

100

120

126

23

26

p.m-Xvlene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

2.63

3.57

8.01

0.0500

0.0250

Gasoline Range Organics (C6-C10)

Surrogate: 1-Chloro-4-fluorobenzene-FID

QC Summary Data

Marbob State 001 SWD Matador Resources, LLC. Project Name: Reported: 5400 LBJ Freeway, Suite 1500 Project Number: 23003-0002

Dallas TX, 75240		Project Manage	r: As	hley Gioven	go				9/2/2025 12:11:23PM
	Nor	halogenated	Organics l	by EPA 80	15D - GI	RO			Analyst: SL
Analyte			Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limi	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2535120-BLK1)							Prepared: (08/29/25	Analyzed: 08/29/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.36		8.00		104	70-130			
Matrix Spike Dup (2535120-MSD1)				Source:	E508321-0	01	Prepared:	08/29/25	Analyzed: 08/29/25
Gasoline Range Organics (C6-C10)	65.2	20.0		ND		70-130	22.4	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.32		8.00		104	70-130			
LCS (2535120-BS2)							Prepared:	08/29/25	Analyzed: 08/29/25
Gasoline Range Organics (C6-C10)	53.6	20.0	50.0		107	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.51		8.00		106	70-130			
Matrix Spike (2535120-MS2)				Source:	E508321-0	01	Prepared:	08/29/25	Analyzed: 08/29/25
Gasoline Range Organics (C6-C10)	52.1	20.0	50.0	ND	104	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.58		8.00		107	70-130			
Matrix Spike Dup (2535120-MSD2)				Source:	E508321-0)1	Prepared:	08/29/25	Analyzed: 08/29/25

20.0

8.32

104

70-130

70-130

QC Summary Data

Matador Resources, LLC.Project Name:Marbob State 001 SWDReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo9/2/2025 12:11:23PM

Dallas 1A, /3240		Project Manage	r. As	mey Gloveng	30				9/2/2023 12.11.23FW
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: KH
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2535126-BLK1)							Prepared: 0	8/29/25 A1	nalyzed: 08/29/25
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.1		50.0		90.1	61-141			
LCS (2535126-BS1)							Prepared: 0	8/29/25 Aı	nalyzed: 08/29/25
Diesel Range Organics (C10-C28)	224	25.0	250		89.4	66-144			
Surrogate: n-Nonane	45.1		50.0		90.2	61-141			
Matrix Spike (2535126-MS1)				Source:	E508323-	01	Prepared: 0	8/29/25 A1	nalyzed: 08/29/25
Diesel Range Organics (C10-C28)	242	25.0	250	ND	96.9	56-156			
Surrogate: n-Nonane	46.2		50.0		92.4	61-141			
Matrix Spike Dup (2535126-MSD1)				Source:	E508323-	01	Prepared: 0	8/29/25 A1	nalyzed: 08/29/25
Diesel Range Organics (C10-C28)	241	25.0	250	ND	96.5	56-156	0.441	20	
Surrogate: n-Nonane	45.4		50.0		90.8	61-141			



Chloride

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500	Matador Resources, LLC. Project Name: Mar 5400 LBJ Freeway, Suite 1500 Project Number: 230								Reported:
Dallas TX, 75240	Project Manager	shley Gioveng	go				9/2/2025 12:11:23PM		
		Anions	by EPA	300.0/9056 <i>A</i>	A				Analyst: DT
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2535121-BLK1)							Prepared: 0	8/29/25 A	nalyzed: 08/29/25
Chloride	ND	20.0							
LCS (2535121-BS1)							Prepared: 0	8/29/25 A	nalyzed: 08/29/25
Chloride	251	20.0	250		101	90-110			
Matrix Spike (2535121-MS1)				Source:	E508323-	01	Prepared: 0	8/29/25 A	nalyzed: 08/29/25
Chloride	452	20.0	250	188	106	80-120			
Matrix Spike Dup (2535121-MSD1)				Source:	E508323-	01	Prepared: 0	8/29/25 A	nalyzed: 08/29/25

250

20.0

188

101

80-120

2.56

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

l	Matador Resources, LLC.	Project Name:	Marbob State 001 SWD	
I	5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
l	Dallas TX, 75240	Project Manager:	Ashley Giovengo	09/02/25 12:11

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



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Page ____ of ___



nalytical	Laborat	ory																				
	Clier	nt Inform	nation		Invol	ce Information					Lab	Jse C	nly				TA	AT .			Stat	e
	tador Prod	THE RESERVE TO SHARE SHA			Company: Ensol				ab W				Nun			10	2D	3D S	td	NM	CO UT	TX
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	nager: Ash		THE RESERVE AND ADDRESS OF THE PARTY OF THE			Carlsbad NM, 8822	0	-1	Analysis and M							_(2m	41	212	5		
	122 Nation				Phone: 575-988			-	-	_	_	and s	vieti	nod			-	DWA	PA Progr CWA	RCRA		
	Zip: Carlsl 5-988-0055		88220		- Andrews - Andr	go@ensolum.com	-	_											13	DWA	CWA	KCKA
and the second s	ovengo@er		om		Miscellaneous:														Cc	mplian	ce Y	or N
iliali. agic	overigo@ei	isolulii.c	OIII				-	_		801	801		0		2					WSID#		10111
				Sample Inform	nation					9	V4 0	3260	88	\$.	Meta		N.	×		e 0		
Time Sampled D	ate Sampled	Matrix	No. of Containers		Sample ID		Field	Lab Numb	b ber	DRO/ORO by 8015	GRO/DRO by 8015	VOC by 8260	Chloride 300.0	TCEQ 1005 - TX	RCRA 8 Metals		BGDOC - NM	BGDOC - TX		Samle	Rei	marks
1020 8	7-21-25	S	1	SSO	65'			1									*		2	2.8	Che	1+
3855		1	1	550	1-0'			2									*		3	1.5	aska	d to
438				5507	-1-			3									7		2	.9	Char	igo
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140	V	V	V	5508	-1-			5									Y		2	2.9	19	ay.
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Sampled by: _	EVIC A	luge	authenticity Sen	na Highkle	re that tampering with or	intentionally mislabeling	the samp	ole loca	ation, d	ate o	r time of	collect	on is co	nsidered	frauc	d and r	nay be	grounds				
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Relinquished	by: (Signatur	re)		Date	Time	Received by: (Signatu	re)			-	Date			Time)/N	

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other Note: Samples are discarded 14 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.

to Imaging: 11/5/2025 11:02:30 AM



nalytical Laboratory																	
Client Information	Invoice	formation		-	Lab	Use	e Only	,			T	AT				State	e
Client: Matador Production Company	Company: Ensolu	LC		WO#			Job N			1D	2D	3D	Std	, [7	NM	CO UT	ТХ
Project Name: Marbob State #001 SWD			مُطا ۔	<u>508</u>	329		<u> 2300</u>	<u>3-0</u>	<u> </u>				x	ı [?	×		
Project Manager: Ashley Giovengo	City, State, Zip: Ca		-	_													
Address: 3122 National Parks Hwy	Phone: 575-988-		-	<u> </u>			Analy	sis ar	d Met	hod						A Progra	
City, State, Zip: Carlsbad NM, 88220	Email: agiovengo@ensolum.com		4											SDV	VA.	CWA	RCRA
Phone: 575-988-0055											Ì	i I					I N
mail: agiovengo@ensolum.com			_	1 55	2100			_	۱.,			1 1		Comp		e Y	or N
<u> </u>	Sample Information			O by	O by 8	8021	9560) N	Metak		 ≨				_		
Time Sampled Matrix No. of Containers	Sample ID	Field Filter	ımber	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	RCRA 8 Metals		BGDOC - NM	BGDOC - TX		Samle	Tem	Ren	narks
1020 8-21-25 5 1	55065'		<u> </u>			\downarrow					1			2.8	3		
5855	5507-0'	- -	۷_					_	_		*			3.5	5		
5138	5507-1-		3	Ш							1			2.0	8		
1130	5508-01 5508-1	- (٦_								K	Ш		2	9		
1/40 4 4	5508-1		<u> </u>					_			1			2.4	7		
Additional Instructions: Please CC: cb hinkle@ensolum.com, akone@ensolu														n.con	n,		
(field sampler), attest to the validity and authenticity ampled by: EVIC Pluge & Servine	of this sample. I am aware that tampering with or in	onally mislabeling the sample	location	n, date	or time	of coll	ection is	consid	ered frau	d and	may b	e groun	ds for	legal ac	tion.		
Inlinguished by (Signature)		red by: (Signature)	zal	les	Date	 ንእ	25	Tin	ືຫ	(3)						quiring th	nermal eceived on
latinguide of Survicion (survicion)		ved by: (Signature)	<i>u</i>		Date K./	<u></u>	25	Tin	15)		ice	the da	ay the	ey are sa	mpled or at a temp
telinguished by: (Signature) Maruasa Honzales	Date 8-18-25 Timpe 010 0	and har Cianatural a	lus		Date		3.2	Tie	ne	90				bove () but	less than uent day	6°C on
	Date 3.28.25 Time 73.15	yed by: (Signature)	<i>~</i>		Date			Tin	10						Lab (Jse Only	
	-	ived by: (Signature)			Date	<u> </u>	25	Tin	07	<u> </u>		$\mid \; \mid$		Re		ed on ic	e:
iample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqued		Contain	er Typ	e: g -	glass, į) - pc	oly/pla	stic, a	g - amb	er gl	ass, v		_	—			

Note: Samples are discarded 14 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 Inc.

Printed: 9/2/2025 10:37:59AM

Envirotech Analytical Laboratory

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 Resources, LLC.	Date Received:	08/29/25	07:15	Work Order ID:	E508324
Phone:	(972) 371-5200	Date Logged In:	08/28/25	15:42	Logged In By:	Caitlin Mars
Email:	agiovengo@ensolum.com	Due Date:	09/02/25	07:00 (1 day TAT)		
Chain of	Custody (COC)					
	he sample ID match the COC?		Yes			
	he number of samples per sampling site location ma	atch the COC	Yes			
	amples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was th	e COC complete, i.e., signatures, dates/times, reque	ested analyses?	Yes			
 Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion. 		Yes		Comment	s/Resolution	
Sample	Furn Around Time (TAT)	1011.				
	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample (
	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was th	e sample(s) received intact, i.e., not broken?		Yes			
	custody/security seals present?		No			
	were custody/security seals intact?					
•	,		NA			
	ne sample received on ice? Note: Thermal preservation is not required, if samples a 15 minutes of sampling		Yes			
13. See C	COC for individual sample temps. Samples outside of	of 0°C-6°C will be	recorded	in comments.		
	<u>Container</u>					
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers		Yes			
19. Is the	appropriate volume/weight or number of sample conta	iners collected?	Yes			
Field La	<u>bel</u>					
	field sample labels filled out with the minimum inf	formation:				
	ample ID?		Yes			
	Oate/Time Collected? Collectors name?		Yes			
	Preservation		Yes			
	the COC or field labels indicate the samples were p	reserved?	No			
	ample(s) correctly preserved?	reserved.	NA			
	filtration required and/or requested for dissolved m	netals?	No			
		iciais.	110			
	ase Sample Matrix	0	2.7			
	the sample have more than one phase, i.e., multipha		No			
27. II yes	s, does the COC specify which phase(s) is to be anal	iyzea?	NA			
	ract Laboratory					
	amples required to get sent to a subcontract laborate a subcontract laboratory specified by the client and	•	No NA	Subcontract Lab: NA		
Client I	nstruction_					
						
						_

Date

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



APPENDIX H

Remediation Closure Request



November 8, 2018

#5E26816 BG12

NMOCD District 2 Maria Pruett 811 S. 1st Street Artesia, New Mexico 88210

SUBJECT: Remediation Closure Report for the Marbob State #1 Release (2RP-4873-0), Eddy County, New Mexico

Dear Ms. Pruett:

On behalf of Matador Resources Company, Souder, Miller & Associates (SMA) has prepared this Remediation Closure Report that describes the remediation of a release of liquids related to oil and gas production activities at the Marbob State #1 site. The site is in Unit A, Section 19, Township 19S, Range 29E, Eddy County, New Mexico, on State of New Mexico land. Figure 1 illustrates the vicinity and site location on an USGS 7.5-minute quadrangle map.

Table 1 summarizes release information and Closure Criteria.

Table 1: Release Information and Closure Criteria								
Name	Marbob State #001	Company	Matador Resources Company					
API Number	30-015-26040	Location	32.65182 -104.1077576					
Incident Number	RP-4873-0							
Estimated Date of Release	6/29/2018	Date Reported to NMOCD	7/1/2018					
Land Owner	State of New Mexico	Reported To	Mike Bratcher					
Source of Release	Equipment failed causing the secondary containment to fill until the fluids spilled over the front of the battery.							
Released Volume	326 bbls	Released Material	Produced Water					
Recovered Volume	Unknown	Net Release	326 bbls					
NMOCD Closure Criteria	>100 feet to groundwater							
SMA Response Dates	7/10/2018, 7/20/2018, 7/24/2018 & 11/5/2018							

Marbob State #1 Remediation Closure Report (2RP-4873-0) November 8, 2018 Page 2 of 4

1.0 Background

On June 29, 2018, a release was discovered at the Marbob State #01 site due to equipment failure. Initial response activities were conducted by Matador and included shutting down the location and using a vacuum truck to collect all standing fluids. All recovered fluid went to a NMOCD approved disposal facility. Figure 1 illustrates the regional vicinity and wellhead protection in the area, Figure 2 illustrates the surface water protection in the area, and Figure 3 illustrates the site and sample location map. The initial and final C-141 form is included in Appendix A.

2.0 Site Information and Closure Criteria

The Marbob State #001 is located approximately 10 miles west of Hackberry Lake Located in Eddy County New Mexico on State land at an elevation of approximately 3,364 feet above mean sea level (amsl).

Based upon OSE and USGS (Appendix B), depth to groundwater in the area is estimated to be 131 feet below grade surface (bgs). There are no known water sources within ½-mile of the location, according to the New Mexico Office of the State Engineer (NMOSE) online water well database (https://gis.ose.state.nm.us/gisapps/ose_pod_locations/; accessed 10/4/2018). The nearest significant watercourse is the Pecos River, located approximately 11.3 miles to the east. Figure 1 illustrates the site location lying within a sensitive area as described in 19.15.29.12.C(4) NMAC. According to the Bureau of Land Management's Karst Potential Map, the location falls within an area with high karst potential. After observing the geology and surface features of the location both aerially and in person and finding no outstanding evidence of high karst on or around location, SMA then contracted Cave & Karst Surface Evaluation to perform a cave and karst survey of the area. The release area was established in the pad and pasture and then a 200-meter buffer surveyed around the perimeter and inspected for cave and karst concerns. It was concluded that there were no cave or karst concerns found within the 200-meter buffer zone of the release. The cave and karst survey report and map can be found in Appendix C.

Based on the information presented herein, the applicable NMOCD Closure Criteria for this site is for a groundwater depth of greater than 100 feet bgs. The site has been restored to meet the standards of Table I of 19.15.29.12 NMAC as well as completely delineated.

Table 2 demonstrates the Closure Criteria applicable to this location. Pertinent well data is attached in Appendix B.

