



August 7, 2023

New Mexico Oil Conservation Division

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

**Re: Closure Request
Encore M State #8
Incident Number NAPP2316640406
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Maverick Permian, LLC (Maverick), has prepared this Closure Request to document assessment and soil sampling activities at the Encore M State #8 (Site). The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of crude oil and produced water at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, Maverick is submitting this Closure Request and requesting no further action for Incident Number NAPP2316640406.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit J, Section 19, Township 22 South, Range 37 East, in Lea County, New Mexico (32.3764878° N, -103.1988662° W) and is associated with oil and gas exploration and production operations on state land managed by the New Mexico State Land Office (NMSLO).

On May 31, 2023, a mechanical failure on the wellhead resulted in the release of approximately 0.5 barrels (bbls) of crude oil and 11 barrels (bbls) of produced water onto the surface of the well pad. A vacuum truck was immediately dispatched to the site and recovered 5 barrels of free-standing fluid. Maverick reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on June 14, 2023. The release was assigned Incident Number NAPP2316640406.

Since the release remained on the active well pad, an assessment of cultural properties had already been completed prior to the construction of the well pad and as such, the Cultural Properties Protection Rule (CPP) has been followed. No additional cultural resource surveys were completed in connection with this release. The release area is not expected to be reclaimed until the oil and gas well is plugged and abandoned and the well pad is reclaimed. The Reclamation Plan for this release will default to the NMSLO-approved Reclamation Plan for the well pad per 19.2.100.67 of the New Mexico Administrative Code (NMAC).

Maverick Permian, LLC
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SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the NMAC. Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be greater than 51 feet below ground surface (bgs) based on regional groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geological Survey (USGS) well 322235103121901, located approximately 0.4 miles west of the site. The groundwater well has a reported depth to groundwater of 108.94 feet bgs. Several other water wells within a 1.5 miles radius of the Site indicate regional depth to groundwater is greater than 51 feet bgs.

The closest continuously flowing water or significant watercourse to the Site is a riverine, located approximately 2.4 miles south of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table 1 Closure Criteria (Closure Criteria) apply:

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

SITE ASSESSMENT AND SOIL SAMPLE ACTIVITIES

Maverick conducted an initial scrape of the saturated soil immediately after identifying the release. On June 7, 2023, Ensolum personnel were at the Site to evaluate the release based on information provided on the Form C-141 and visual observations. As a result of the initial response efforts, no surface staining was visible during the Site visit. Assessment soil samples SS01 through SS04 were collected from a depth of 0.5 feet bgs around the scraped release extent to confirm the lateral extent of the release. The release extent and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix B.

On July 14, 2023, Ensolum personnel returned to the Site to complete assessment activities within the release extent to assess for the presence or absence of impacted soil. Nine boreholes (BH01 through BH09) were advanced within the release extent via hand auger to depths ranging from 1-foot to 3 feet bgs. Final depth of the boreholes was determined by field screening results indicating compliance with the most stringent Table I Closure Criteria or hand auger refusal (BH02). Soil from the boreholes was field screened at 1-foot intervals for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Field screening results and observations for the boreholes were logged on lithologic soil sampling logs, which are

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included in Appendix C. Two delineation soil samples were collected from each borehole for laboratory analysis; the sample with the highest field screening result and the sample from the final borehole depth. The borehole and delineation soil sample locations are depicted on Figure 2.

The assessment and delineation soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories in Carlsbad, New Mexico, for analysis of the following contaminants of concern (COC): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 4500.

Laboratory analytical results for assessment samples SS01 through SS04, collected around the release extent, indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria, and successfully defined the lateral extent of the release. Laboratory analytical results for the delineation samples collected from boreholes BH01 through BH09 indicated all COC concentrations were compliant with the Site Closure Criteria. Additionally, the release was vertically delineated to the most stringent Table I Closure Criteria by delineation soil samples BH01B, BH03C, BH04D, BH05C, BH06C, BH07A through BH09A. The laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D.

CLOSURE REQUEST

Site assessment activities were conducted at the Site to assess for the presence or absence of impacted soil resulting from the May 31, 2023, release of crude oil and produced water onto the surface of the well pad. Assessment soil samples were collected within and around the release extent from depths ranging from 0.5 feet to 3 feet bgs. Laboratory analytical results for the assessment soil samples indicated all COC concentrations were compliant with the Site Closure Criteria. Additionally, the release was laterally and vertically delineated to below the most stringent Table I Closure Criteria.

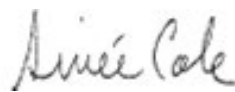
Initial response efforts have mitigated impacts at the Site. Based on initial response efforts, depth to groundwater greater than 51 feet bgs, and soil sample laboratory analytical results compliant with the Site Closure Criteria, no further remediation is required. Maverick believes the remedial actions completed are protective of human health, the environment, and groundwater and respectfully requests closure for Incident Number NAPP2316640406. NMOCD notifications are provided in Appendix E and the Final C-141 is attached as Appendix F.

If you have any questions or comments, please contact Ms. Aimee Cole at (720) 384-7365 or acole@ensolum.com.

Sincerely,
Ensolum, LLC



Julianna Falcomata
Staff Geologist



Aimee Cole
Senior Managing Scientist

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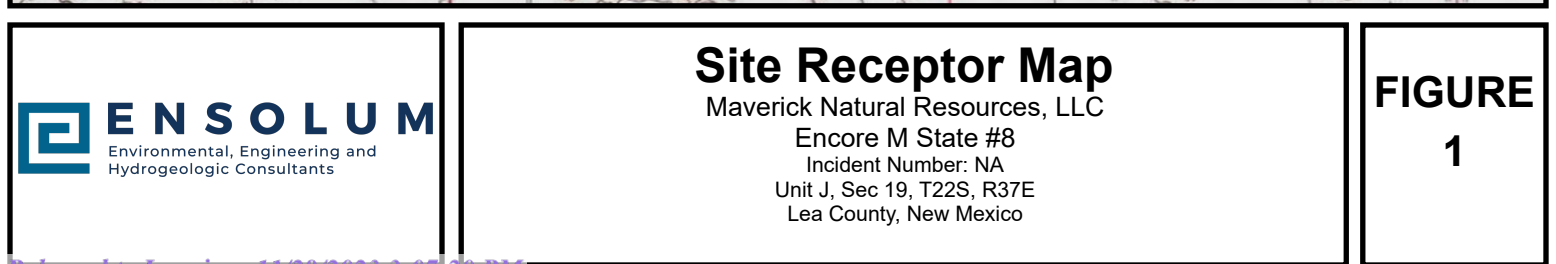
cc: Bryce Wagoner, Maverick Permian, LLC
New Mexico State Land Office

Appendices:

Figure 1 Site Receptor Map
Figure 2 Assessment and Delineation Soil Sample Locations
Table 1 Soil Sample Analytical Results
Appendix A Referenced Well Records
Appendix B Photographic Log
Appendix C Lithologic / Soil Sampling Logs
Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix E NMOCD Notifications
Appendix F Final C-141

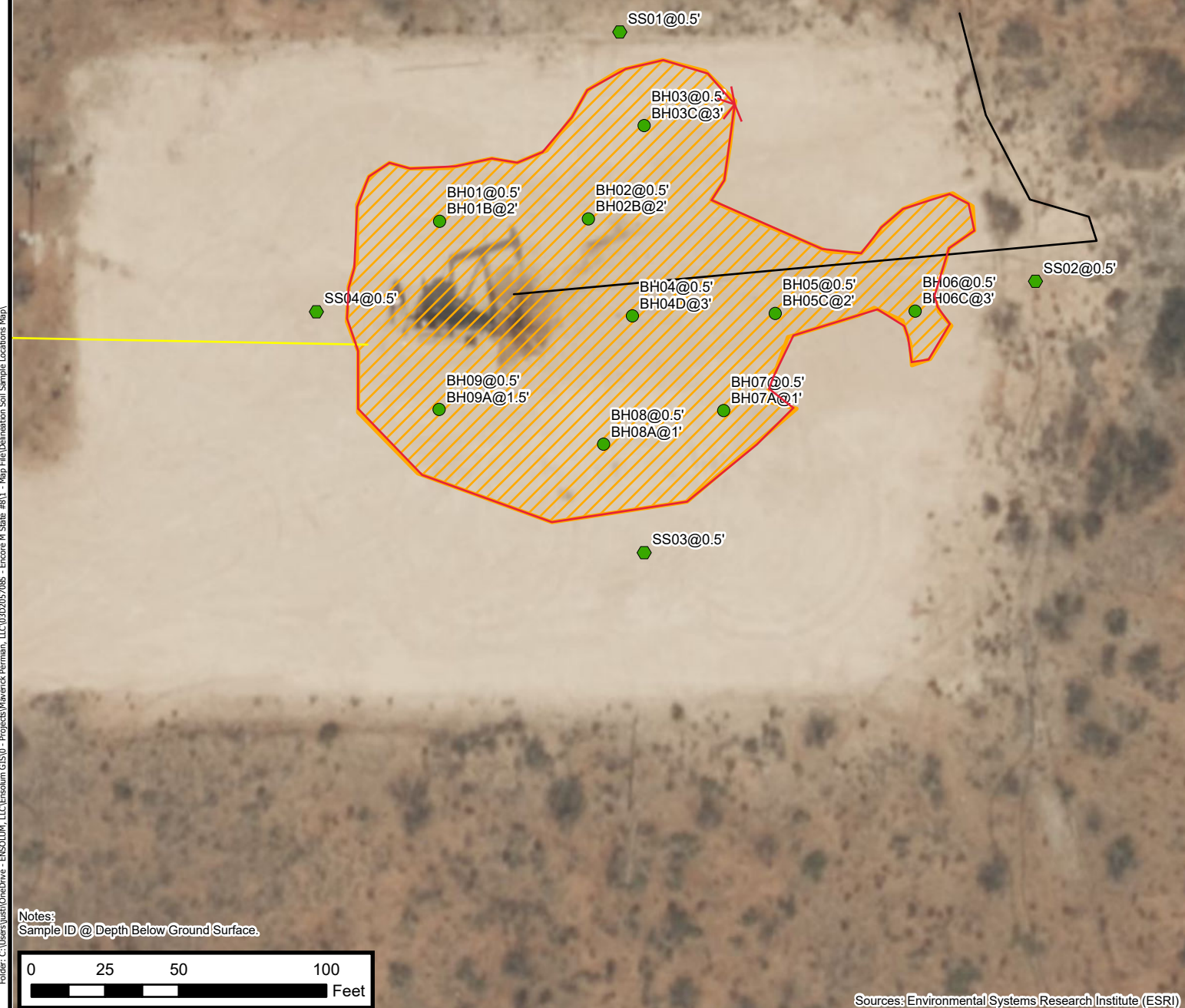


FIGURES



Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Assessment Soil Sample in Compliance with Closure Criteria
- Oil and Gas Utility Line
- ▨ Release Extent
- Electric Utility Line

**Assessment and Delineation Soil Sample Locations**

Maverick Permian, LLC
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 Incident Number: NAPP2316640406
 Unit J, Sec 19, T22S, R37E
 Lea County, New Mexico

FIGURE
2





TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS ENCORE M STATE #8 Maverick Permian, LLC Lea County, New Mexico										
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
Assessment Soil Samples										
SS01	6/7/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS02	6/7/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS03	6/7/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS04	6/7/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
Delineation Soil Samples										
BH01	7/14/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
BH01B	7/14/2023	2.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
BH02	7/14/2023	0.5	<0.050	<0.300	<10.0	96.6	15.0	96.6	112	2,120
BH02B	7/14/2023	2.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	848
BH03	7/14/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,600
BH03C	7/14/2023	3.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
BH04	7/14/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,400
BH04D	7/14/2023	3.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
BH05	7/14/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	848
BH05C	7/14/2023	2.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
BH06	7/14/2023	0.5	<0.050	<0.300	<10.0	56.0	<10.0	56.0	56.0	3,040
BH06C	7/14/2023	3.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
BH07	7/14/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,070
BH07A	7/14/2023	1.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
BH08	7/14/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
BH08A	7/14/2023	1.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BH09	7/14/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BH09A	7/14/2023	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

TPH: Total Petroleum Hydrocarbon

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.**Grey** text represents samples that have been excavated



APPENDIX A

Referenced Well Records




New Mexico Office of the State Engineer

Water Right Summary


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WR File Number: CP 00628 **Subbasin:** CP **Cross Reference:** -
Primary Purpose: SAN 72-12-1 SANITARY IN CONJUNCTION WITH A COMMERCIAL USE
Primary Status: PMT PERMIT
Total Acres: **Subfile:** - **Header:** -
Total Diversion: 3 **Cause/Case:** -
Owner: NORTHERN NATURAL GAS COMPANY

Documents on File

	Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
				1	2					
 get images	475196	72121	1980-11-03	PMT	LOG	CP 00628	T		3	

Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q	64Q16Q4Sec	Tws	Rng	X	Y	Other Location Desc
CP 00628		Shallow		2	1	18 22S 37E	668892	3585888*	

An () after northing value indicates UTM location was derived from PLSS - see Help

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

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WATER RIGHT SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)				(NAD83 UTM in meters)			
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 00628		2	1	18	22S	37E	668892	3585888*

Driller License:	46	Driller Company:	ABBOTT BROTHERS COMPANY	
Driller Name:	ABBOTT, MURRELL			
Drill Start Date:	11/04/1980	Drill Finish Date:	11/19/1980	Plug Date:
Log File Date:	12/10/1980	PCW Rev Date:		Source: Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield: 0 GPM
Casing Size:	7.00	Depth Well:	525 feet	Depth Water: 190 feet

Water Bearing Stratifications:	Top	Bottom	Description
	195	205	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	197	297

*UTM location was derived from PLSS - see Help

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

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USGS 322235103121901 22S.37E.19.141144

Available data for this site

SUMMARY OF ALL AVAILABLE DATA ▼

GO

Well Site

DESCRIPTION:

Latitude 32°22'35", Longitude 103°12'19" NAD27

Lea County, New Mexico , Hydrologic Unit 13070007

Well depth: 200 feet

Land surface altitude: 3,430 feet above NAVD88.

Well completed in "Other aquifers" (N9999OTHER) national aquifer.

Well completed in "Alluvium, Bolson Deposits and Other Surface Deposits" (110AVMB) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1968-03-21	1970-12-01	2
Revisions	Unavailable (site:0) (timeseries:0)		

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center

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Title: NWIS Site Information for USA: Site Inventory

URL: [https://waterdata.usgs.gov/nwis/inventory?](https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=322235103121901)

[agency_code=USGS&site_no=322235103121901](https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=322235103121901)



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Data Category:
Groundwater

Geographic Area:
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Groundwater levels for the Nation

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Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 322235103121901

Minimum number of levels = 1

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

USGS 322235103121901 22S.37E.19.141144

Lea County, New Mexico
Latitude 32°22'35", Longitude 103°12'19" NAD27
Land-surface elevation 3,430 feet above NAVD88
The depth of the well is 200 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1968-03-21			D	62610	3319.71	NGVD29	1	Z		
1968-03-21			D	62611	3321.14	NAVD88	1	Z		
1968-03-21			D	72019	108.86		1	Z		
1970-12-01			D	62610	3319.63	NGVD29	1	Z		
1970-12-01			D	62611	3321.06	NAVD88	1	Z		
1970-12-01			D	72019	108.94		1	Z		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929

Section	Code	Description
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Title: Groundwater for USA: Water Levels
URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



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0.27 0.24 nadww02



APPENDIX B

Photographic Log



Photographic Log
Maverick Permian, LLC
Encore M State #8
NAPP2316640406



Photograph: 1 Date: 5/31/2023
Description: Initial release extent.
View: East



Photograph: 2 Date: 6/7/2023
Description: Release area after surface scraping.
View: East



Photograph: 3 Date: 7/14/2023
Description: Release area during delineation activities.
View: West





Photograph: 4 Date: 7/14/2023
Description: Delineation activities
View: Southwest




APPENDIX C


Lithologic Soil Sampling Logs


 ENSOLUM								Sample Name: BH01		Date: 7/14/23	
								Site Name: Encore M State #8			
								Incident Number: NAPP2316640406			
								Job Number: 03D2057085			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Ronni Hayes		Method: Hand auger	
Coordinates:								Hole Diameter: 4"		Total Depth:	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
Drv	3,297.8	0.9	Y	BH01	0.5	0	SP-SM	SAND, some limestone gravel, tan, noncohesive, odor, staining, poorly sorted			
Moist	1,019.20	1.1	Y	BH01A	1	1	SP-SM	SAND, little gravel, poorly sorted, light brown, noncohesive, odor, staining,			
Moist	548.8	0.6	N	BH01B	2	2	SP-SM	SAND, medium brown, noncohesive, no odor, no staining, very fine to fine, poorly sorted			
						3					
						4					
						5					
						6					
						7					
						8					
						9					
						10					
						11					
						12					

								Sample Name: BH03		Date: 7/14/23	
								Site Name: Encore M State #8			
								Incident Number: NAPP2316640406			
								Job Number: 03D2057085			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Ronni Hayes		Method: Hand auger	
Coordinates:								Hole Diameter: 4"		Total Depth:	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0					
Dry	3,292.8	0.7	Y	BH03	0.5	0.5	SP-SM	SAND, some limestone gravel, tan, noncohesive, odor, staining, poorly sorted			
Moist	1,730.40	0.8	Y	BH03A	1	1	SP-SM	SAND, little gravel, poorly sorted, light brown, noncohesive, odor, staining,			
Moist	1,103.20	0.5	N	BH03B	2	2	SP-SM	SAND, medium brown, noncohesive, no odor, no staining, very fine to fine, poorly sorted			
Moist	403.2	0.5	N	BH03C	3	3	SAA	SAA			
								TD at 3 ft bgs			

							Sample Name: BH04		Date: 7/14/23	
							Site Name: Encore M State #8			
							Incident Number: NAPP2316640406			
							Job Number: 03D2057085			
LITHOLOGIC / SOIL SAMPLING LOG							Logged By: Ronni Hayes		Method: Hand auger	
Coordinates:							Hole Diameter: 4"		Total Depth:	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.										
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions		
						0				
Dry	4,452.0	0.7	Y	BH04	0.5	0.5	SP-SM	SAND, some limestone gravel, tan, noncohesive, odor, staining, poorly sorted		
Moist	2,122.40	0.3	Y	BH04A	1	1	SP-SM	SAND, little gravel, poorly sorted, light brown, noncohesive, odor, staining,		
Moist	1848	1.2		BH04B	1.5	1.5	SAA	SAA		
Moist	806.40	0.5		BH04C	2	2	SP-SM	SAND, medium brown, noncohesive, no odor, no staining, very fine to fine, poorly sorted		
Moist	498.4	0.7		BH04D	3	3	SAA	SAA		

[illegible]

								Sample Name: BH06		Date: 7/14/23	
								Site Name: Encore M State #8			
								Incident Number: NAPP2316640406			
								Job Number: 03D2057085			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Ronni Hayes		Method: Hand auger	
Coordinates:								Hole Diameter: 4"		Total Depth:	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
Dry	2811.2	0	Y	BH06	0.5	0.5	SP-SM	SAND, some limestone gravel, tan, noncohesive, odor, staining, poorly sorted			
Moist	2,279.2	0	Y	BH06A	1	1	SP-SM	SAND, little gravel, poorly sorted, light brown, noncohesive, odor, staining,			
Moist	229.6	2.1	N	BH06B	2	2	SP-SM	SAND, medium brown, noncohesive, odor, no staining, poorly sorted, some limestone gravel			
Moist	<173.8	0.7	N	BH06C	3	3	SAA	SAA, no odor			