3.0 Release Characterization Activities and Findings

On July 10, 2018, SMA personnel arrived on site in response to the release associated with Marbob State #1. SMA performed site delineation activities by collecting soil samples around the release site and throughout the visibly stained area. Soil samples were field-screened for chloride using an electrical conductivity (EC) meter. A total of 3 sample locations (BH1-BH3) were investigated on the pad using a hand-auger, to depths up to three (3) feet bgs.

After receiving elevated chloride data on lab analysis from that sampling event, SMA returned to the location to further delineate the release on July 20, 2018. The three sample locations (BH1-BH3) were advanced to depths up to 8 feet bgs and an additional 3 sample locations were created to establish vertical delineation in the pasture (BH4-BH6). SMA established the horizonal extent of the release on the pad (SW1-SW5).

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Marbob State #1 Remediation Closure Report (2RP-4873-0) November 8, 2018 Page 3 of 4

Delineation and confirmation samples were collected for laboratory analysis for a combination of total chloride using EPA Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D. Table 3 itemizes the samples and field-screening results as well as identifying any variances from the typical specification of two samples per boring. Locations for all samples are depicted on Figure 3.

Samples were placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico (Appendix D).

As summarized in Table 3, results indicate that an area approximately 7420 square feet on the pad and 2400 square feet in the pasture have been impacted.

4.0 Soil Remediation Summary

After approval from area utilities via 811, SMA returned to the site to guide the excavation activities by collecting soil samples for field screening. Samples were screened for chloride using an electrical conductivity (EC) meter. The walls and base were excavated until field screening results indicated that the NMOCD Closure Criteria would be met. NMOCD was not notified 48 hrs prior to closure samples being collected due to the fact they were collected before NMAC - Rp, 19.15.29.5 NMAC, 8/14/2018 was put into effect.

SMA returned to location to oversee the remainder of the excavation of the pasture on July 24, 2018 and collected 10 additional confirmation sidewall samples (SW6-SW15). The release area in the pasture represented by sample locations (BH4-BH6) was excavated to a depth of 4 feet bgs, the area represented by BH3 was excavated to a depth of 4 feet bgs, and the area represented by BH1 and BH2 were excavated to 2 feet bgs. Because of construction that operations needed to complete on the pad, contaminated soils were removed and then replaced with clean backfill material to return the surface to previous contours before return on the lab analysis from the July 24th sampling event.

SMA then returned to the location on November 5, 2018 to complete the delineation of chlorides (once the construction was complete) at BH1-BH6 and collect closure sidewall samples SW1, SW2, SW6 and SW10.

Figure 3 shows the impact and sample locations. All field screening and laboratory results are summarized in Table 3. Laboratory reports are included in Appendix D.

In addition to meeting the Closure Criteria, the top four (4) feet of impacted areas off the well pad meet the Reclamation requirement of 19.15.29.13(D)(1) as they were removed and replaced with clean material. The contaminated soil was transported and disposed of at an NMOCD permitted disposal facility.

5.0 Scope and Limitations

The scope of our services included: assessment sampling; verifying release stabilization; regulatory liaison; remediation; and preparing this closure report. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

If there are any questions regarding this report, please contact either Austin Weyant at 575-689-8801.

Released to Imaging: 11/5/2025 11:02:30 AM

Marbob State #1 Remediation Closure Report (2RP-4873-0) November 8, 2018

Source Michelloth J. Hostin Wegant

Page 4 of 4

Submitted by:

SOUDER, MILLER & ASSOCIATES

Reviewed by:

Lucas Middleton Staff Scientist Austin Weyant Senior Scientist

ATTACHMENTS:

Figures:

Figure 1: Vicinity and Well Head Protection Map

Figure 2: Surface Water Protection Map Figure 3: Site and Sample Location Map

Tables:

Table 2: NMOCD Closure Criteria Justification

Table 3: Summary of Sample Results

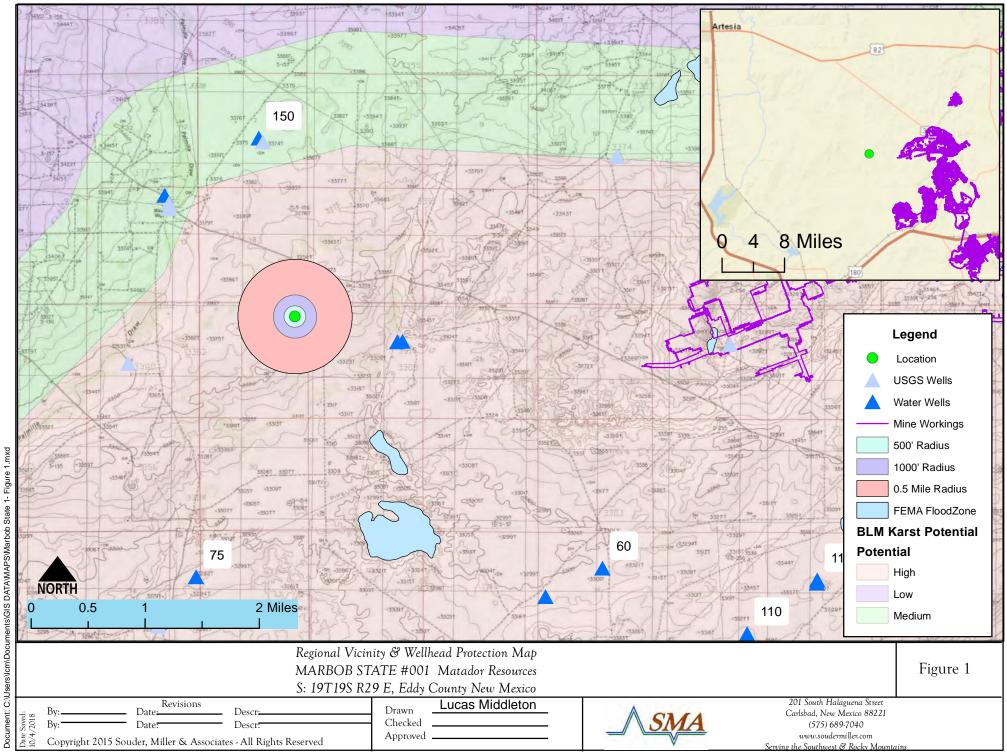
Appendices:

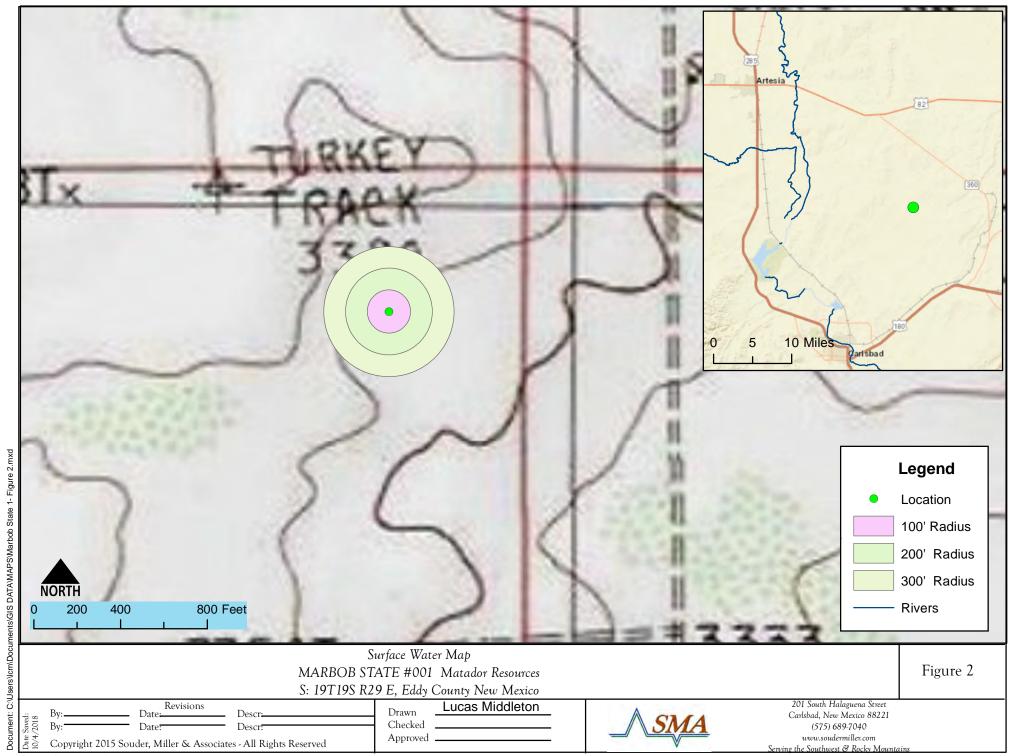
Appendix A: Form C141

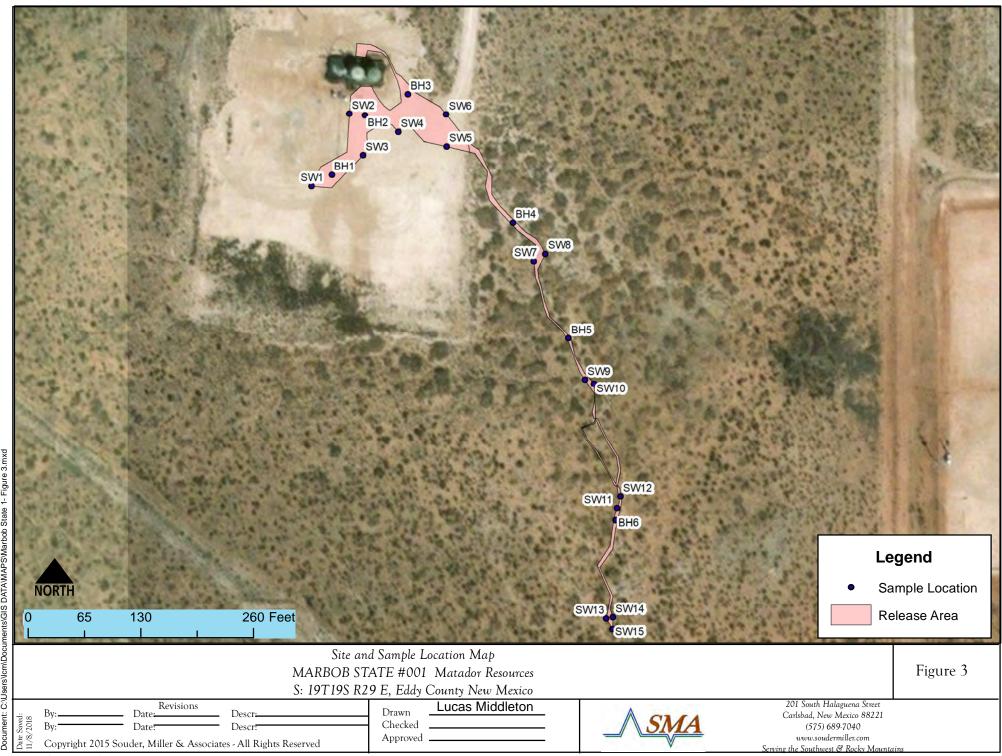
Appendix B: NMOSE Wells Report

Appendix C: Cave & Karst Surface Evaluation Appendix D: Laboratory Analytical Reports

FIGURES







TABLES

Site Information (19.15.29.11.A(2, 3, and 4) NMAC)	Source/Notes	
Depth to Groundwater (feet bgs)	131	USGS & OSE
Hortizontal Distance From All Water Sources Within 1/2 Mile (ft)	0	USGS & OSE
Hortizontal Distance to Nearest Significant Watercourse (ft)	11.3	USGS 7.5' Topographic. Project is west of Pecos River

Closure Criteria (19.15.2	29.12.B(4) an	d Table 1 NMAC)					
	Closure Criteria (units in mg/kg)						
Depth to Groundwater	Chloride *numerical limit or background, whichever is greater	ТРН	GRO + DRO	ВТЕХ	Benzene		
< 50' BGS		600	100		50	10	
51' to 100'		10000	2500	1000	50	10	
>100'	Х	20000	2500	1000	50	10	
Surface Water		if ye	s, then				
<300' from continuously flowing watercourse or other significant watercourse? <200' from lakebed, sinkhole or playa lake? Water Well or Water Source	NO NO						
<500 feet from spring or a private, domestic fresh water well used by less than 5 households for domestic or stock watering purposes? <1000' from fresh water well or spring?	NO NO						
Human and Other Areas		600	100		50	10	
<300' from an occupied permanent residence, school, hospital, institution or church? within incorporated municipal boundaries or within a defined	NO						
municipal fresh water well field?	NO						
<100' from wetland?	NO	1					
within area overlying a subsurface mine	NO						
within an unstable area?	YES**						
within a 100-year floodplain?	NO						

 $[\]ensuremath{^{**}}\mbox{According to BLM Karst Potential Map. Please see additional Karst Survey attached}$

Table 3: Summary of Sample Results

Matador Resources Company Marbob State #001 (RP#RP-4873-0)

Sample ID	Sample Date	Depth (feet	Action Taken	BTEX	Benzene	GRO	DRO	MRO	Total TPH	Cl-	Cl- Field Screening
·	·	bgs)		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	PPM
NMOCD Closure Criteria			50	10				2500	20000		
	7/10/2018	1	Excavated			<5	<10	<50	<65.0	1100	
	7/20/2018	1.5	Excavated								1021
	7/10/2018	2	Excavated			<5	<10	<50	<65.0	1000	
BH1	7/20/2018	2	In-Situ	<0.207	<0.023	<4.6	<9.8	<49	<63.4	650	
DIII	7/10/2018	3	In-Situ			<4.9	<9.9	<50	<64.8	1400	
	7/20/2018	4	In-Situ							1300	
	7/20/2018	6	In-Situ	<0.213	<0.023	<4.7	<9.9	<50	64.6	1100	
	11/5/2018	8	In-Situ							100	
	7/20/2018	1.5	Excavated	<0.207	<0.023				<20	920	577
BH2	7/10/2018	2	Excavated			<4.9	<10	<50	<64.8	740	230
DITE	7/20/2018	6	In-Situ						<20	780	
	11/5/2018	12	In-Situ							140	
	7/10/2018	1	Excavated			<4.8	<9.9	<50	<64.7	650	
	7/20/2018	1.5	Excavated								3609
	7/10/2018	2	Excavated			<4.7	<9.9	<50	<64.6	480	
BH3	7/20/2018	4	Excavated						<20	2000	1705
	7/20/2018	6	In-Situ							1700	966
	7/20/2018	8	In-Situ						<20	1100	<237.4
	11/5/2018	10	In-Situ	<0.096	<0.024					550	
	7/20/2018	2	Excavated	<0.212	<0.024				<20	980	2667
	7/20/2018	3	Excavated							1500	
BH4	7/20/2018	4	Excavated							2700	8575
	7/20/2018	6	In-Situ						<20	2000	
	11/5/2018	8	In-Situ							340	
BH5	7/24/2018	3	Excavated	<0.224	<0.025	<5.0	<9.9	<50	<64.9	840	<237.4
БПЭ	11/5/2018	5	In-Situ							180	
	7/24/2018	3	Excavated								5261
вн6	7/24/2018	4	Excavated	<0.216	<0.024	<4.8	<10	<50	<64.8	2000	
DITO	7/24/2018	6	In-Situ								966
	11/5/2018	8	In-Situ							120	
SW1	7/20/2018		sidewall							820	400
3001	11/5/2018		sidewall							67	
SW2	7/20/2018		pipeline							5800	5177
3002	11/5/2018		deferral							2200	
SW3	7/20/2018		sidewall							370	251
SW4	7/20/2018		sidewall							420	
SW5	7/20/2018		sidewall							230	<237.4
CVVC	7/24/2018		sidewall							800	564
SW6	11/5/2018		sidewall							310	
SW7	7/24/2018		sidewall							<30	<237.4
SW8	7/24/2018		sidewall							<30	<237.4
SW9	7/24/2018		sidewall							<30	<237.4
	7/24/2018		sidewall							860	168
SW10	11/5/2018		sidewall							<30	
SW11	7/24/2018		sidewall							73	<237.4
SW12	7/24/2018		sidewall							<30	<237.4
SW13	7/24/2018		sidewall							<30	
SW14	7/24/2018		sidewall							170	<237.4
SW15	7/24/2018		sidewall							<30	<237.4

[&]quot;--" = Not Analyzed

^{* =} per Reclamation Standard (19.15.29.13.D(1) NMAC)

APPENDIX A FORM C141

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 IY
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

JUL 2 3 2018

Form C-141 Revised April 3, 2017

Oil Conservation Division 1220 South St. Francis Dr. DISTRICT II-ARTES BY A SEPRENTIAL DISTRICT VICANTES BY ACCORDANCE WITH 19.15.29 NMAC.

Santa Fe, NM 87505

Release Notification and Corrective Action												
	32114					OPERA			Initial	al Report		Final Report
	Name of Company Matador Resources Company 228437 Address 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240					Contact Casey Snow Telephone No. (972) 371-5439						
	Facility Name MARBOB STATE #001					Facility Typ		737				
Surface Ow	nor State o	f Now May		Minaral		State of New	Maxico		I ADI No	. 30-015-2	6040	
Surface Ow	nei Siate C	I NEW MICK							AFINO	. 30-013-2	0040	
I I - it I - itte-	C4:	T	D			N OF REI		C4/	West Line	Country		
Unit Letter A	Section 19	Township 198	Range 29E	Feet from the 660		South Line North	Feet from the 680		West Linc West	County Eddy		
	<u> </u>							ļ		<u> </u>		
	Latitude 32.65182 Longitude 104.1077576 NAD83											
				NAT	URE	OF RELI	EASE					
Type of Rele							Release 326 bbls			Recovered u		
Source of Re	leasc-Hiega	omming				Date and H	lour of Occurrence	æ	1	Hour of Dis \sim 4:00p.m	covery	′
Was Immedia	ate Notice (Von [No □ Not Ro	anirad.	If YES, To Mike Brate			1 ** 7*2 *.*			
By Whom? I	ucas Midd		163	1 NO NOUNC			lour 7/2/18	<u> </u>	2000	* em	ni)	
Was a Water		ched?	· · · · ·				lume Impacting			75 8710	M.L.	
			Yes 🗵	No		l						
If a Watercou	irse was Im	pacted, Descr	ibe Fully.									
N/A												
		em and Reme			- a Gid	a anillad awar	the foot of the h		:	and naalad		and marking
				ment to fill until the was on site vacut				anery m	mining cast	and pooled	on pau	anu pasture.
		and Cleanup										
				o areas one North delineate and ren						ınd down in	to the	pad and
pustare. 140	···dici ···ays	word readined.	Olvin C Will	dominate and ren	ilouiuc.	ine site us per	THIOCD THIOS II		illurons.			1
I hereby certi	fy that the	information e	iven ahove	is true and comp	lete to t	he best of my	knowledge and u	ındersta	nd that pur	suant to NM	OCD	rules and
regulations a	ll operators	are required t	o report a	nd/or file certain r	elease n	otifications a	nd perform correc	ctive ac	tions for rel	eases which	may e	ndanger
				cc of a C-141 repo								
or the enviro	nment. In a	uddition, NM(OCD accep	otance of a C-141								
federal, state,	or local la	ws and/or regi	ulations.		f	<u>-,,</u>	OIL CON	SERV	/ATION	DIVISIO)N	
n			<u>)</u>				OIL COIL	SLIC	AHON	DIVISIO	<u> </u>	
Signature: <						Approved by	Cavironmental S	!nacialie	#1			
						Approved by	Environmental S Signed By_	JA,	14 De	artulese_		
Printed Name	e: Casey S	now					1011	, 1		N/I	1	
Title: Manag	ger Regula	tory, Enviro	nmental,	& Safety		Approval Da	te: 7134118	5	Expiration	Date:	H	
E-mail Addre	ess: csnow	@matadorre	sources.c	om		Conditions of	f Approval:		1		~ ~	,
Data	717/10			ana:(072) 371 S			Bee at	tani	hed	Attacheg		24873

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 7/23/18 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number APH 3 has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 2 office in ARTESIA on or before 8/23/18. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- •Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.
- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.
- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold

OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us

Received by OCD: 9/18/2025 7:44:40 AM

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

			Res	sponsible Pa	rty				
Responsible	Party: Mata	dor Resources		OGRII	D: 228937				
Contact Name: John Hurt					Contact Telephone: 972-371-5200				
Contact email: Jhurt@matadorresources.com					t # (assigned by OCD) 2RP4873/nAB1821141249				
Contact mail TX 75240	ling address:	: 5400 LBJ Freew	ay, Suite 1500 D	allas,					
			Location	n of Release	Source				
Latitude 32.6	55182		Longitude (NAD 83 in a	-104.107 decimal degrees to 5 a					
Site Name: M	1arbob State	SWD #001		Site Ty	pe: SWD				
Date Release	Discovered	: 6/29/18		API# (i)	applicable) 30-015-26040				
Unit Letter	Section	Township	Range	C	ounty				
A	19	198	29E	EDDY					
	Marada	alta) Dalassa I (Calaas		nd Volume o					
Crude Oi	I	Volume Releas		en calculations or spec	Volume Recovered (bbls)				
☑ Produced	Water	Volume Releas	ed (bbls) 326		Volume Recovered (bbls) unknown				
		Is the concentra	tion of dissolved >10,000 mg/l?	chloride in the	⊠ Yes □ No				
Condensa	ate	Volume Releas			Volume Recovered (bbls)				
☐ Natural C	as	Volume Releas	ed (Mcf)		Volume Recovered (Mcf)				
Other (describe) Volume/Weight Released (provide units			t Released (provi	de units)	Volume/Weight Recovered (provide units)				
Cause of Rel There was an pooled on the	equipment		e secondary cont	ainment to fill and	d overflow over the front of the battery running east and				

Page 2 Oil Conservation Division

Incident ID	Page 298 of 38
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release? >25 bbls						
19.15.29.7(A) NMAC?							
⊠ Yes □ No							
If VES was immediate r	notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?						
	D District II on 7/2/18 via email						
	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 rel	ease has been stopped.						
	as been secured to protect human health and the environment.						
Released materials h	ave been contained via the use of berms or dikes, absorbent pads, or other containment devices.						
All free liquids and r	recoverable materials have been removed and managed appropriately.						
	ed above have <u>not</u> been undertaken, explain why:						
The location was shut do	wn and a vacuum truck was on site vacuuming all standing fluids.						
1							
	AC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred						
	nt area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.						
	ormation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and						
	required to report and/or file certain release notifications and perform corrective actions for releases which may endanger ment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have						
failed to adequately investig	gate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In						
addition, OCD acceptance of and/or regulations.	of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws						
Printed Name: John Hurt	Title: PES Specialist						
	V Ledic						
Signature:	Signature:						
email: Jhurt@matadorresources.com Telephone: 972-371-5200							
OCD O-I-							
OCD Only							
Received by:	Date:						

RECEIVED by ADCD: 9/18/2025 7:44:40 AN tate of New Mexico
Page 3 Oil Conservation Division

Incident ID	NAB18211412499 of 380
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?					
Did this release impact groundwater or surface water?	☐ Yes ⊠ No				
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No				
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No				
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ 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?					
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?					
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?					
Are the lateral extents of the release within 300 feet of a wetland?					
Are the lateral extents of the release overlying a subsurface mine? PLEASE SEE	☐ Yes ⊠ No				
Are the lateral extents of the release overlying an unstable area such as karst geology? APPENDIX C FOR CAVE AND KARST	⊠ Yes □ No				
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No				
Did the release impact areas not on an exploration, development, production, or storage site?	⊠ Yes □ No				
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and 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.

Page 4 Oil Conservation Division

Incident ID	NAB1821141249 of 38
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Facility ID	
Application ID	

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: John Hurty Title: RES Specialist

Signature:

Date:

Date:

Date: 12/07/2022

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

Received by OCD: 9/18/2025 7:44:40 A Matate of New Mexico
Page 5 Oil Conservation Division

Incident ID	NAB1821141249 of 380
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: Each of the following items must be incl	uded in the closure report.
A scaled site and sampling diagram as described in 19.15.29.11 NMAC	
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)	There is not a picture of the open excavation as the work was completed before NMAC – RP 19.15.29.5 NMAC, 8/14/2018 was put into effect
☐ Laboratory analyses of final sampling (Note: appropriate ODC District office m	ust be notified 2 days prior to final sampling)
☐ Description of remediation activities	
may endanger public health or the environment. The acceptance of a C-141 report by should their operations have failed to adequately investigate and remediate contamina human health or the environment. In addition, OCD acceptance of a C-141 report do compliance with any other federal, state, or local laws and/or regulations. The responsestore, reclaim, and re-vegetate the impacted surface area to the conditions that exist accordance with 19.15.29.13 NMAC including notification to the OCD when reclams Printed Name: John Hurt Pitle: RES Specialist Signature: Date: Date: Date:	ation that pose a threat to groundwater, surface water, es not relieve the operator of responsibility for asible party acknowledges they must substantially ed prior to the release or their final land use in
OCD Only	
Received by: Date:	12/07/2022
Closure approval by the OCD does not relieve the responsible party of liability should remediate contamination that poses a threat to groundwater, surface water, human heal party of compliance with any other federal, state, or local laws and/or regulations.	
Closure Approved by: Date:	
Printed Name: Title:	

APPENDIX B NMOSE WELLS REPORT



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned, C=the file is

closed)

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

(quarters are smallest to largest) (N

(NAD83 UTM in meters)

(In feet)

 POD

 Sub Q Q Q
 Depth Depth Water

 POD Number
 Code basin County 64 16 4 Sec Tws Rng
 X
 Y
 Distance Well Water Column

 CP 00646
 CP ED 1 1 4 07 19S 29E 583155 3615551 €
 2565 199 150 49

Average Depth to Water: 150 feet

Minimum Depth: 150 feet

Maximum Depth: 150 feet

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 583676.79 **Northing (Y):** 3613040.29 **Radius:** 3000

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

APPENDIX C CAVE & KARST SURFACE EVALUATION

SOUDER, MILLER & ASSOCIATES 201 S. HALAGUENO CARLSBAD, NEW MEXICO, 88220

MATADOR PRODUCTION COMPANY, MARBOB STATE #001 SWD PAD SECTION 19, TOWNSHIP 19 SOUTH, RANGE 29 EAST EDDY COUNTY, NEW MEXICO CAVE AND KARST SURFACE EVALUATION

6 NOVEMBER 2018

Work was started and completed on 6 NOVEMBER. 2018.

The area in question was identified. The old spill area was determined. A 200 meter buffer was walked around the perimeter of the entire area and checked for cave and karst concerns. A thorough examination of the pad, which required a coordinated walking search of the entire old spill area was also completed looking for the possibility of any cave & karst concerns. No accounting as to migration of underground seepage, if any, was attempted.

Points were established using Garmin GPSMAP 64 hand-held GPS units with 13 S, NAD 83 as the datum. Point coordinates were determined by scaling the kmz provided.

50 meter wide grid lines were walked from East to West on 3613300N, 3613250N, 3613100N, 3613050N, 3612900N, & 3612850N starting at 583900E, the edge of an oil field road and ending at 583400E.

And

50 meter wide grid lines were walked from West to East on 3613200N, 3613150N, 3613300N, 3613250N, 3612800N, & 3612750N starting at 583400E and ending at 583900E, the edge of the oil field road.

This pattern thoroughly covers the pad and the "spill" area.

These coordinates were determined:

AREA CORNER COORDINATES

NW CORNER	583634E, 3613102N
SW CORNER	583628E, 3613030N
NE CORNER	583729E, 3613083N
SE CORNER	583723E, 3613021N
RUNOFF NW EDGE OF SPILL	583728E, 3613046N
RUNOFF NE EDGE OF SPILL	583721E, 3613023N
RUNOFF WEST SPILL EDGE	583747E, 3613006N
RUNOFF EAST SPILL EDGE	583751E, 3613010N
RUNOFF SW END OF SPILL	583771E, 3612913N
RUNOFF SE END OF SPILL	583784E, 3612914N

The 200 meter buffer around the affected area produced these findings:

FINDING	EUTM NUTM	DESCRIPTION	TREND
#1	584990 3613250	POWER POLES	NORTH TO SOUTH
#2	584900 3613250	C/L ROAD	EAST TO WEST
#3	584722 3613250	C/L LEASE RD	SOUTH TO NORTH
#4	584426 3613250	ENTERPRISE BPL	EAST TO WEST
#5	584446 3613250	STEEL SURF LINE	EAST TO WEST
#6	584445 3613250	BPL	EAST TO WEST
#7	584394 3613150	ENTERPRISE BPL	EAST TO WEST
#8	584240 3613150	SURF POLY LINE	EAST TO WEST
#9	584488 3613237	TURKEY TRACK US	SGS ELEV MARKER
#10	584537 3613154	MATADOR BPL	NORTH TO SOUTH
#11	584630 3613142	DCP SURFACE VAI	LVE
#12	584650 3613142	DCP BPL	NORTH TO SOUTH
#13	584650 3613152	DCP BPL	EAST TO WEST

#14	584627 3613145	BPL	NORTH TO SOUTH
#15	584729 3613151	C/L LEASE ROAD	NORTH TO SOUTH
#16	584873 3613146	HOLLY ENERGY BP	L N TO S
#17	584665 3613060	2" POLY BPL	
#18	584653 3613054	MATADOR BPL	NORTH TO SOUTH
#19	584643 3613054	PHILLIPS/DCP BPL	NORTH TO SOUTH
#20	584643 3613050	TEST & CONTROL F	PANEL
#21	584635 3613051	MATADOR BPL	NORTH TO SOUTH
#22	584574 3613045	SURF 4" POLY LINE	NE TO SW
#23	584458 3613037	HOLLY ENERGY BP	L NW TO SE
#24	584564 3613943	BPL	NW TO SE
#25	584564 3613919	HOLLY ENERGY BP	L N TO S
#26	584604 3613810	SURFACE METERIN	IG VALVE

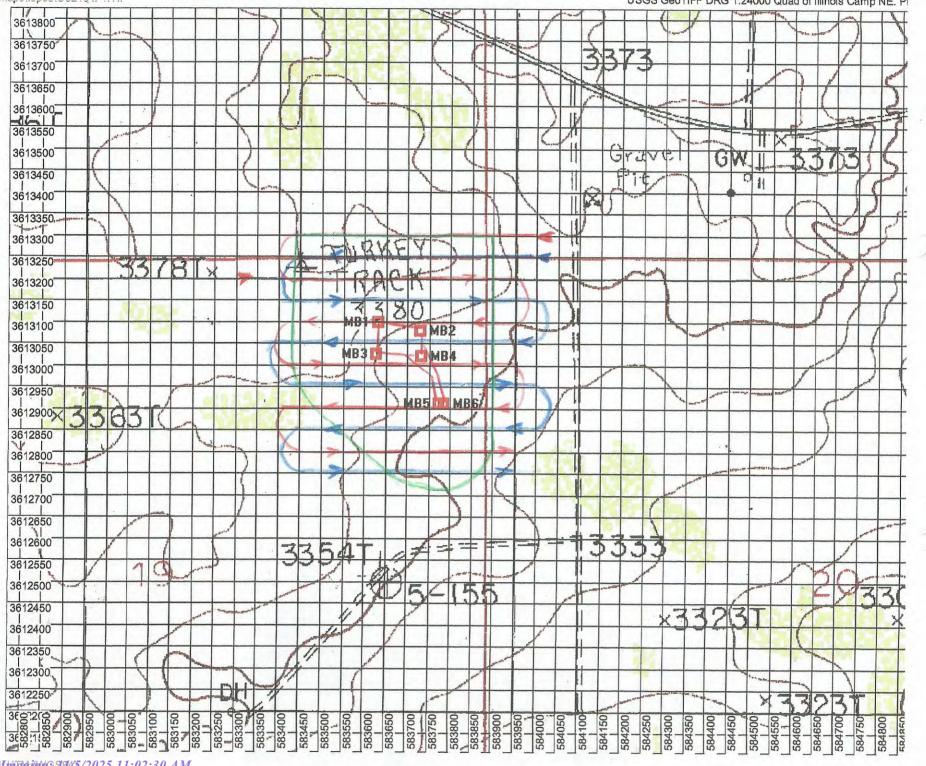
The area indicated on the kmz provided to us showing the spill area was thoroughly walked. No sign of the alleged spill could be found. No drainage to the subsurface was identified.