								Sample Name: BH09		Date: 7/14/23	
								Site Name: Encore M State #8			
								Incident Number: NAPP2316640406			
								Job Number: 03D2057085			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Ronni Hayes		Method: Hand auger	
Coordinates:								Hole Diameter: 4"		Total Depth:	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
Dry	<173.8	1.9	Y	BH09	0.5	0	SP-SM	SAND, some limestone gravel, tan, noncohesive, odor, staining, poorly sorted			
						1	SP-SM				
Moist	<173.8	0.8	N	BH09A	1.5	1.5	SP-SM	SAND, little gravel, poorly sorted, medium brown, noncohesive, no odor, no staining,			
								TD at 1.5 ft bgs			



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

June 12, 2023

KALEI JENNINGS

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ENCURRE M STATE #8

Enclosed are the results of analyses for samples received by the laboratory on 06/07/23 12:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
KALEI JENNINGS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	06/07/2023	Sampling Date:	06/07/2023
Reported:	06/12/2023	Sampling Type:	Soil
Project Name:	ENCURRE M STATE #8	Sampling Condition:	Cool & Intact
Project Number:	03D2057085	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.3764878 - 103.1988662)		

Sample ID: SS 01 @ .5' (H232895-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2023	ND	2.22	111	2.00	1.28	
Toluene*	<0.050	0.050	06/09/2023	ND	2.21	111	2.00	0.322	
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.26	113	2.00	1.27	
Total Xylenes*	<0.150	0.150	06/09/2023	ND	6.68	111	6.00	1.15	
Total BTEX	<0.300	0.300	06/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/07/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	205	103	200	19.8	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	205	103	200	17.3	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 81.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.4 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
KALEI JENNINGS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	06/07/2023	Sampling Date:	06/07/2023
Reported:	06/12/2023	Sampling Type:	Soil
Project Name:	ENCURRE M STATE #8	Sampling Condition:	Cool & Intact
Project Number:	03D2057085	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.3764878 - 103.1988662)		

Sample ID: SS 02 @ .5' (H232895-02)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/09/2023	ND	2.22	111	2.00	1.28		
Toluene*	<0.050	0.050	06/09/2023	ND	2.21	111	2.00	0.322		
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.26	113	2.00	1.27		
Total Xylenes*	<0.150	0.150	06/09/2023	ND	6.68	111	6.00	1.15		
Total BTEx	<0.300	0.300	06/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/07/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	205	103	200	19.8	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	205	103	200	17.3	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 98.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
KALEI JENNINGS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	06/07/2023	Sampling Date:	06/07/2023
Reported:	06/12/2023	Sampling Type:	Soil
Project Name:	ENCURRE M STATE #8	Sampling Condition:	Cool & Intact
Project Number:	03D2057085	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.3764878 - 103.1988662)		

Sample ID: SS 03 @ .5' (H232895-03)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/09/2023	ND	2.22	111	2.00	1.28		
Toluene*	<0.050	0.050	06/09/2023	ND	2.21	111	2.00	0.322		
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.26	113	2.00	1.27		
Total Xylenes*	<0.150	0.150	06/09/2023	ND	6.68	111	6.00	1.15		
Total BTEx	<0.300	0.300	06/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/07/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	205	103	200	19.8	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	205	103	200	17.3	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 95.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
KALEI JENNINGS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	06/07/2023	Sampling Date:	06/07/2023
Reported:	06/12/2023	Sampling Type:	Soil
Project Name:	ENCURRE M STATE #8	Sampling Condition:	Cool & Intact
Project Number:	03D2057085	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.3764878 - 103.1988662)		

Sample ID: SS 04 @ .5' (H232895-04)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/09/2023	ND	2.22	111	2.00	1.28		
Toluene*	<0.050	0.050	06/09/2023	ND	2.21	111	2.00	0.322		
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.26	113	2.00	1.27		
Total Xylenes*	<0.150	0.150	06/09/2023	ND	6.68	111	6.00	1.15		
Total BTEX	<0.300	0.300	06/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/07/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	205	103	200	19.8	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	205	103	200	17.3	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 93.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Ensolum, LLC</u>				BILL TO				ANALYSIS REQUEST															
Project Manager: <u>Halei Jennings</u>				P.O. #:																			
Address: <u>8122 Nat'l Parks Hwy</u>				Company: <u>A.A.</u>																			
City: <u>Carlsbad</u> State: <u>NM</u> Zip: <u>88220</u>				Attn:																			
Phone #: <u>505-683-2505</u> Fax #:				Address:																			
Project #: <u>0302057085</u> Project Owner: <u>Maurerich</u>				City:																			
Project Name: <u>Chenorre M State #8</u>				State: Zip:																			
Project Location: <u>32.3764878 -108.1988662</u>				Phone #:																			
Sampler Name: <u>Julianne Falcomata</u>				Fax #:																			
FOR LAB USE ONLY																							
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.		SAMPLING		<u>BTEX</u> <u>TPH</u> <u>Chlorides</u>									
						GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL									OTHER:	DATE
<u>H232895</u>		<u>1 SS01 @ .5'</u>		<u>1</u>							<u>X</u>		<u>6/7/23</u>	<u>1035</u>	<u>X</u>	<u>X</u>	<u>X</u>						
		<u>2 SS02 @ .5'</u>																					
		<u>3 SS03 @ .5'</u>																					
		<u>4 SS04 @ .5'</u>																					

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or processors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <u>Julianne Falcomata</u>		Date: <u>6-7-23</u>	Received By: <u>Tamara Aldridge</u>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Relinquished By:		Date:	Received By:		All Results are emailed. Please provide Email address:	
		Time: <u>1250</u>			<u>jennings@ensolum.com jfalcomata@ensolum.com</u>	
		Time:			REMARKS:	
Delivered By: (Circle One)		Observed Temp. °C <u>3.9</u>	Sample Condition		Turnaround Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush	
Sampler - UPS - Bus - Other:		Corrected Temp. °C <u>3.3</u>	Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No		Bacteria (only) Sample Condition	
			CHECKED BY: (Initials) <u>JO</u>		Cool Intact <input type="checkbox"/> Observed Temp. °C	
					Thermometer ID #113 Correction Factor -0.6°C	
					Cool Intact <input type="checkbox"/> Observed Temp. °C	
					Corrected Temp. °C	

FORM-006 R 3.3 07/16/22

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

July 21, 2023

KALEI JENNINGS

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ENCORE M STATE #8

Enclosed are the results of analyses for samples received by the laboratory on 07/17/23 13:17.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
KALEI JENNINGS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/17/2023	Sampling Date:	07/14/2023
Reported:	07/21/2023	Sampling Type:	Soil
Project Name:	ENCORE M STATE #8	Sampling Condition:	Cool & Intact
Project Number:	03D2057085	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK (32.3764878 - 103.1988662)		