No cave or karst concerns were found within the 200 meter buffer zone.

This evaluation includes only features apparent on the surface and does not include features which may exist sub-surface.

Photographs were taken and are included in this report.

David S. Belski
Cave and Karst Surface Evaluation



APPENDIX D LABORATORY ANALYTICAL REPORTS



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

July 24, 2018

Austin Weyant Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-7040

FAX

RE: Marbob State OrderNo.: 1807714

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 6 sample(s) on 7/13/2018 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 7/24/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L1-1'

Project: Marbob State
 Collection Date: 7/10/2018 2:05:00 PM

 Lab ID: 1807714-001
 Matrix: SOIL
 Received Date: 7/13/2018 8:50:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: CJS
Chloride	1100	30	mg/Kg	20	7/18/2018 1:15:56 PM	39266
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst	:: Irm
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	7/17/2018 4:31:04 PM	39230
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/17/2018 4:31:04 PM	39230
Surr: DNOP	106	70-130	%Rec	1	7/17/2018 4:31:04 PM	39230
EPA METHOD 8015D: GASOLINE RANGE					Analyst	:: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/16/2018 6:13:39 PM	39201
Surr: BFB	95.6	15-316	%Rec	1	7/16/2018 6:13:39 PM	39201

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 7/24/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L1-2'

Project: Marbob State
 Collection Date: 7/10/2018 2:15:00 PM

 Lab ID: 1807714-002
 Matrix: SOIL
 Received Date: 7/13/2018 8:50:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: CJS
Chloride	1000	30	mg/Kg	20	7/18/2018 1:28:20 PM	39266
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst	:: Irm
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	7/17/2018 5:39:31 PM	39230
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/17/2018 5:39:31 PM	39230
Surr: DNOP	105	70-130	%Rec	1	7/17/2018 5:39:31 PM	39230
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/16/2018 6:36:59 PM	39201
Surr: BFB	93.4	15-316	%Rec	1	7/16/2018 6:36:59 PM	39201

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 7/24/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L1-3'

 Project:
 Marbob State
 Collection Date: 7/10/2018 2:20:00 PM

 Lab ID:
 1807714-003
 Matrix: SOIL
 Received Date: 7/13/2018 8:50:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: SRM
Chloride	1400	75	mg/Kg	50	7/19/2018 7:26:04 PM	39266
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst	: Irm
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	7/17/2018 6:02:29 PM	39230
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/17/2018 6:02:29 PM	39230
Surr: DNOP	100	70-130	%Rec	1	7/17/2018 6:02:29 PM	39230
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/16/2018 7:00:22 PM	39201
Surr: BFB	90.9	15-316	%Rec	1	7/16/2018 7:00:22 PM	39201

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 7/24/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L2-2'

 Project:
 Marbob State
 Collection Date: 7/10/2018 2:45:00 PM

 Lab ID:
 1807714-004
 Matrix: SOIL
 Received Date: 7/13/2018 8:50:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: CJS
Chloride	740	30	mg/Kg	20	7/18/2018 2:42:48 PM	39266
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst	:: Irm
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	7/17/2018 6:25:25 PM	39230
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/17/2018 6:25:25 PM	39230
Surr: DNOP	82.4	70-130	%Rec	1	7/17/2018 6:25:25 PM	39230
EPA METHOD 8015D: GASOLINE RANGE					Analyst	:: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/16/2018 7:23:43 PM	39201
Surr: BFB	89.9	15-316	%Rec	1	7/16/2018 7:23:43 PM	39201

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 7/24/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L3-1'

 Project:
 Marbob State
 Collection Date: 7/10/2018 3:00:00 PM

 Lab ID:
 1807714-005
 Matrix: SOIL
 Received Date: 7/13/2018 8:50:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: CJS
Chloride	650	30	mg/Kg	20	7/18/2018 2:55:13 PM	39266
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst	:: TOM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	7/20/2018 11:51:33 AM	39230
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/20/2018 11:51:33 AM	39230
Surr: DNOP	107	70-130	%Rec	1	7/20/2018 11:51:33 AM	39230
EPA METHOD 8015D: GASOLINE RANGE					Analyst	:: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/16/2018 7:47:03 PM	39201
Surr: BFB	87.9	15-316	%Rec	1	7/16/2018 7:47:03 PM	39201

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 7/24/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L3-2'

 Project:
 Marbob State
 Collection Date: 7/10/2018 3:07:00 PM

 Lab ID:
 1807714-006
 Matrix: SOIL
 Received Date: 7/13/2018 8:50:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: CJS
Chloride	480	30	mg/Kg	20	7/18/2018 3:07:38 PM	39266
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst	:: Irm
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	7/17/2018 7:11:32 PM	39230
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/17/2018 7:11:32 PM	39230
Surr: DNOP	75.5	70-130	%Rec	1	7/17/2018 7:11:32 PM	39230
EPA METHOD 8015D: GASOLINE RANGE					Analyst	:: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/16/2018 8:10:22 PM	39201
Surr: BFB	89.7	15-316	%Rec	1	7/16/2018 8:10:22 PM	39201

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 6 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1807714**

24-Jul-18

Client: Souder, Miller & Associates

Project: Marbob State

Sample ID MB-39266 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 39266 RunNo: 52830

Prep Date: 7/18/2018 Analysis Date: 7/18/2018 SeqNo: 1735435 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID LCS-39266 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 39266 RunNo: 52830

Prep Date: 7/18/2018 Analysis Date: 7/18/2018 SeqNo: 1735436 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 95.9 90 110

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

1807714

WO#:

Page 8 of 9

24-Jul-18

Client: Souder, Miller & Associates

Project: Marbob State

Sample ID 1807714-001AMS

Sample ID MB-39230 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 39230 RunNo: 52741 Prep Date: 7/16/2018 Analysis Date: 7/17/2018 SeqNo: 1732990 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 10 ND Motor Oil Range Organics (MRO) ND 50 70 Surr: DNOP 11 10.00 105 130

TestCode: EPA Method 8015M/D: Diesel Range Organics SampType: MS Client ID: L1-1' Batch ID: 39230 RunNo: 52741 Prep Date: 7/16/2018 Analysis Date: 7/17/2018 SeqNo: 1733532 Units: mg/Kg Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Diesel Range Organics (DRO) 10 48 49.85 96.7 62 120 Surr: DNOP 4.7 4.985 94.7 70 130

Sample ID 1807714-001AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: L1-1' Batch ID: 39230 RunNo: 52741 Prep Date: 7/16/2018 Analysis Date: 7/17/2018 SeqNo: 1733533 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 53 10 50.05 107 62 10.1 20 120 Surr: DNOP 5.3 5.005 106 70 130 0 0

Sample ID LCS-39312 TestCode: EPA Method 8015M/D: Diesel Range Organics SampType: LCS Client ID: LCSS Batch ID: 39312 RunNo: 52847 Prep Date: 7/19/2018 Analysis Date: 7/20/2018 SeqNo: 1738036 Units: %Rec SPK value SPK Ref Val %RPD **RPDLimit** Analyte Result POL %REC LowLimit HighLimit Qual Surr: DNOP 4.1 5.000 82.5 70 130

Sample ID MB-39312 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: Batch ID: 39312 PBS RunNo: 52847 Prep Date: 7/19/2018 Analysis Date: 7/20/2018 SeqNo: 1738037 Units: %Rec %RPD **RPDLimit** Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit Qual

70 Surr: DNOP 9.5 10.00 95.4 130

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- POL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1807714**

24-Jul-18

Client: Souder, Miller & Associates

Project: Marbob State

Sample ID MB-39201 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 39201 RunNo: 52729

Prep Date: 7/13/2018 Analysis Date: 7/16/2018 SeqNo: 1731622 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 910 1000 91.0 15 316

Sample ID LCS-39201 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 39201 RunNo: 52729

980

Prep Date: 7/13/2018 Analysis Date: 7/16/2018 SeqNo: 1731623 Units: mg/Kg

1000

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 27 5.0 25.00 0 108 75.9 131

98.5

15

316

Qualifiers:

Surr: BFB

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Released to Imaging: 11/5/2025 11:02:30 AM

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	SMA-CARLSBAD	Work Order Number: 1	807714		RcptNo:	1
Received By:	Isaiah Ortiz	7/13/2018 8:50:00 AM		ICH	-	
Completed By:	Ashley Gallegos	7/13/2018 11:01:39 AM		A		
Reviewed By:	AT 07/13/18	Lai	oeled	p4;	To	7 (3 18
Chain of Cus	tody					į t
1. Is Chain of C	ustody complete?	Y	es 🗸	No 🗌	Not Present	
2. How was the	sample delivered?	<u>C</u>	ourier			
Log In 3. Was an attern	npt made to cool the samples?	Y	es 🗸	No 🗆	na 🗆	
		·	<u> </u>			
4. Were all samp	oles received at a temperature	of >0° C to 6.0°C	es 🗹	No 🗌	NA 🗆	
5. Sample(s) in p	proper container(s)?	Y	es 🗸	No 🗌		
6. Sufficient sam	ple volume for indicated test(s)? Ye	es 🗸	No 🗌		
7. Are samples (except VOA and ONG) properl	y preserved? Ye	es 🗸	No 🗌		
8. Was preserva	tive added to bottles?	Ye	es 🗌	No 🗹	NA 🗌	
9. VOA vials hav	e zero headspace?	Υe	es 🗆	No 🗆	No VOA Vials 🗹	
10. Were any san	nple containers received broke	n? Yo	es 🗆	No 🗹	# of preserved	
	ork match bottle labels? ancies on chain of custody)	Ye	es 🗹	No 🗆	bottles checked for pH:	>12 unless noted)
	correctly identified on Chain of	Custody? Ye	es 🗸	No □ ↓	Adjusted?	
3. Is it clear what	analyses were requested?	Υє	es 🗹	No 🗆	7/13	3 (8
	ng times able to be met? ustomer for authorization.)	Ye	es 🗸	No 🗆	Checked by:	
Special Handli	ing (if applicable)					
•••	tified of all discrepancies with t	his order? Y	es 🗌	No 🗌	NA 🗹	
Person	Notified:	Date:		Average		
By Who	m:	Via: e	eMail 🔲 Pho	one 🗌 Fax	In Person	
Regardi	ng:	CEEC 9009900000000 3	**************************************	WWW.hare-a-Markaskek.e-		
Client In	estructions:	MPANA APPANIANANANAN	***************************************			
16. Additional rer	marks:					
17. <u>Cooler Infori</u>	mation_					
Cooler No	Temp °C Condition Se		Date S	ligned By		•
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Chain-of-Custody Record	Addr		#:	г Fах	Packa dard	itatior AP	EDD (Type)	Time	2.05	2:15	2,20	2:45	3:00	3:01						j.		190	If necessary, samples sulfnitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report
Chain-o	Mailing Address:		Phone #:	email or Fax#	QA/QC Package: □ Standard	Accreditation	EDD	Date	7/10/18	.]				- ₽						3	. ie 22	18	_
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

August 03, 2018

Austin Weyant Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-7040

FAX

RE: Marbob State 1 OrderNo.: 1807E45

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 9 sample(s) on 7/26/2018 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **1807E45**Date Reported: **8/3/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BH 4-2

 Project:
 Marbob State 1
 Collection Date: 7/20/2018 11:00:00 AM

 Lab ID:
 1807E45-001
 Matrix: SOIL
 Received Date: 7/26/2018 11:00:00 AM

Analyses	Result	PQL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH					Analyst	: CLP
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1	8/1/2018	39495
EPA METHOD 300.0: ANIONS					Analyst	: JRR
Chloride	980	30	mg/Kg	20	8/1/2018 8:35:15 PM	39521
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	7/31/2018 4:08:17 PM	39455
Toluene	ND	0.047	mg/Kg	1	7/31/2018 4:08:17 PM	39455
Ethylbenzene	ND	0.047	mg/Kg	1	7/31/2018 4:08:17 PM	39455
Xylenes, Total	ND	0.094	mg/Kg	1	7/31/2018 4:08:17 PM	39455
Surr: 4-Bromofluorobenzene	106	80-120	%Rec	1	7/31/2018 4:08:17 PM	39455

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 12
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1807E45

Date Reported: 8/3/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BH 4-4

 Project:
 Marbob State 1
 Collection Date: 7/20/2018 11:10:00 AM

 Lab ID:
 1807E45-002
 Matrix: SOIL
 Received Date: 7/26/2018 11:00:00 AM

Analyses	Result	PQL Q	ual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: JRR
Chloride	2700	150	mg/Kg	100 8/2/2018 4:39:15 PM	39521

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

Qualifiers: * Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits Page 2 of 12

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Lab Order **1807E45**Date Reported: **8/3/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BH 4-6

 Project:
 Marbob State 1
 Collection Date: 7/20/2018 11:20:00 AM

 Lab ID:
 1807E45-003
 Matrix: SOIL
 Received Date: 7/26/2018 11:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	1	Batch
EPA METHOD 418.1: TPH					Д	nalyst:	CLP
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1	8/1/2018		39495
EPA METHOD 300.0: ANIONS					Д	nalyst:	JRR
Chloride	2000	75	mg/Kg	50	8/2/2018 4:51:40) PM	39521

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 12
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical ReportLab Order **1807E45**

Date Reported: 8/3/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BH 4-3

 Project:
 Marbob State 1
 Collection Date: 7/20/2018 11:30:00 AM

 Lab ID:
 1807E45-004
 Matrix: SOIL
 Received Date: 7/26/2018 11:00:00 AM

Analyses	Result	PQL Qu	ial Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: JRR
Chloride	1500	75	mg/Kg	50	8/2/2018 5:04:05 PM	39521

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

Qualifiers: * Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits Page 4 of 12

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Lab Order 1807E45 Date Reported: 8/3/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BH 3-4

Project: Marbob State 1 Collection Date: 7/20/2018 11:40:00 AM Lab ID: 1807E45-005 Matrix: SOIL Received Date: 7/26/2018 11:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	l	Batch
EPA METHOD 418.1: TPH					A	Analyst:	CLP
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1	8/1/2018		39495
EPA METHOD 300.0: ANIONS					A	Analyst:	JRR
Chloride	2000	75	mg/Kg	50	8/2/2018 5:16:3	0 PM	39521

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

Qualifiers: Value exceeds Maximum Contaminant Level. D

> Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Sample Diluted Due to Matrix

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Е Value above quantitation range

Analyte detected below quantitation limits Page 5 of 12 J

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

Analytical Report Lab Order 1807E45

Date Reported: 8/3/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BH 3-6

 Project:
 Marbob State 1
 Collection Date: 7/20/2018 11:50:00 AM

 Lab ID:
 1807E45-006
 Matrix: SOIL
 Received Date: 7/26/2018 11:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	st: JRR
Chloride	1700	75	mg/Kg	50	8/2/2018 5:28:54 PM	39521

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

Qualifiers: * Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits Page 6 of 12

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Lab Order **1807E45**Date Reported: **8/3/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BH 3-8

 Project:
 Marbob State 1
 Collection Date: 7/20/2018 12:00:00 PM

 Lab ID:
 1807E45-007
 Matrix: SOIL
 Received Date: 7/26/2018 11:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	l	Batch
EPA METHOD 418.1: TPH					A	Analyst:	CLP
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1	8/1/2018		39495
EPA METHOD 300.0: ANIONS					A	Analyst:	JRR
Chloride	1100	30	mg/Kg	20	8/1/2018 10:39:	21 PM	39521

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

Qualifiers: *

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 7 of 12
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order **1807E45**Date Reported: **8/3/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BH 2-1.5

 Project:
 Marbob State 1
 Collection Date: 7/20/2018 12:10:00 PM

 Lab ID:
 1807E45-008
 Matrix: SOIL
 Received Date: 7/26/2018 11:00:00 AM

Analyses	Result	PQL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH					Analyst	:: CLP
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1	8/1/2018	39495
EPA METHOD 300.0: ANIONS					Analyst	: JRR
Chloride	920	30	mg/Kg	20	8/1/2018 10:51:45 PM	39521
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	7/31/2018 4:31:44 PM	39455
Toluene	ND	0.046	mg/Kg	1	7/31/2018 4:31:44 PM	39455
Ethylbenzene	ND	0.046	mg/Kg	1	7/31/2018 4:31:44 PM	39455
Xylenes, Total	ND	0.092	mg/Kg	1	7/31/2018 4:31:44 PM	39455
Surr: 4-Bromofluorobenzene	105	80-120	%Rec	1	7/31/2018 4:31:44 PM	39455

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 8 of 12
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order **1807E45**Date Reported: **8/3/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BH 2-6

 Project:
 Marbob State 1
 Collection Date: 7/20/2018 12:10:00 PM

 Lab ID:
 1807E45-009
 Matrix: SOIL
 Received Date: 7/26/2018 11:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed		Batch
EPA METHOD 418.1: TPH					А	nalyst:	CLP
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1	8/1/2018		39495
EPA METHOD 300.0: ANIONS					A	nalyst:	JRR
Chloride	780	30	mg/Kg	20	8/1/2018 11:04:0	9 PM	39521

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 9 of 12
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: **1807E45**

03-Aug-18

Client: Souder, Miller & Associates

Project: Marbob State 1

Sample ID MB-39521 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **39521** RunNo: **53124**

Prep Date: 7/31/2018 Analysis Date: 8/1/2018 SeqNo: 1748764 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID LCS-39521 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 39521 RunNo: 53124

Prep Date: 7/31/2018 Analysis Date: 8/1/2018 SeqNo: 1748765 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 94.3 90 110

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Released to Imaging: 11/5/2025 11:02:30 AM

Page 10 of 12

Hall Environmental Analysis Laboratory, Inc.

WO#: **1807E45**

03-Aug-18

Client: Souder, Miller & Associates

Project: Marbob State 1

Sample ID MB-39495 SampType: MBLK TestCode: EPA Method 418.1: TPH

Client ID: PBS Batch ID: 39495 RunNo: 53125

Prep Date: 7/31/2018 Analysis Date: 8/1/2018 SeqNo: 1747780 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Petroleum Hydrocarbons, TR ND 20

Sample ID LCS-39495 SampType: LCS TestCode: EPA Method 418.1: TPH

Client ID: LCSS Batch ID: 39495 RunNo: 53125

Prep Date: 7/31/2018 Analysis Date: 8/1/2018 SeqNo: 1747781 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Petroleum Hydrocarbons, TR 130 20 100.0 0 127 84.7 129

Sample ID LCSD-39495 SampType: LCSD TestCode: EPA Method 418.1: TPH

Client ID: LCSS02 Batch ID: 39495 RunNo: 53125

Prep Date: 7/31/2018 Analysis Date: 8/1/2018 SeqNo: 1747782 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Petroleum Hydrocarbons, TR 120 20 100.0 0 124 84.7 129 2.05 20

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Released to Imaging: 11/5/2025 11:02:30 AM

Page 11 of 12

Hall Environmental Analysis Laboratory, Inc.

WO#: **1807E45**

03-Aug-18

Client: Souder, Miller & Associates

Project: Marbob State 1

Sample ID MB-39455 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 39455 RunNo: 53075

Prep Date: **7/27/2018** Analysis Date: **7/30/2018** SeqNo: **1745932** Units: **mg/Kg**

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Benzene
 ND
 0.025

 Toluene
 ND
 0.050

 Ethylbenzene
 ND
 0.050

 Xylenes, Total
 ND
 0.10

Surr: 4-Bromofluorobenzene 1.0 1.000 104 80 120

Sample ID LCS-39455	SampT	ype: LC	s	TestCode: EPA Method 8021B: Volatiles										
Client ID: LCSS	Batcl	h ID: 39	455	F										
Prep Date: 7/27/2018	Analysis D	Date: 7/	30/2018	S	SeqNo: 1	745933	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene	0.93	0.025	1.000	0	93.5	77.3	128							
Toluene	0.97	0.050	1.000	0	96.5	79.2	125							
Ethylbenzene	0.95	0.050	1.000	0	94.8	80.7	127							
Xylenes, Total	2.9	0.10	3.000	0	96.7	81.6	129							
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120							

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Released to Imaging: 11/5/2025 11:02:30 AM



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

LABORATORY

Website: www.hallenvironmental.com

Client Name:	SMA-CARLSBAD	Work Order Nun	nber: 1807E45		RcptNo:	1
				- al-	_	
Received By:	Isaiah Ortiz	7/26/2018 11:00:0	0 AM		-	
Completed By:	Ashley Gallegos	7/26/2018 5:53:13	PM	A		
Reviewed By:	LeohBan	2/27/18		•		•
LB. EN	M 7/30/18					
1. Is Chain of C	ustody complete?		Yes 🗹	No 🗌	Not Present	
2. How was the	sample delivered?		<u>Courier</u>			
<u>Log In</u>						
	pt made to cool the samp	oles?	Yes 🗸	No 🗌	NA 🗆	
4 "				Na [T]		
4. Were all sam	oles received at a tempera	ature of >0° C to 6.0°C	Yes 🗹	No 🗀	NA L	
5. Sample(s) in	proper container(s)?		Yes 🗸	No 🗆		
			_		•	
	ple volume for indicated t		Yes 🗹	No ∐		
	except VOA and ONG) pr	operly preserved?	Yes 🗹	No 🗆		
8. Was preserva	tive added to bottles?		Yes 🗌	No 🔽	NA 🗀	
9. VOA vials hav	e zero headspace?		Yes 🗌	No 🗆	No VOA Vials 🗹	/
10. Were any sar	nple containers received l	proken?	Yes	No 🗹 🛚	# of preserved	119
			_		bottles checked	713
	ork match bottle labels? ancies on chain of custody	A	Yes 🗹	No 🗀	for pH:	12 unless noted)
	correctly identified on Cha	•	Yes 🗹	No 🗆	Adjusted?	12 dilloso fiotody
	t analyses were requested		Yes 🗹	No 🗆		
	ng times able to be met?		Yes 🗹	No 🗆	Checked by:	
(If no, notify co	ustomer for authorization.	•				
Special Handl	ing (if applicable)			•		
15. Was client no	tified of all discrepancies	with this order?	Yes 🗸	No 🗆	NA 🗆	-
Person	Notified: Austin W	Date):	7/27/2018		
By Who	om: Erin Melendr	ez Via:	✓ eMail ☐ F	hone 🗌 Fax	☐ In Person	
Regardi	200000000000000000000000000000000000000	es between COC and lab	els			
Client In	nstructions: Use times lis	ted on COCPer Melody				
16. Additional re	marks:					
17. Cooler Infor	mation					
Cooler No		Seal Intact Seal No	Seal Date	Signed By		
[1	2.2 Good	Yes				

Page 1 of 1

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Time:	Rush	/ /	1696			ger:)		3.2	Preservative Type			·					·						S COUTY	scredited laboratories
Turn-Around Time	 □ Standard	Project Name:	1 6	Project #:		Project Manager:	,	Sampler:	Sample Temperature:	Container Type and #	402										5	7	Received by:	Received by:	contracted to other ad
Chain-of-Custody Record	Col bud						□ Level 4 (Full Validation)			Sample Request ID	BH1-2	BH 4-U	BH 4-6	BH 4-3	13H 3-4	13-5-18	13H3-8	BH2-1.5	BH 2-6				: '		r, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report
of-Cus	11/4							Other		Matrix	1.05	-		-			-	6					Relinquished by:	Relinquehed by	samples su 6 mitte
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

August 06, 2018

Austin Weyant Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-7040

FAX

RE: Marbob State 1 OrderNo.: 1807E44

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 9 sample(s) on 7/26/2018 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order: **1807E44**Date Reported: **8/6/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Lab Order: 1807E44

Project: Marbob State 1

Lab ID: 1807E44-001 **Collection Date:** 7/20/2018 9:00:00 AM

Client Sample ID: SW1 Matrix: SOIL

Analyses Result PQL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: JRR

Chloride 820 30 mg/Kg 20 7/30/2018 6:10:37 PM 39467

Lab ID: 1807E44-002 **Collection Date:** 7/20/2018 9:10:00 AM

Client Sample ID: SW2 Matrix: SOIL

Analyses Result PQL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS

Chloride

5800

300

mg/Kg

200

8/1/2018 11:04:27 AM

39467

Lab ID: 1807E44-003 Collection Date: 7/20/2018 9:20:00 AM

Client Sample ID: SW3 Matrix: SOIL

Analyses Result PQL Qual Units DF Date Analyzed Batch ID

 EPA METHOD 300.0: ANIONS
 Analyst: JRR

 Chloride
 370
 30
 mg/Kg
 20
 7/30/2018 6:35:26 PM
 39467

Client Sample ID: SW4 Matrix: SOIL

Analyses Result PQL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: JRR

Chloride 420 30 mg/Kg 20 8/1/2018 7:08:22 PM 39521

Lab ID: 1807E44-005 **Collection Date:** 7/20/2018 9:40:00 AM

Client Sample ID: SW5 Matrix: SOIL

Analyses Result PQL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: JRR

Chloride 230 30 mg/Kg 20 8/1/2018 7:45:36 PM 39521

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

Qualifiers: * Value exceeds Maximum Contaminant Level.

1807E44-004

Lab ID:

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

B Analyte detected in the associated Method Blank

Collection Date: 7/20/2018 9:30:00 AM

E Value above quantitation range

J Analyte detected below quantitation limits Page 1 of 8

P Sample pH Not In Range

RL Reporting Detection Limit

Lab Order: 1807E44 Date Reported: 8/6/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Lab Order: 1807E44

Project: Marbob State 1

Lab ID: 1807E44-007 **Collection Date:** 7/20/2018 10:00:00 AM

Client Sample ID: BH1-2 Matrix: SOIL

PQL Qual Units DF Date Analyzed **Analyses** Result **Batch ID EPA METHOD 300.0: ANIONS** Analyst: JRR Chloride 650 30 8/1/2018 7:58:00 PM 39521 mg/Kg **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM Diesel Range Organics (DRO) ND 8/3/2018 10:55:39 AM 39509 9.8 mg/Kg Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 8/3/2018 10:55:39 AM 39509 Surr: DNOP 94.1 50.6-138 %Rec 8/3/2018 10:55:39 AM 39509 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 4.6 mg/Kg 8/1/2018 9:58:23 AM 39506 1 Surr: BFB 94.0 15-316 %Rec 8/1/2018 9:58:23 AM 39506 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.023 8/1/2018 9:58:23 AM 39506 mg/Kg 1 Toluene ND 0.046 mg/Kg 8/1/2018 9:58:23 AM 39506 Ethylbenzene ND 0.046 mg/Kg 8/1/2018 9:58:23 AM 39506 Xylenes, Total ND 0.092 mg/Kg 8/1/2018 9:58:23 AM 39506 Surr: 4-Bromofluorobenzene 102 80-120 %Rec 8/1/2018 9:58:23 AM 39506

Collection Date: 7/20/2018 10:10:00 AM Lab ID: 1807E44-008

Client Sample ID: BH1-4 Matrix: SOIL

Analyses Result PQL Qual Units DF Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: JRR Chloride 1300 75 8/2/2018 4:02:01 PM 39521 mg/Kg

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits

P Sample pH Not In Range Reporting Detection Limit

RL

Page 2 of 8

Lab Order: **1807E44**Date Reported: **8/6/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Lab Order: 1807E44

Project: Marbob State 1

Lab ID: 1807E44-009 **Collection Date:** 7/20/2018 10:20:00 AM

Client Sample ID: BH1-6 Matrix: SOIL

Chefit bumple 1D. Dill o			Matrix	. 50	/IL	
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Ana	alyst: JRR
Chloride	1100	30	mg/Kg	20	8/1/2018 8:22:50 P	M 39521
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Ana	lyst: TOM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	8/3/2018 11:20:16	AM 39509
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/3/2018 11:20:16	AM 39509
Surr: DNOP	97.1	50.6-138	%Rec	1	8/3/2018 11:20:16	AM 39509
EPA METHOD 8015D: GASOLINE RANGE					Ana	alyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/31/2018 3:44:50	PM 39455
Surr: BFB	93.1	15-316	%Rec	1	7/31/2018 3:44:50	PM 39455
EPA METHOD 8021B: VOLATILES					Ana	alyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.095	mg/Kg	1	7/31/2018 3:44:50	PM 39455
Benzene	ND	0.024	mg/Kg	1	7/31/2018 3:44:50	PM 39455
Toluene	ND	0.047	mg/Kg	1	7/31/2018 3:44:50	PM 39455
Ethylbenzene	ND	0.047	mg/Kg	1	7/31/2018 3:44:50	PM 39455
Xylenes, Total	ND	0.095	mg/Kg	1	7/31/2018 3:44:50	PM 39455
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	7/31/2018 3:44:50	PM 39455

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits

Page 3 of 8

- P Sample pH Not In Range
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: 1807E44

06-Aug-18

Client: Souder, Miller & Associates

Project: Marbob State 1

Sample ID MB-39467 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: 39467 RunNo: 53064

Prep Date: 7/28/2018 Analysis Date: 7/29/2018 SeqNo: 1745579 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Chloride ND 1.5