Sample ID: BH 01 0.5' (H233673-01)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/20/2023	ND	1.98	98.9	2.00	5.02	
Toluene*	<0.050	0.050	07/20/2023	ND	1.91	95.3	2.00	3.80	
Ethylbenzene*	<0.050	0.050	07/20/2023	ND	1.89	94.3	2.00	4.62	
Total Xylenes*	<0.150	0.150	07/20/2023	ND	6.09	101	6.00	5.63	
Total BTEX	<0.300	0.300	07/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	07/18/2023	ND	400	100	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2023	ND	202	101	200	6.25	
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	210	105	200	5.35	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					

Surrogate: 1-Chlorooctane 59.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.9 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
KALEI JENNINGS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 07/17/2023
Reported: 07/21/2023
Project Name: ENCORE M STATE #8
Project Number: 03D2057085
Project Location: MAVERICK (32.3764878 - 103.1988662)

Sampling Date: 07/14/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: BH 01B 2' (H233673-02)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/20/2023	ND	1.98	98.9	2.00	5.02		
Toluene*	<0.050	0.050	07/20/2023	ND	1.91	95.3	2.00	3.80		
Ethylbenzene*	<0.050	0.050	07/20/2023	ND	1.89	94.3	2.00	4.62		
Total Xylenes*	<0.150	0.150	07/20/2023	ND	6.09	101	6.00	5.63		
Total BTEx	<0.300	0.300	07/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	07/18/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2023	ND	202	101	200	6.25	
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	210	105	200	5.35	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					

Surrogate: 1-Chlorooctane 59.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
KALEI JENNINGS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/17/2023	Sampling Date:	07/14/2023
Reported:	07/21/2023	Sampling Type:	Soil
Project Name:	ENCORE M STATE #8	Sampling Condition:	Cool & Intact
Project Number:	03D2057085	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK (32.3764878 - 103.1988662)		

Sample ID: BH 02 0.5' (H233673-03)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/20/2023	ND	1.98	98.9	2.00	5.02		
Toluene*	<0.050	0.050	07/20/2023	ND	1.91	95.3	2.00	3.80		
Ethylbenzene*	<0.050	0.050	07/20/2023	ND	1.89	94.3	2.00	4.62		
Total Xylenes*	<0.150	0.150	07/20/2023	ND	6.09	101	6.00	5.63		
Total BTEx	<0.300	0.300	07/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2120	16.0	07/18/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2023	ND	202	101	200	6.25	
DRO >C10-C28*	96.6	10.0	07/19/2023	ND	210	105	200	5.35	
EXT DRO >C28-C36	15.0	10.0	07/19/2023	ND					

Surrogate: 1-Chlorooctane 57.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.8 % 49.1-148

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Analytical Results For:

ENSOLUM
KALEI JENNINGS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/17/2023	Sampling Date:	07/14/2023
Reported:	07/21/2023	Sampling Type:	Soil
Project Name:	ENCORE M STATE #8	Sampling Condition:	Cool & Intact
Project Number:	03D2057085	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK (32.3764878 - 103.1988662)		

Sample ID: BH 02B 2' (H233673-04)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/20/2023	ND	1.98	98.9	2.00	5.02		
Toluene*	<0.050	0.050	07/20/2023	ND	1.91	95.3	2.00	3.80		
Ethylbenzene*	<0.050	0.050	07/20/2023	ND	1.89	94.3	2.00	4.62		
Total Xylenes*	<0.150	0.150	07/20/2023	ND	6.09	101	6.00	5.63		
Total BTEx	<0.300	0.300	07/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	848	16.0	07/18/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2023	ND	202	101	200	6.25	
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	210	105	200	5.35	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					

Surrogate: 1-Chlorooctane 53.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.1 % 49.1-148

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Analytical Results For:

ENSOLUM
KALEI JENNINGS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/17/2023	Sampling Date:	07/14/2023
Reported:	07/21/2023	Sampling Type:	Soil
Project Name:	ENCORE M STATE #8	Sampling Condition:	Cool & Intact
Project Number:	03D2057085	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK (32.3764878 - 103.1988662)		

Sample ID: BH 03 0.5' (H233673-05)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/20/2023	ND	1.98	98.9	2.00	5.02		
Toluene*	<0.050	0.050	07/20/2023	ND	1.91	95.3	2.00	3.80		
Ethylbenzene*	<0.050	0.050	07/20/2023	ND	1.89	94.3	2.00	4.62		
Total Xylenes*	<0.150	0.150	07/20/2023	ND	6.09	101	6.00	5.63		
Total BTEx	<0.300	0.300	07/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3600	16.0	07/18/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2023	ND	202	101	200	6.25	
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	210	105	200	5.35	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					

Surrogate: 1-Chlorooctane 55.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.1 % 49.1-148

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Analytical Results For:

ENSOLUM
KALEI JENNINGS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/17/2023	Sampling Date:	07/14/2023
Reported:	07/21/2023	Sampling Type:	Soil
Project Name:	ENCORE M STATE #8	Sampling Condition:	Cool & Intact
Project Number:	03D2057085	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK (32.3764878 - 103.1988662)		

Sample ID: BH 03C 3' (H233673-06)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/20/2023	ND	1.98	98.9	2.00	5.02		
Toluene*	<0.050	0.050	07/20/2023	ND	1.91	95.3	2.00	3.80		
Ethylbenzene*	<0.050	0.050	07/20/2023	ND	1.89	94.3	2.00	4.62		
Total Xylenes*	<0.150	0.150	07/20/2023	ND	6.09	101	6.00	5.63		
Total BTEx	<0.300	0.300	07/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	07/18/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2023	ND	202	101	200	6.25	
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	210	105	200	5.35	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					

Surrogate: 1-Chlorooctane 54.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 63.9 % 49.1-148

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Analytical Results For:

ENSOLUM
KALEI JENNINGS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/17/2023	Sampling Date:	07/14/2023
Reported:	07/21/2023	Sampling Type:	Soil
Project Name:	ENCORE M STATE #8	Sampling Condition:	Cool & Intact
Project Number:	03D2057085	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK (32.3764878 - 103.1988662)		

Sample ID: BH 04 0.5' (H233673-07)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/20/2023	ND	1.98	98.9	2.00	5.02		
Toluene*	<0.050	0.050	07/20/2023	ND	1.91	95.3	2.00	3.80		
Ethylbenzene*	<0.050	0.050	07/20/2023	ND	1.89	94.3	2.00	4.62		
Total Xylenes*	<0.150	0.150	07/20/2023	ND	6.09	101	6.00	5.63		
Total BTX	<0.300	0.300	07/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6400	16.0	07/18/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/20/2023	ND	202	101	200	6.25	
DRO >C10-C28*	<10.0	10.0	07/20/2023	ND	210	105	200	5.35	
EXT DRO >C28-C36	<10.0	10.0	07/20/2023	ND					

Surrogate: 1-Chlorooctane 55.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.1 % 49.1-148

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Analytical Results For:

ENSOLUM
KALEI JENNINGS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/17/2023	Sampling Date:	07/14/2023
Reported:	07/21/2023	Sampling Type:	Soil
Project Name:	ENCORE M STATE #8	Sampling Condition:	Cool & Intact
Project Number:	03D2057085	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK (32.3764878 - 103.1988662)		

Sample ID: BH 04D 3' (H233673-08)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/20/2023	ND	1.98	98.9	2.00	5.02		
Toluene*	<0.050	0.050	07/20/2023	ND	1.91	95.3	2.00	3.80		
Ethylbenzene*	<0.050	0.050	07/20/2023	ND	1.89	94.3	2.00	4.62		
Total Xylenes*	<0.150	0.150	07/20/2023	ND	6.09	101	6.00	5.63		
Total BTEx	<0.300	0.300	07/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	07/18/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/20/2023	ND	202	101	200	6.25	
DRO >C10-C28*	<10.0	10.0	07/20/2023	ND	210	105	200	5.35	
EXT DRO >C28-C36	<10.0	10.0	07/20/2023	ND					

Surrogate: 1-Chlorooctane 56.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
KALEI JENNINGS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/17/2023	Sampling Date:	07/14/2023
Reported:	07/21/2023	Sampling Type:	Soil
Project Name:	ENCORE M STATE #8	Sampling Condition:	Cool & Intact
Project Number:	03D2057085	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK (32.3764878 - 103.1988662)		

Sample ID: BH 05 0.5' (H233673-09)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/20/2023	ND	1.98	98.9	2.00	5.02	
Toluene*	<0.050	0.050	07/20/2023	ND	1.91	95.3	2.00	3.80	
Ethylbenzene*	<0.050	0.050	07/20/2023	ND	1.89	94.3	2.00	4.62	
Total Xylenes*	<0.150	0.150	07/20/2023	ND	6.09	101	6.00	5.63	
Total BTX	<0.300	0.300	07/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	07/18/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/20/2023	ND	202	101	200	6.25	
DRO >C10-C28*	<10.0	10.0	07/20/2023	ND	210	105	200	5.35	
EXT DRO >C28-C36	<10.0	10.0	07/20/2023	ND					

Surrogate: 1-Chlorooctane 55.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.7 % 49.1-148

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Analytical Results For:

ENSOLUM
KALEI JENNINGS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/17/2023	Sampling Date:	07/14/2023
Reported:	07/21/2023	Sampling Type:	Soil
Project Name:	ENCORE M STATE #8	Sampling Condition:	Cool & Intact
Project Number:	03D2057085	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK (32.3764878 - 103.1988662)		

Sample ID: BH 05C 2' (H233673-10)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/20/2023	ND	1.98	98.9	2.00	5.02		
Toluene*	<0.050	0.050	07/20/2023	ND	1.91	95.3	2.00	3.80		
Ethylbenzene*	<0.050	0.050	07/20/2023	ND	1.89	94.3	2.00	4.62		
Total Xylenes*	<0.150	0.150	07/20/2023	ND	6.09	101	6.00	5.63		
Total BTEx	<0.300	0.300	07/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/18/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/20/2023	ND	202	101	200	6.25	
DRO >C10-C28*	<10.0	10.0	07/20/2023	ND	210	105	200	5.35	
EXT DRO >C28-C36	<10.0	10.0	07/20/2023	ND					

Surrogate: 1-Chlorooctane 58.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
KALEI JENNINGS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/17/2023	Sampling Date:	07/14/2023
Reported:	07/21/2023	Sampling Type:	Soil
Project Name:	ENCORE M STATE #8	Sampling Condition:	Cool & Intact
Project Number:	03D2057085	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK (32.3764878 - 103.1988662)		

Sample ID: BH 06 0.5' (H233673-11)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/20/2023	ND	1.98	98.9	2.00	5.02		
Toluene*	<0.050	0.050	07/20/2023	ND	1.91	95.3	2.00	3.80		
Ethylbenzene*	<0.050	0.050	07/20/2023	ND	1.89	94.3	2.00	4.62		
Total Xylenes*	<0.150	0.150	07/20/2023	ND	6.09	101	6.00	5.63		
Total BTEx	<0.300	0.300	07/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3040	16.0	07/18/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2023	ND	158	79.2	200	29.5	
DRO >C10-C28*	56.0	10.0	07/19/2023	ND	233	117	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					

Surrogate: 1-Chlorooctane 85.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
KALEI JENNINGS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 07/17/2023
Reported: 07/21/2023
Project Name: ENCORE M STATE #8
Project Number: 03D2057085
Project Location: MAVERICK (32.3764878 - 103.1988662)

Sampling Date: 07/14/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: BH 06C 3' (H233673-12)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/20/2023	ND	1.98	98.9	2.00	5.02	
Toluene*	<0.050	0.050	07/20/2023	ND	1.91	95.3	2.00	3.80	
Ethylbenzene*	<0.050	0.050	07/20/2023	ND	1.89	94.3	2.00	4.62	
Total Xylenes*	<0.150	0.150	07/20/2023	ND	6.09	101	6.00	5.63	
Total BTX	<0.300	0.300	07/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/18/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2023	ND	158	79.2	200	29.5	
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	233	117	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					

Surrogate: 1-Chlorooctane 81.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.8 % 49.1-148

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Analytical Results For:

ENSOLUM
KALEI JENNINGS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/17/2023	Sampling Date:	07/14/2023
Reported:	07/21/2023	Sampling Type:	Soil
Project Name:	ENCORE M STATE #8	Sampling Condition:	Cool & Intact
Project Number:	03D2057085	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK (32.3764878 - 103.1988662)		

Sample ID: BH 07 0.5' (H233673-13)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/20/2023	ND	1.98	98.9	2.00	5.02		
Toluene*	<0.050	0.050	07/20/2023	ND	1.91	95.3	2.00	3.80		
Ethylbenzene*	<0.050	0.050	07/20/2023	ND	1.89	94.3	2.00	4.62		
Total Xylenes*	<0.150	0.150	07/20/2023	ND	6.09	101	6.00	5.63		
Total BTEx	<0.300	0.300	07/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1070	16.0	07/18/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2023	ND	158	79.2	200	29.5	
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	233	117	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					

Surrogate: 1-Chlorooctane 75.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.7 % 49.1-148

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Analytical Results For:

ENSOLUM
KALEI JENNINGS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 07/17/2023
Reported: 07/21/2023
Project Name: ENCORE M STATE #8
Project Number: 03D2057085
Project Location: MAVERICK (32.3764878 - 103.1988662)