Sample ID LCS-39467 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 39467 RunNo: 53064

Prep Date: 7/28/2018 Analysis Date: 7/29/2018 SeqNo: 1745580 Units: mg/Kg

SPK value SPK Ref Val **RPDLimit** Analyte Result PQL %REC LowLimit HighLimit %RPD Qual

Chloride 15 1.5 15.00 0 97.3 110

Sample ID MB-39521 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: 39521 RunNo: 53124

Prep Date: Analysis Date: 8/1/2018 7/31/2018 SeqNo: 1748764 Units: mg/Kg

Result **PQL** SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Analyte HighLimit Qual

Chloride ND 1.5

Sample ID LCS-39521 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: Batch ID: 39521 RunNo: 53124 **LCSS**

Units: mg/Kg Prep Date: 7/31/2018 Analysis Date: 8/1/2018 SeqNo: 1748765

Analyte Result SPK value SPK Ref Val %REC I owl imit HighLimit %RPD **RPDLimit** Qual

Chloride 14 1.5 15.00 0 94.3 90 110

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- POL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- В
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Analyte detected in the associated Method Blank

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1807E44

Page 5 of 8

06-Aug-18

Client: Souder, Miller & Associates

Project: Marbob State 1

Sample ID MB-39489 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **PBS** Batch ID: 39489 RunNo: 53063

Prep Date: 7/30/2018 Analysis Date: 8/1/2018 SeqNo: 1747164 Units: %Rec

Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Surr: DNOP 50.6 8.5 10.00 85.0 138

Sample ID LCS-39489 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 39489 RunNo: 53063

Prep Date: 7/30/2018 Analysis Date: 8/1/2018 SeqNo: 1747165 Units: %Rec

SPK value SPK Ref Val %REC Analyte Result LowLimit HighLimit %RPD **RPDLimit** Qual

Surr: DNOP 4.0 5.000 796 50.6 138

Sample ID MB-39509 TestCode: EPA Method 8015M/D: Diesel Range Organics SampType: MBLK Client ID: **PBS** Batch ID: 39509 RunNo: 53063 Analysis Date: 8/1/2018 Prep Date: 7/31/2018 SeqNo: 1747957 Units: mg/Kg **PQL** SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit HighLimit Qual Diesel Range Organics (DRO) ND 10

ND Motor Oil Range Organics (MRO) 50 Surr: DNOP 7.6

Sample ID LCS-39509

10.00 75.9 50.6 138

SampType: LCS

Client ID: LCSS Batch ID: 39509 RunNo: 53063

Analysis Date: 8/1/2018 SeqNo: 1747958 Prep Date: 7/31/2018 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQI LowLimit HighLimit Qual Diesel Range Organics (DRO) 48 10 50.00 0 96.9 70 130

Surr: DNOP 5.000 3.7 73.3 50.6 138

Sample ID LCS-39543 TestCode: EPA Method 8015M/D: Diesel Range Organics SampType: LCS

Batch ID: 39543 RunNo: 53150 Client ID: LCSS

Prep Date: 8/1/2018 Analysis Date: 8/3/2018 SeqNo: 1749789 Units: %Rec

%RPD **PQL** SPK value SPK Ref Val %REC HighLimit **RPDLimit** Analyte Result LowLimit Qual

Surr: DNOP 4.4 5.000 88.4 50.6 138

Sample ID MB-39543 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 39543 RunNo: 53150

Prep Date: 8/1/2018 Analysis Date: 8/3/2018 SeqNo: 1749791 Units: %Rec

Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual PQI

Surr: DNOP 9.6 10.00 96.2 50.6 138

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

TestCode: EPA Method 8015M/D: Diesel Range Organics

Е Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: **1807E44**

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06-Aug-18

Client: Souder, Miller & Associates

Project: Marbob State 1

Sample ID MB-39455 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 39455 RunNo: 53075

Prep Date: 7/27/2018 Analysis Date: 7/30/2018 SeqNo: 1745897 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 940 1000 94.1 15 316

Sample ID LCS-39455 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 39455 RunNo: 53075

Prep Date: 7/27/2018 Analysis Date: 7/30/2018 SeqNo: 1745898 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 5.0 25.00 0 114 75.9 131 1000 1100 108 316 Surr: BFB 15

Sample ID MB-39506 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 39506 RunNo: 53110

Prep Date: 7/31/2018 Analysis Date: 8/1/2018 SeqNo: 1748282 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 950 1000 94.5 15 316

Sample ID LCS-39506 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 39506 RunNo: 53110

Prep Date: 7/31/2018 Analysis Date: 8/1/2018 SeqNo: 1748283 Units: mg/Kg

Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 27 5.0 25.00 109 75.9 131

 Surr: BFB
 1000
 1000
 103
 15
 316

Sample ID 1807E44-007AMS SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: **BH1-2** Batch ID: **39506** RunNo: **53110**

Prep Date: 7/31/2018 Analysis Date: 8/1/2018 SeqNo: 1748285 Units: mg/Kg

SPK value SPK Ref Val %REC Analyte Result **PQL** LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 77.8 33 5.0 24.95 0 133 128 S Surr: BFB 1000 998.0 103 15 316

Sample ID 1807E44-007AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: **BH1-2** Batch ID: **39506** RunNo: **53110**

Prep Date: 7/31/2018 Analysis Date: 8/1/2018 SeqNo: 1748286 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: **1807E44**

06-Aug-18

Client: Souder, Miller & Associates

Project: Marbob State 1

Sample ID 1807E44-007AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: **BH1-2** Batch ID: **39506** RunNo: **53110**

Prep Date: 7/31/2018 Analysis Date: 8/1/2018 SeqNo: 1748286 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	4.8	24.18	0	125	77.8	128	8.96	20	
Surr: BFB	1000		967.1		105	15	316	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 7 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#: **1807E44**

Page 8 of 8

06-Aug-18

Client: Souder, Miller & Associates

Project: Marbob State 1

Sample ID MB-39455	SampT	ype: ME	BLK	TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch	1D: 39	455	R	RunNo: 5	3075					
Prep Date: 7/27/2018	Analysis D	ate: 7/	30/2018	SeqNo: 1745932			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Methyl tert-butyl ether (MTBE)	ND	0.10									
Benzene	ND	0.025									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10									
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120				
Sample ID LCS-39455	SampT	SampType: LCS TestCode: EPA Method 8021B: Volatiles									

Sample ID LCS-39455	Sampl	Гуре: LC	S	Tes	tCode: El	PA Method	ethod 8021B: Volatiles					
Client ID: LCSS	Batcl	h ID: 39	455	RunNo: 53075								
Prep Date: 7/27/2018	Analysis Date: 7/30/2018			8	SeqNo: 1	745933	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Methyl tert-butyl ether (MTBE)	0.88	0.10	1.000	0	87.7	70.1	121					
Benzene	0.93	0.025	1.000	0	93.5	77.3	128					
Toluene	0.97	0.050	1.000	0	96.5	79.2	125					
Ethylbenzene	0.95	0.050	1.000	0	94.8	80.7	127					
Xylenes, Total	2.9	0.10	3.000	0	96.7	81.6	129					
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120					

Sample ID MB-39506	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batch	n ID: 39	506	F	RunNo: 5	3110				
Prep Date: 7/31/2018	Analysis Date: 8/1/2018			SeqNo: 1748305			Units: mg/k			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		105	80	120			

Sample ID LCS-39506	SampT	ype: LC	s	Tes							
Client ID: LCSS	Batch ID: 39506			F	RunNo: 5						
Prep Date: 7/31/2018	Analysis D	Date: 8/	1/2018	9	SeqNo: 1	748306	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.91	0.025	1.000	0	91.4	77.3	128				
Toluene	0.95	0.050	1.000	0	94.7	79.2	125				
Ethylbenzene	0.93	0.050	1.000	0	93.1	80.7	127				
Xylenes, Total	2.9	0.10	3.000	0	95.0	81.6	129				
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120				

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

w Sample container temperature is out or inine as spec



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

Sample Log-In Check List

С	lient Name:	SMA-CAR	LSBAD	Work	Order Num	ber: 180	7E44			RcptN-	o: 1
Re	eceived By:	isaiah Or	rtiz	7/26/20	18 11:00:00	O AM		エ	<u>, </u>		
Co	mpleted By:	Ashley G	allegos	7/26/20	18 5:41:44	PM		A	⊋		
Re	eviewed By:	W		7/2:				J (0		
	LB:FX	11 176	7× 6/3	•							
Ch	ain of Cus	tody	20 718								
	Is Chain of C		plete?			Yes	✓	No		Not Present	
	How was the					Cou				_	
	o g In Was an atten	npt made to	cool the sampl	es?		Yes	✓	No		NA 🗆	
4.	Were all samp	oles receive	d at a temperat	cure of >0°C t	o 6.0°C	Yes	✓	No		na 🗆	
5.	Sample(s) in	proper conta	ainer(s)?			Yes	✓	No			
6	Sufficient sam	ple volume	for indicated te	st(s)?		Yes	✓	No			
		•	and ONG) pro	. ,	d?	Yes	✓	No			
	Was preserva	-	• •			Yes		No	Y	NA 🗆	
9.	VOA vials hav	e zero head	space?			Yes		No		No VOA Vials ✓	
10.	Were any san	nple contain	ers received br	oken?		Yes		No	✓	# = = = = = = = = = = = = = = = = = = =	ر کور
									_	# of preserved bottles checked	
	Does paperwo Note discrepa		ottle labels? ain of custody)			Yes	✓	No		for pH:	or 12 unless noted)
			ntified on Chain			Yes	V	No		Adjustes?	
			ere requested			Yes	✓	No			
	Vere all holdii	_				Yes	\checkmark	No		Checked by:	
,	it no, notity ci	ustomer for a	authorization.)								
Spe	cial Handi	ing (if ap	plicable)								
15.	Was client no	tified of all d	liscrepancies w	rith this order?		Yes	✓	No		na 🗆	
	Person	Notified:	Austin W		Date	:		7/27/2	2018		
	By Who	m:	Erin Melendre	Z	Via:	v eM	ail 🗌	Phone [] Fax	☐ In Person	
	Regardi		Missing samp								
	Client Ir	structions:	Remove samp	ole from COC.	-Per Melod	ly					
16.	Additional rer	marks:									
17.	Cooler Infor	<u>mation</u>									
	Cooler No			Seal Intact	Seal No	Seal D	ate	Signed	Ву		
	[1	2.2	Good	Yes	u ac acca					l	
					•						
											

HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	BTEX + MTBE + TPH (Gas only) TPH 8015B (GRO / DRO / MRO) TPH (Method 504.1) EDB (Method 504.1) RCRA 8 Metals Anions (FC) NO ₂ , PO ₄ , SO ₄) 8081 Pesticides / 8082 PCB's 8260B (VOA) 8270 (Semi-VOA)	X X X X X X X X X X X X X X X X X X X	A do ny sub-contracted data will be
Turn-Around Time: □ Standard Project Name: Strk Strk The the the project #:	Project Manager: Sampler: Con toe: Container Preservative HEAL No Type and # Type Type and # Type	100-00-00-00-00-00-00-00-00-00-00-00-00-	
Client: Chain-of-Custody Record Client: Called Mailing Address: Phone #:	Cother Matrix Sample Request ID	420 5w2 420 5w2 430 5w2 440 5w2 640 5w2 641 2 1000 8H1 H	Date: Time: Relinquished by: Received by: Re



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

August 06, 2018

Austin Weyant Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-7040

FAX

RE: Marbob SWD OrderNo.: 1807E43

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 12 sample(s) on 7/26/2018 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order: **1807E43**Date Reported: **8/6/2018**

Analyst: MRA

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Lab Order: 1807E43

Project: Marbob SWD

Lab ID: 1807E43-001 **Collection Date:** 7/24/2018 11:00:00 AM

Client Sample ID: SW6 Matrix: SOIL

Analyses Result PQL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS

Chloride 800 30 mg/Kg 20 7/29/2018 3:47:27 PM 39466

Lab ID: 1807E43-002 **Collection Date:** 7/24/2018 11:05:00 AM

Client Sample ID: SW7 Matrix: SOIL

Analyses Result PQL Qual Units DF Date Analyzed Batch ID

 EPA METHOD 300.0: ANIONS
 Analyst: MRA

 Chloride
 ND
 30
 mg/Kg
 20
 7/29/2018 3:59:50 PM
 39466

Lab ID: 1807E43-003 **Collection Date:** 7/24/2018 11:10:00 AM

Client Sample ID: SW8 Matrix: SOIL

Analyses Result PQL Qual Units DF Date Analyzed Batch ID

 EPA METHOD 300.0: ANIONS
 Analyst: MRA

 Chloride
 ND
 30
 mg/Kg
 20
 7/29/2018 7:43:13 PM
 39467

Lab ID: 1807E43-004 **Collection Date:** 7/24/2018 11:15:00 AM

Client Sample ID: SW9 Matrix: SOIL

Analyses Result PQL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: MRA

Chloride ND 30 mg/Kg 20 7/29/2018 8:20:27 PM 39467

Lab ID: 1807E43-005 **Collection Date:** 7/24/2018 11:30:00 AM

Client Sample ID: SW10 Matrix: SOIL

Analyses Result PQL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: JRR

Chloride 860 30 mg/Kg 20 7/30/2018 4:31:20 PM 39467

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

Qualifiers: * Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits Page 1 of 8

P Sample pH Not In Range

RL Reporting Detection Limit

Lab Order: **1807E43**Date Reported: **8/6/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Lab Order: 1807E43

Project: Marbob SWD

Lab ID: 1807E43-006 **Collection Date:** 7/24/2018 11:45:00 AM

Client Sample ID: SW11 Matrix: SOIL

Analyses Result PQL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: JRR

Chloride 73 30 mg/Kg 20 7/30/2018 4:43:44 PM 39467

Lab ID: 1807E43-007 **Collection Date:** 7/24/2018 12:00:00 PM

Client Sample ID: SW12 Matrix: SOIL

Analyses Result PQL Qual Units DF Date Analyzed Batch ID

 EPA METHOD 300.0: ANIONS
 Analyst: JRR

 Chloride
 ND
 30
 mg/Kg
 20
 7/30/2018 4:56:09 PM
 39467

Lab ID: 1807E43-008 Collection Date: 7/24/2018 12:15:00 PM

Client Sample ID: SW13 Matrix: SOIL

Analyses Result PQL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS

Analyst: JRR

Chloride ND 30 mg/Kg 20 7/30/2018 5:08:33 PM 39467

Lab ID: 1807E43-009 **Collection Date:** 7/24/2018 12:30:00 PM

Client Sample ID: SW14 Matrix: SOIL

Analyses Result PQL Qual Units DF Date Analyzed Batch ID

 EPA METHOD 300.0: ANIONS
 Analyst: JRR

 Chloride
 170
 30
 mg/Kg
 20
 7/30/2018 5:45:47 PM
 39467

Lab ID: 1807E43-010 **Collection Date:** 7/24/2018 12:45:00 PM

Client Sample ID: SW15 Matrix: SOIL

Analyses Result PQL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: JRR

Chloride ND 30 mg/Kg 20 7/30/2018 5:58:12 PM 39467

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

Qualifiers: * Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits Page 2 of 8

P Sample pH Not In Range

RL Reporting Detection Limit

Lab Order: **1807E43**Date Reported: **8/6/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Lab Order: 1807E43

Project: Marbob SWD

Lab ID: 1807E43-011 **Collection Date:** 7/24/2018 1:00:00 AM

Client Sample ID: BH6-4 Matrix: SOIL

Analyses	Result	PQL	Qual Units	DF	Date Analyzed B	atch ID
EPA METHOD 300.0: ANIONS					Analys	t: JRR
Chloride	2000	75	mg/Kg	50	8/2/2018 12:55:49 AM	39502
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	t: TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/3/2018 10:06:35 AM	39509
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/3/2018 10:06:35 AM	39509
Surr: DNOP	89.7	50.6-138	%Rec	1	8/3/2018 10:06:35 AM	39509
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/31/2018 2:34:29 PM	39455
Surr: BFB	96.3	15-316	%Rec	1	7/31/2018 2:34:29 PM	39455
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.024	mg/Kg	1	7/31/2018 2:34:29 PM	39455
Toluene	ND	0.048	mg/Kg	1	7/31/2018 2:34:29 PM	39455
Ethylbenzene	ND	0.048	mg/Kg	1	7/31/2018 2:34:29 PM	39455
Xylenes, Total	ND	0.096	mg/Kg	1	7/31/2018 2:34:29 PM	39455
Surr: 4-Bromofluorobenzene	108	80-120	%Rec	1	7/31/2018 2:34:29 PM	39455

Lab ID: 1807E43-012 **Collection Date:** 7/24/2018 1:15:00 AM

Client Sample ID: BH5-3 Matrix: SOIL

Analyses	Result	PQL	Qual Units	DF	Date Analyzed B	atch ID
EPA METHOD 300.0: ANIONS					Analys	: MRA
Chloride	840	30	mg/Kg	20	8/1/2018 12:09:57 AM	39502
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	:: TOM
Diesel Range Organics (DRO)	12	9.9	mg/Kg	1	8/3/2018 10:31:08 AM	39509
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/3/2018 10:31:08 AM	39509
Surr: DNOP	110	50.6-138	%Rec	1	8/3/2018 10:31:08 AM	39509
EPA METHOD 8015D: GASOLINE RANGE					Analys	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/31/2018 2:57:58 PM	39455
Surr: BFB	97.7	15-316	%Rec	1	7/31/2018 2:57:58 PM	39455
EPA METHOD 8021B: VOLATILES					Analys	: NSB
Benzene	ND	0.025	mg/Kg	1	7/31/2018 2:57:58 PM	39455
Toluene	ND	0.050	mg/Kg	1	7/31/2018 2:57:58 PM	39455
Ethylbenzene	ND	0.050	mg/Kg	1	7/31/2018 2:57:58 PM	39455
Xylenes, Total	ND	0.099	mg/Kg	1	7/31/2018 2:57:58 PM	39455
Surr: 4-Bromofluorobenzene	108	80-120	%Rec	1	7/31/2018 2:57:58 PM	39455

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

Qualifiers: * Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order: 1807E43

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 8/6/2018

1807E43

CLIENT: Souder, Miller & Associates Lab Order:

Project: Marbob SWD

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- $\begin{tabular}{ll} I & Analyte detected below quantitation limits & Page 4 of 8 \end{tabular}$
- P Sample pH Not In Range
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **1807E43**

06-Aug-18

Client: Souder, Miller & Associates

Project: Marbob SWD

Sample ID MB-39466 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 39466 RunNo: 53064

Prep Date: 7/28/2018 Analysis Date: 7/29/2018 SeqNo: 1745549 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID LCS-39466 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 39466 RunNo: 53064

Prep Date: 7/28/2018 Analysis Date: 7/29/2018 SeqNo: 1745550 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 95.1 90 110

Sample ID MB-39467 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 39467 RunNo: 53064

Prep Date: 7/28/2018 Analysis Date: 7/29/2018 SeqNo: 1745579 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID LCS-39467 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 39467 RunNo: 53064

Prep Date: 7/28/2018 Analysis Date: 7/29/2018 SeqNo: 1745580 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 15 1.5 15.00 0 97.3 90 110

Sample ID MB-39502 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 39502 RunNo: 53117

Prep Date: 7/31/2018 Analysis Date: 7/31/2018 SegNo: 1747523 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID LCS-39502 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 39502 RunNo: 53117

Prep Date: 7/31/2018 Analysis Date: 7/31/2018 SeqNo: 1747524 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 95.7 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Released to Imaging: 11/5/2025 11:02:30 AM

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1807E43 06-Aug-18

Client: Souder, Miller & Associates

Project: Marbob SWD

Sample ID MB-39489 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **PBS** Batch ID: 39489 RunNo: 53063

Prep Date: 7/30/2018 Analysis Date: 8/1/2018 SeqNo: 1747164 Units: %Rec

Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Surr: DNOP 50.6 8.5 10.00 85.0 138

Sample ID LCS-39489 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 39489 RunNo: 53063

Prep Date: 7/30/2018 Analysis Date: 8/1/2018 SeqNo: 1747165 Units: %Rec

SPK value SPK Ref Val %REC Analyte Result LowLimit HighLimit %RPD **RPDLimit** Qual

Surr: DNOP 4.0 5.000 796 50.6 138

Sample ID MB-39509 TestCode: EPA Method 8015M/D: Diesel Range Organics SampType: MBLK Client ID: **PBS** Batch ID: 39509 RunNo: 53063

Analysis Date: 8/1/2018 Prep Date: 7/31/2018 SeqNo: 1747957 Units: mg/Kg

PQL SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit HighLimit Qual Diesel Range Organics (DRO) ND 10

ND Motor Oil Range Organics (MRO) 50

Surr: DNOP 7.6 10.00 75.9 50.6 138

TestCode: EPA Method 8015M/D: Diesel Range Organics Sample ID LCS-39509 SampType: LCS

Client ID: LCSS Batch ID: 39509 RunNo: 53063

Analysis Date: 8/1/2018 SeqNo: 1747958 Prep Date: 7/31/2018 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQI LowLimit HighLimit Qual Diesel Range Organics (DRO) 48 10 50.00 0 96.9 70 130

Surr: DNOP 5.000 3.7 73.3 50.6 138

Sample ID LCS-39543 TestCode: EPA Method 8015M/D: Diesel Range Organics SampType: LCS

Batch ID: 39543 RunNo: 53150 Client ID: LCSS

Prep Date: 8/1/2018 Analysis Date: 8/3/2018 SeqNo: 1749789 Units: %Rec

%RPD **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit **RPDLimit** Analyte Result Qual

Surr: DNOP 4.4 5.000 88.4 50.6 138

Sample ID MB-39543 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 39543 RunNo: 53150

Prep Date: 8/1/2018 Analysis Date: 8/3/2018 SeqNo: 1749791 Units: %Rec

Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual PQI

Surr: DNOP 9.6 10.00 96.2 50.6 138

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

Е Value above quantitation range

J Analyte detected below quantitation limits

Page 6 of 8

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: **1807E43**

06-Aug-18

Client: Souder, Miller & Associates

Project: Marbob SWD

Sample ID MB-39455 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 39455 RunNo: 53075

Prep Date: 7/27/2018 Analysis Date: 7/30/2018 SeqNo: 1745897 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 940 1000 94.1 15 316

Sample ID LCS-39455 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 39455 RunNo: 53075

1100

Prep Date: 7/27/2018 Analysis Date: 7/30/2018 SeqNo: 1745898 Units: mg/Kg

1000

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 29 5.0 25.00 0 114 75.9 131

108

15

316

Qualifiers:

Surr: BFB

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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Page 7 of 8

Hall Environmental Analysis Laboratory, Inc.

1.0

WO#: **1807E43**

06-Aug-18

Client: Souder, Miller & Associates

Project: Marbob SWD

Surr: 4-Bromofluorobenzene

Sample ID MB-39455 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: **PBS** Batch ID: 39455 RunNo: 53075 Prep Date: 7/27/2018 Analysis Date: 7/30/2018 SeqNo: 1745932 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene ND 0.025 ND 0.050 Toluene Ethylbenzene ND 0.050 Xylenes, Total ND 0.10

104

80

120

Sample ID LCS-39455	SampT	SampType: LCS TestCode: EPA Method 8021B: Volatiles									
Client ID: LCSS	Batch	ch ID: 39455 RunNo: 53075									
Prep Date: 7/27/2018	Analysis D	ate: 7/	30/2018	S	745933	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.93	0.025	1.000	0	93.5	77.3	128				
Toluene	0.97	0.050	1.000	0	96.5	79.2	125				
Ethylbenzene	0.95	0.050	1.000	0	94.8	80.7	127				
Xylenes, Total	2.9	0.10	3.000	0	96.7	81.6	129				
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120				

1.000

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 8 of 8



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	SMA-CARLSBAD	Work Order Num	ber: 1807E43	·	RcptNo:	1
Received By:	Isaiah Ortiz	7/26/2018 11:00:00) AM	IO	•	
Completed By:	Ashley Gallegos	7/26/2018 5:37:43	PM	An		
Reviewed By:	her broo	2/12/10		sg ph	: FNU7	127/18
Chain of Cus	stody			·		<u> </u>
	Gustody complete?		Yes 🗹	No 🗌	Not Present	
2. How was the	sample delivered?		Courier			
Log In						
	mpt made to cool the samples	>	Yes 🗸	No 🗆	NA \square	
4. Were all sam	ples received at a temperature	of >0° C to 6.0°C	Yes 🗹	No 🗆	na 🗆	
5. Sample(s) in	proper container(s)?		Yes 🔽	No 🗆		
6 Sufficient sam	nple volume for indicated test(:	3)?	Yes 🗸	No 🗆		
	(except VOA and ONG) prope		Yes ✓	No 🗌		
-	ative added to bottles?	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Yes	No 🗹	NA \square	
9. VOA vials hav	ve zero headspace?		Yes 🗌	No 🗆	No VOA Vials	
10. Were any sar	mple containers received broke	en?	Yes	No 🗹 🗆		<u>d.</u>
					# of preserved bottles checked v	27113
· ·	ork match bottle labels? ancies on chain of custody)		Yes 🗹	No 🗆	for pH:	12 unless noted)
•	correctly identified on Chain of	Custody?	Yes 🗹	No 🗆	Adjusted 2	
	it analyses were requested?		Yes 🗹	No 🗆		
	ing times able to be met?		Yes 🗹	No □	Checked by:	
•	ling (if applicable)					
	otified of all discrepancies with	this order?	Yes	No 🗌	NA 🗹	
Person	Notified:	Date				
By Who	om:	Via:	*····	Phone Fax [In Person	
Regard	2					
Client II	nstructions:					
16. Additional re	emarks:	-				
17. <u>Cooler Infor</u>	rmation					
Cooler No	Temp*C Condition S	eal intact Seal No	Seal Date	Signed By		
<u> 1</u>	2.2 Good Ye	S				

Page 1 of 1

	BTEX + MTBE + TPH (Gas only) TPH 8015B (GRO \ DRO \ MRO) TPH (Method 418.1) PAH's (8310 or 8270 SIMS) PAH's (8310 or 8270 SIMS) RCRA 8 Metals RO81 Pesticides \ 8082 PCB's 8260B (VOA) 8270 (Semi-VOA) 8270 (Semi-VOA)	×	**	*	×	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\(\sigma\)	*	× 3	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	*		Time (1 4 1 2 2) 1
Turn-Around Time: ☐ Standard (Rush S 4) Project Name: Mac bolo S W Project #:	Project Manager: Container Preservative Pres	H67 -001		200-	-004	-005	200-	-007	807- 2008	00-	X 110- X	Received 8: A Time Lookemarks.	ECOUNTY 1/26
Chain-of-Custody Record Client: Color Mailing Address:	□ Level 4 (Full Validation) herx Sample Request ID	17249 11:00 Soul Sour	V ,	8m8 q:11	11:15 Sw 9	1630 1 80 60	11~5 871)	Sw	12/5 55/13	2 2	3	Date: Time: Relinquished by:	Daje: Time: Relinquished by: Received by: Received by: Received by: 1.00



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

November 12, 2018

Austin Weyant Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-7040

FAX

RE: Marbob OrderNo.: 1811330

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 10 sample(s) on 11/7/2018 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indel

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report
Lab Order 1811330

Date Reported: 11/12/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW1

 Project:
 Marbob
 Collection Date: 11/5/2018 3:24:00 PM

 Lab ID:
 1811330-001
 Matrix: SOIL
 Received Date: 11/7/2018 8:50:00 AM

Analyses	Result	PQL Qua	l Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: smb
Chloride	67	30	mg/Kg	20	11/8/2018 2:32:46 PM	M 41426

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

Qualifiers: Value exceeds Maximum Contaminant Level. Analyte detected in the associated Method Blank D Sample Diluted Due to Matrix Е Value above quantitation range Analyte detected below quantitation limits Page 1 of 12 Н Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P Sample pH Not In Range PQL Practical Quanitative Limit RLReporting Detection Limit

S % Recovery outside of range due to dilution or matrix W Sample container temperature is out of limit as specified

Date Reported: 11/12/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW2

 Project:
 Marbob
 Collection Date: 11/5/2018 2:00:00 PM

 Lab ID:
 1811330-002
 Matrix: SOIL
 Received Date: 11/7/2018 8:50:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: smb
Chloride	2200	75	mg/Kg	50	11/8/2018 7:05:46 PM	41426

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

Qualifiers: * Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits Page 2 of 12

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Date Reported: 11/12/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW6

 Project:
 Marbob
 Collection Date: 11/5/2018 1:30:00 PM

 Lab ID:
 1811330-003
 Matrix: SOIL
 Received Date: 11/7/2018 8:50:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: smb
Chloride	310	30	mg/Kg	20	11/8/2018 2:57:35 PM	41426

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

Qualifiers: Value exceeds Maximum Contaminant Level. Analyte detected in the associated Method Blank D Sample Diluted Due to Matrix Е Value above quantitation range Analyte detected below quantitation limits Page 3 of 12 Н Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P Sample pH Not In Range PQL Practical Quanitative Limit RLReporting Detection Limit

% Recovery outside of range due to dilution or matrix W Sample container temperature is out of limit as specified

Date Reported: 11/12/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW10

 Project:
 Marbob
 Collection Date: 11/5/2018 8:37:00 AM

 Lab ID:
 1811330-004
 Matrix: SOIL
 Received Date: 11/7/2018 8:50:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: smb
Chloride	ND	30	mg/Kg	20	11/8/2018 3:09:59 PM	<i>l</i> 41426

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

Qualifiers: Value exceeds Maximum Contaminant Level. Analyte detected in the associated Method Blank D Sample Diluted Due to Matrix Е Value above quantitation range Analyte detected below quantitation limits Page 4 of 12 Н Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P Sample pH Not In Range PQL Practical Quanitative Limit RLReporting Detection Limit

S % Recovery outside of range due to dilution or matrix W Sample container temperature is out of limit as specified

Date Reported: 11/12/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BH 1-8

 Project:
 Marbob
 Collection Date: 11/5/2018 4:00:00 PM

 Lab ID:
 1811330-005
 Matrix: SOIL
 Received Date: 11/7/2018 8:50:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: smb
Chloride	100	30	mg/Kg	20	11/8/2018 3:22:24 PM	1 41426

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

Qualifiers: Value exceeds Maximum Contaminant Level. Analyte detected in the associated Method Blank D Sample Diluted Due to Matrix Е Value above quantitation range Analyte detected below quantitation limits Page 5 of 12 Н Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P Sample pH Not In Range PQL Practical Quanitative Limit RLReporting Detection Limit