Sampling Date: 07/14/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: BH 07A 1' (H233673-14)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/20/2023	ND	1.98	98.9	2.00	5.02		
Toluene*	<0.050	0.050	07/20/2023	ND	1.91	95.3	2.00	3.80		
Ethylbenzene*	<0.050	0.050	07/20/2023	ND	1.89	94.3	2.00	4.62		
Total Xylenes*	<0.150	0.150	07/20/2023	ND	6.09	101	6.00	5.63		
Total BTX	<0.300	0.300	07/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	07/18/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2023	ND	158	79.2	200	29.5	
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	233	117	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					

Surrogate: 1-Chlorooctane 80.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.4 % 49.1-148

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Analytical Results For:

ENSOLUM
KALEI JENNINGS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/17/2023	Sampling Date:	07/14/2023
Reported:	07/21/2023	Sampling Type:	Soil
Project Name:	ENCORE M STATE #8	Sampling Condition:	Cool & Intact
Project Number:	03D2057085	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK (32.3764878 - 103.1988662)		

Sample ID: BH 08 0.5' (H233673-15)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/20/2023	ND	1.98	98.9	2.00	5.02		
Toluene*	<0.050	0.050	07/20/2023	ND	1.91	95.3	2.00	3.80		
Ethylbenzene*	<0.050	0.050	07/20/2023	ND	1.89	94.3	2.00	4.62		
Total Xylenes*	<0.150	0.150	07/20/2023	ND	6.09	101	6.00	5.63		
Total BTEx	<0.300	0.300	07/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/18/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2023	ND	158	79.2	200	29.5	
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	233	117	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					

Surrogate: 1-Chlorooctane 81.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.6 % 49.1-148

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Analytical Results For:

ENSOLUM
KALEI JENNINGS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 07/17/2023
Reported: 07/21/2023
Project Name: ENCORE M STATE #8
Project Number: 03D2057085
Project Location: MAVERICK (32.3764878 - 103.1988662)

Sampling Date: 07/14/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: BH 08A 1' (H233673-16)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/20/2023	ND	1.98	98.9	2.00	5.02		
Toluene*	<0.050	0.050	07/20/2023	ND	1.91	95.3	2.00	3.80		
Ethylbenzene*	<0.050	0.050	07/20/2023	ND	1.89	94.3	2.00	4.62		
Total Xylenes*	<0.150	0.150	07/20/2023	ND	6.09	101	6.00	5.63		
Total BTEx	<0.300	0.300	07/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/18/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2023	ND	158	79.2	200	29.5	
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	233	117	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					

Surrogate: 1-Chlorooctane 79.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 49.1-148

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Analytical Results For:

ENSOLUM
KALEI JENNINGS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 07/17/2023
Reported: 07/21/2023
Project Name: ENCORE M STATE #8
Project Number: 03D2057085
Project Location: MAVERICK (32.3764878 - 103.1988662)

Sampling Date: 07/14/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: BH 09 0.5' (H233673-17)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/20/2023	ND	1.98	98.9	2.00	5.02		
Toluene*	<0.050	0.050	07/20/2023	ND	1.91	95.3	2.00	3.80		
Ethylbenzene*	<0.050	0.050	07/20/2023	ND	1.89	94.3	2.00	4.62		
Total Xylenes*	<0.150	0.150	07/20/2023	ND	6.09	101	6.00	5.63		
Total BTEx	<0.300	0.300	07/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/18/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2023	ND	158	79.2	200	29.5	
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	233	117	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					

Surrogate: 1-Chlorooctane 79.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.5 % 49.1-148

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Analytical Results For:

ENSOLUM
KALEI JENNINGS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/17/2023	Sampling Date:	07/14/2023
Reported:	07/21/2023	Sampling Type:	Soil
Project Name:	ENCORE M STATE #8	Sampling Condition:	Cool & Intact
Project Number:	03D2057085	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK (32.3764878 - 103.1988662)		

Sample ID: BH 09A 1.5' (H233673-18)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/20/2023	ND	1.98	98.9	2.00	5.02	
Toluene*	<0.050	0.050	07/20/2023	ND	1.91	95.3	2.00	3.80	
Ethylbenzene*	<0.050	0.050	07/20/2023	ND	1.89	94.3	2.00	4.62	
Total Xylenes*	<0.150	0.150	07/20/2023	ND	6.09	101	6.00	5.63	
Total BTX	<0.300	0.300	07/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/18/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2023	ND	158	79.2	200	29.5	
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	233	117	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					

Surrogate: 1-Chlorooctane 99.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC				BILL TO				ANALYSIS REQUEST																			
Project Manager: Kalei Jennings				P.O. #:																							
Address: 3122 National Parks Hwy				Company: Ensolum LLC																							
City: Carlsbad		State: NM		Zip: 88220		Attn: Kalei Jennings																					
Phone #: 817-683-2503		Fax #:		Address:																							
Project #: 03D2057085		Project Owner:		City:																							
Project Name: Encore M State #8				State: Texas Zip:																							
Project Location: 32.3764878, -103.1988662				Phone #:																							
Sampler Name: Ronni Hayes				Fax #:																							
FOR LAB USE ONLY																											
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	MATRIX						PRESERV.	SAMPLING																
			# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	BTEX	TPH	Cr										
H233673																											
1	BH01	0.5'	G			X					X		7/14/23	1403	X	X	X										
2	BH01B	2'												1416													
3	BH02	0.5'												1428													
4	BH02B	2'												1443													
5	BH03	0.5'												1448													
6	BH03C	3'												1512													
7	BH04	0.5'												1243													
8	BH04D	3'												1354													
9	BH05	0.5'												1237													
10	BH05C	2'												1319													

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Relinquished By:	Date: 7-17-23	Received By:	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 1317		All Results are emailed. Please provide Email address:	
Relinquished By:	Date:	Received By:	REMARKS: Kjennings@ensolum.com	
	Time:			
Delivered By: (Circle One)	Observed Temp. °C 21	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	CHECKED BY: (Initials)	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>
Sampler - UPS - Bus - Other:	Corrected Temp. °C	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Bacteria (only) Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>
		<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No
				Observed Temp. °C
				Corrected Temp. °C

FORM-006 R 3.2 10/07/21

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

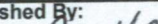
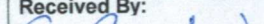



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: 		Date: 7-17-23	Received By: 	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:
Relinquished By:		Date: 7/17	Received By:	All Results are emailed. Please provide Email address: Kjennings@ensolum.com
Relinquished By:		Date:	Received By:	REMARKS:
Delivered By: (Circle One)		Observed Temp. °C 21	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>
Sampler - UPS - Bus - Other:		Corrected Temp. °C	CHECKED BY: (Initials) 	Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No
				Thermometer ID #113 H140 Correction Factor -0.5°C T. 7/17/23

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



APPENDIX E

NMOCD Notifications

From: [Enviro, OCD, EMNRD](#)
To: [Kalei Jennings](#)
Cc: [Bratcher, Michael, EMNRD](#); [Velez, Nelson, EMNRD](#)
Subject: RE: [EXTERNAL] Maverick- Sampling Notification (Week of 7/10/2023)
Date: Monday, July 10, 2023 8:31:06 AM
Attachments: [image005.jpg](#)
[image006.png](#)
[image007.png](#)
[image008.png](#)
[image009.png](#)

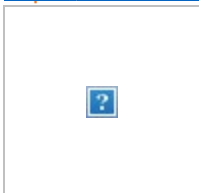
[**EXTERNAL EMAIL**]

Kalei,

Notification requirements are **two business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to ensure inclusion in the project file.