S % Recovery outside of range due to dilution or matrix W Sample container temperature is out of limit as specified

Date Reported: 11/12/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BH 2-12

 Project:
 Marbob
 Collection Date: 11/5/2018 3:07:00 PM

 Lab ID:
 1811330-006
 Matrix: SOIL
 Received Date: 11/7/2018 8:50:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: smb
Chloride	140	30	mg/Kg	20	11/8/2018 3:34:49 PM	1 41426

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

Qualifiers: Value exceeds Maximum Contaminant Level. Analyte detected in the associated Method Blank D Sample Diluted Due to Matrix Е Value above quantitation range Analyte detected below quantitation limits Page 6 of 12 Н Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P Sample pH Not In Range PQL Practical Quanitative Limit RL Reporting Detection Limit

S % Recovery outside of range due to dilution or matrix W Sample container temperature is out of limit as specified

Date Reported: 11/12/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BH 3-10

 Project:
 Marbob
 Collection Date: 11/5/2018 1:52:00 PM

 Lab ID:
 1811330-007
 Matrix: SOIL
 Received Date: 11/7/2018 8:50:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	smb
Chloride	550	30	mg/Kg	20	11/8/2018 3:47:13 PM	41426
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	11/8/2018 9:40:08 AM	41412
Toluene	ND	0.048	mg/Kg	1	11/8/2018 9:40:08 AM	41412
Ethylbenzene	ND	0.048	mg/Kg	1	11/8/2018 9:40:08 AM	41412
Xylenes, Total	ND	0.096	mg/Kg	1	11/8/2018 9:40:08 AM	41412
Surr: 4-Bromofluorobenzene	105	80-120	%Rec	1	11/8/2018 9:40:08 AM	41412

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 7 of 12
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 11/12/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BH 4-8

 Project:
 Marbob
 Collection Date: 11/5/2018 12:22:00 PM

 Lab ID:
 1811330-008
 Matrix: SOIL
 Received Date: 11/7/2018 8:50:00 AM

Analyses	Result	PQL Qı	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: smb
Chloride	340	30	mg/Kg	20	11/8/2018 4:49:16 PM	A 41426

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

Qualifiers: Value exceeds Maximum Contaminant Level. Analyte detected in the associated Method Blank D Sample Diluted Due to Matrix Е Value above quantitation range Analyte detected below quantitation limits Page 8 of 12 Н Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P Sample pH Not In Range PQL Practical Quanitative Limit RL Reporting Detection Limit

% Recovery outside of range due to dilution or matrix W Sample container temperature is out of limit as specified

Date Reported: 11/12/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BH 5-5

Project: Marbob Collection Date: 11/5/2018 10:40:00 AM Lab ID: 1811330-009 Matrix: SOIL Received Date: 11/7/2018 8:50:00 AM

Analyses	Result	PQL Qual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS			Analy	st: MRA
Chloride	180	30 mg/Kg	20 11/9/2018 11:59:32 A	AM 41445

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

Qualifiers: Value exceeds Maximum Contaminant Level. Analyte detected in the associated Method Blank D Sample Diluted Due to Matrix Е Value above quantitation range Н Holding times for preparation or analysis exceeded J

Analyte detected below quantitation limits Page 9 of 12 P

ND Not Detected at the Reporting Limit Sample pH Not In Range PQL Practical Quanitative Limit RL Reporting Detection Limit

Sample container temperature is out of limit as specified % Recovery outside of range due to dilution or matrix

Date Reported: 11/12/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BH 6-8

Project: Marbob Collection Date: 11/5/2018 10:07:00 AM Lab ID: 1811330-010 Matrix: SOIL Received Date: 11/7/2018 8:50:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Anal	yst: MRA
Chloride	120	30	mg/Kg	20	11/9/2018 12:11:56 I	PM 41445

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

Qualifiers: Value exceeds Maximum Contaminant Level.

> D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Е Value above quantitation range

Analyte detected below quantitation limits Page 10 of 12 J

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

12-Nov-18

1811330

WO#:

Client: Souder, Miller & Associates

Project: Marbob

Sample ID MB-41426 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: 41426 RunNo: 55509

Prep Date: 11/8/2018 Analysis Date: 11/8/2018 SeqNo: 1848594 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Chloride ND 1.5

Sample ID LCS-41426 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 41426 RunNo: 55509

Prep Date: 11/8/2018 Analysis Date: 11/8/2018 SeqNo: 1848595 Units: mg/Kg

SPK value SPK Ref Val **RPDLimit** Analyte Result PQL %REC LowLimit HighLimit %RPD Qual

Chloride 14 1.5 15.00 0 95.5 110

Sample ID MB-41445 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: 41445 RunNo: 55543

Prep Date: Analysis Date: 11/9/2018 11/9/2018 SeqNo: 1850235 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** HighLimit Qual

Chloride ND 1.5

Sample ID LCS-41445 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: Batch ID: 41445 RunNo: 55543 **LCSS**

Units: mg/Kg Prep Date: 11/9/2018 Analysis Date: 11/9/2018 SeqNo: 1850236

Analyte Result PQI SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

99.4 Chloride 15 1.5 15.00 0 90 110

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- POL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL

Reporting Detection Limit Sample container temperature is out of limit as specified

Released to Imaging: 11/5/2025 11:02:30 AM

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1811330

12-Nov-18

Client: Souder, Miller & Associates

Project: Marbob

Surr: 4-Bromofluorobenzene

Sample ID MB-41412 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: **PBS** Batch ID: 41412 RunNo: 55519

Prep Date: 11/7/2018 Analysis Date: 11/8/2018 SeqNo: 1848394 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Benzene ND 0.025 Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10

Surr: 4-Bromofluorobenzene 1.1 1.000 108 80 120

Sample ID LCS-41412 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: **LCSS** Batch ID: 41412 RunNo: 55519 Prep Date: 11/7/2018 Analysis Date: 11/8/2018 SeqNo: 1848395 Units: mg/Kg Analyte **PQL** SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Result LowLimit Qual 0.025 1.000 0 120 Benzene 0.94 93.6 80 Toluene 0.98 0.050 1.000 0 97.5 80 120 Ethylbenzene 0.98 0.050 0 97.8 80 1.000 120 Xylenes, Total 3.0 0.10 3.000 0 99.8 80 120

107

80

120

Sample ID 1811330-007AMS SampType: MS TestCode: EPA Method 8021B: Volatiles

1.000

Client ID: BH 3-10 Batch ID: 41412 RunNo: 55519

1.1

Prep Date: 11/7/2018	Analysis D	Date: 11	1/8/2018	S	SeqNo: 1	848397	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.023	0.9294	0	109	68.5	133			
Toluene	1.1	0.046	0.9294	0	116	75	130			
Ethylbenzene	1.1	0.046	0.9294	0	118	79.4	128			
Xylenes, Total	3.4	0.093	2.788	0	120	77.3	131			
Surr: 4-Bromofluorobenzene	1.0		0.9294		113	80	120			

Sample ID 1811330-007AMSD SampType: MSD TestCode: EPA Method 8021B: Volatiles

Client ID: BH 3-10 Batch ID: 41412 RunNo: 55519

Prep Date: 11/7/2018	Analysis D)ate: 1 1	1/8/2018	S	SeqNo: 1	848398	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.024	0.9775	0	114	68.5	133	10.0	20	
Toluene	1.2	0.049	0.9775	0	121	75	130	9.16	20	
Ethylbenzene	1.2	0.049	0.9775	0	124	79.4	128	9.83	20	
Xylenes, Total	3.7	0.098	2.933	0	125	77.3	131	8.81	20	
Surr: 4-Bromofluorobenzene	1.0		0.9775		107	80	120	0	0	

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range

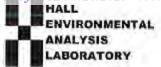
J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

Page 12 of 12



Hall Environmental Analysis Laborator 4901 Hawkins Nt. Albuquerque, NM 87105 TEL: 503-345-3975 FAX: 305-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	SMA-CARLSBAD	Work Order Number:	1811	330			ReptNo	1
Received By:	Victoria Zellar	11/7/2018 8:50:00 AM		1/1	etma	Sella	n	
Completed By:	Ashley Gallegos	11/7/2018 9:45:54 AM		439	1	7		
Reviewed By:	VV211/7/18		La	beled	E	7-		A. 1
Chain of Cus	etody							117 18
	ustody complete?		Ves		No.		Not Present	
	sample delivered?		Courie		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Log In								
	npt made to cool the samp	es?	Yes	~	No [I	NA 🗔	
4. Were all sam	ples received at a tempera	ture of >0° C to 6.0°C	Yes	v	No E		NA 🗆	
5. Sample(a) in	proper container(s)?		Yes	V	No E			
6. Sufficient sam	ple volume for indicated te	st(s)?	Yes 6		No T	7		
7. Are samples ((except VOA and ONG) pro	perly preserved?	Yes i	V	No [1		
8. Was preserva	stive added to bottles?		Yes [No V	1	NA L	
9. VOA vials hav	e zero headspace?		Yes I	1 0	No [Ĭ.	No VOA Vials 🗹	TO
10, Were any sar	mple containers received bi	roken?	Yes	1	No b	6	# of preserved	1-110
	ork match bottle labels? ancies on chain of custody)		Yes 6		No E	1	bottles checked / for pH:	>12 unless noted)
	correctly identified on Chair		Yes b	7	No E		. Adjusted?	- 12 unicos riolido)
	l analyses were requested		Yes 6		No []		
14. Were all holdi	ng times able to be met? ustonier for authorization.)		Yes		No L]	Checked by	
	ling (if applicable)							
	olified of all discrepancies w	with this order?	Yes	Ц	No I	1	NA 🗹	
Person	Notified:	Date		_				
By Who	om:	Via:	eMai	Phone	()	ax [In Person	1
Regard	ling:							
Client I	nstructions:							
16. Additional re	marks:							
17. Cooler Infor	The first of the last of the l	es a series						
Cooler No	Temp C Condition 5.6 Good	Seal Intact Seal No Se	eal Da	te Sign	ed By	4		
1.	5.0 0000	100				-1		

Page I of I

	Chain	-ot-C	Chain-of-Custody Record	Turn-Around Tim	Time:						TAME	ENVIDORING TANK	CALTAI
Cllent	SMA		Carisbad	□ Standard	Rush	2 day	1	U	ANA		SIS	ABORATOR	ATORY
				Project Name:	(e. /	7	U		WWW	hallenv	ronme	www.hallenVironmental.com	
Mailin	Mailing Address:	40		Marrie	rbob		49	4901 Hawkins NE -	kins N		uduero	Albuqueraue, NM 87109	60
				Project #			1	Tel. 505-	505-345-3975		Fax 50	505-345-4107	2
Phone #	**									Anal		Request	
email	email or Fax#			Project Manager:	ager:					"O		(tu	
OAVOC Sta	OA/OC Package:		☐ Level 4 (Full Validation)	I	Musth 1	Neyant	S08) e'	PCB's	SWISO	s 'bod		əsqV/tr	
Accred		DAZC	☐ Az Compliance	Sampler:	MRS			_		10 ^{S1}			
UN U		□ Other			s	ON C		_	10	_	IVC		
□ ED	□ EDD (Type)			# of Coolers: 1	7			_	018	_	_		
				Cooler Temp	C(40 Buranau)(3		Pestio (Meth	28 yd s	A 8 Me	NOV)	ime2) oilloD	
Date	Time Matrix	Matrix	Sample Name	Container Type and #	Preservative Type	1名1733D	_		НАЧ	~			
1115116	3:24	3	Swl	405		189-	>			1			
-			Sw2			7007				1			
	1.30		Juis.			-003				7			
-	8.37		Swid			400-				1			
-	4:00		8-100			1007				1			
	3:07	Ē	21-2018			709-				7			
	1:57		W 3-10			100-	>			7			
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-	10:40		8-5			-000				7			
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Date	Date: Time:	Reling	Over post	Received by:	Mar Centrul	1 Date Time	had war	200					

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 507006

QUESTIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	507006
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1821141249
Incident Name	NAB1821141249 MARBOB STATE #001 @ 30-015-26040
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-26040] MARBOB STATE #001

Location of Release Source	
Please answer all the questions in this group.	
Site Name MARBOB STATE #001	
Date Release Discovered 07/01/2018	
Surface Owner	State

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

Nature and Volume of Release	
laterial(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	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Other (Specify) Produced Water Released: 326 BBL Recovered: 0 BBL Lost: 326 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
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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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS, Page 2

Action 507006

QUESTI	ONS (continued)
Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre Dallas, TX 75240	Action Number: 507006
Dallas, 17 10240	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)
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.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	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 s	rafety 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.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releate OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are require asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep
Thereby agree and sign on to the above statement	Email: jason.touchet@matadorresources.com Date: 09/18/2025

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

QUESTIONS, Page 3

Action 507006

QUESTIONS (continued)

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	507006
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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 t 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	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan		
Please answer all the questions th	at apply or are indicated. This information must be provided to ti	he appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation p	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 vertica	l extents of contamination been fully delineated	Yes
Was this release entirely co	ontained within a lined containment area	No
Soil Contamination Sampling	Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride	(EPA 300.0 or SM4500 CI B)	31000
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	372
GRO+DRO	(EPA SW-846 Method 8015M)	209
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 NM which includes the anticipated timelines for beginning and completing the remediation.		
On what estimated date wil	I the remediation commence	10/13/2025
On what date will (or did) th	e final sampling or liner inspection occur	10/24/2025
On what date will (or was) the remediation complete(d)		10/24/2025
What is the estimated surface area (in square feet) that will be reclaimed		0
What is the estimated volume (in cubic yards) that will be reclaimed 0		0
What is the estimated surfa	ce area (in square feet) that will be remediated	10542
What is the estimated volun	ne (in cubic yards) that will be remediated	196
These estimated dates and measur	rements are recognized to be the best guess or calculation at the	time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 507006

QUESTIONS (continued)

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	507006
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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

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

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

I hereby agree and sign off to the above statement

Name: Jason Touchet Title: EHS Field Rep

Email: jason.touchet@matadorresources.com

Date: 09/18/2025

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 507006

QUESTIONS (continued)

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	507006
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

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QUESTIONS, Page 6

Action 507006

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY	OGRID: 228937			
One Lincoln Centre Dallas, TX 75240	Action Number: 507006			
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)			
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			

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CONDITIONS

Action 507006

CONDITIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	507006
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. The Variance Request for 400 ft2 floor confirmation sample size is approved. The release area will still need confirmation sidewall samples representing no more than 200 ft2. The Variance Request to use the Environmental Karst Study to ultimately determine the site as "stable" is approved. Any area designated as a "release extent" or "release area" will need to have confirmation samples conducted within the entire boundary of that area. Soil sample locations BH06 and BH07 need to be included in the release extent and must be fully vertically/horizontally delineated. The Variance Request to waive revegetation for the off-pad portion of the release area is denied. 19.15.29.13 NMAC outlines restoration, reclamation, and re-vegetation standards that must be met. Please include all of this documentation in the reclamation/revegetation report. All on and off-pad confirmation sample results must be included in the remediation closure report.	11/5/2025
rhamlet	All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards from Table 1 of the OCD Spill Rule for site receptor characterization/proven depth to water determination. Please make sure that the edge of the release extent is accurately defined. Sidewall/edge samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. The work will need to be completed in 90 days after the report has been reviewed.	