JH

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



From: Kalei Jennings <kjennings@ensolum.com>
Sent: Friday, July 7, 2023 4:14 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Aimee Cole <acole@ensolum.com>
Subject: [EXTERNAL] Maverick- Sampling Notification (Week of 7/10/2023)

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

All,

Maverick Permian, LLC plans to complete sampling activities at the following site the week of July 10, 2023.

- MCA 204 / NAPP2311751602
 - Sampling Date: 7/10/2023 through 07/13/2023

- State F TG #001 / NAPP2233947938
 - Sampling Date: 7/12/2023 & 7/13/2023
- MCA 409 Flowline / NAPP2318846991
 - Sampling Date: 7/13/2023
- Encore M State #8 / NAPP2316640406
 - Sampling Date: 7/14/2023
- SEMU 37 / NAPP2316638385
 - Sampling Date: 7/14/2023

Thank you,



Kalei Jennings

Senior Scientist

817-683-2503

Ensolum, LLC





APPENDIX F
Form C-141

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	NAPP2316640406
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Maverick Permian, LLC	OGRID: 331199
Contact Name: Bryce Wagoner	Contact Telephone: 928-241-1862
Contact email: Bryce.Wagoner@mavresources.com	Incident # (assigned by OCD)
Contact mailing address: 1410 NW County Road Hobbs, NM 88240	

Location of Release Source

Latitude 32.3764878 _____ Longitude -103.1988662 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Encore M State #8	Site Type
Date Release Discovered: 05/31/2023	API# (if applicable): 30-025-40721

Unit Letter	Section	Township	Range	County
J	19	22S	37E	Lea

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

Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls): 0.5 bbl	Volume Recovered (bbls): 0
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls): 11 bbls	Volume Recovered (bbls): 5 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release:

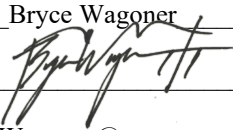
The release was caused by a mechanical failure, resulting in fluids being released from the wellhead. The release occurred on pad.
The source of the release has been stopped, and the impacted area has been secured.

Incident ID	NAPP2316640406
District RP	
Facility ID	
Application ID	

<p>Was this a major release as defined by 19.15.29.7(A) NMAC?</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>If YES, for what reason(s) does the responsible party consider this a major release?</p>
<p>If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?</p>	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Bryce Wagoner</u>	Title: <u>Permian HSE Specialist II</u>
Signature: 	Date: <u>06/14/2023</u>
email: <u>Bryce.Wagoner@mavresources.com</u>	Telephone: <u>928-241-1862</u>
<u>OCD Only</u>	
Received by: _____	Date: _____

Incident ID	NAPP2316640406
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u> >51 </u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

NAPP2316640406

Pooled Fluids on the Surface										
	Length (ft.)	Width (ft.)	Depth (in)	# of Boundaries <i>*edges of pool where depth is 0. don't count shared boundaries</i>	Oil-Water Ratio (%)	Pooled Area (ft ²)	Estimated Average Depth (ft.)	Pooled Volume (bbl.)	Volume of Oil in Subsurface (bbl.)	Volume of Water in Subsurface (bbl.)
Rectangle A					0.01	0.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle B					0.01	0.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle C						0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle D						0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle E						0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Total Volume (bbls):								0.00	0.00	0.00

Subsurface Fluids										
	Length (ft.)	Width (ft.)	Depth (in.)	Saturation (%) <i>*10% in consolidated sediments after rain to 50% in sand with no precipitation</i>	Oil-Water Ratio (%)	Area (ft ²)	Volume (bbl.)	Estimated Volume in Subsurface (bbl.)	Volume of Water in Subsurface (bbl.)	Volume of Oil in Subsurface (bbl.)
Rectangle A	60.0	48.0	2.0	0.1	1.00	2880.0	85.4	6.8	6.84	0.0
Rectangle B	42.0	21.0	3.5	0.1	1.00	882.0	45.8	4.6	4.58	0.0
Rectangle C				0.1	0.01	0.0	0.0	0.0	0.00	0.0
Rectangle D				0.1	0.01	0.0	0.0	0.0	0.00	0.0
Rectangle E				0.1	0.01	0.0	0.0	0.0	0.00	0.0
Rectangle F						0.0	0.0	0.0	0.00	0.0
Rectangle G						0.0	0.0	0.0	0.00	0.0
Rectangle H						0.0	0.0	0.0	0.00	0.0
Rectangle I						0.0	0.0	0.0	0.00	0.0
Rectangle J						0.0	0.0	0.0	0.00	0.0
Total Volume (bbls):								11.41	11.41	0.00

TOTAL RELEASE VOLUME (bbls):	11.4
-------------------------------------	-------------

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	NAPP2316640406
District RP	
Facility ID	
Application ID	

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

Printed Name: Bryce Wagoner Title: Permian HSE Specialist II

Signature:

Date: 08/07/2023

email: Bryce.Wagoner@mavresources.com Telephone: 928-241-1862

OCD Only

Received by: Shelly Wells Date: 8/11/2023

Incident ID	NAPP2316640406
District RP	
Facility ID	
Application ID	

Closure

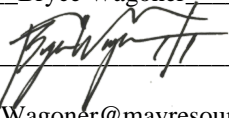
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled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

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

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

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

Printed Name: Bryce Wagoner Title: Permian HSE Specialist II

Signature:  Date: 08/07/2023

email: Bryce.Wagoner@mavresources.com Telephone: 928-241-1862

OCD Only

Received by: Shelly Wells Date: 8/11/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Nelson Velez Date: 11/28/2023

Printed Name: Nelson Velez Title: Environmental Specialist - Adv

Remediation has met 19.15.29 NMAC requirements. Soil impacts exceeding the reclamation standards have been left in place and are required to meet 19.15.29.13D (1) NMAC once the site is no longer reasonably needed for production or subsequent drilling operations.

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

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

CONDITIONS

Action 250703

CONDITIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 250703
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Remediation has met 19.15.29 NMAC requirements. Soil impacts exceeding the reclamation standards have been left in place and are required to meet 19.15.29.13D (1) NMAC once the site is no longer reasonably needed for production or subsequent drilling operations.	11/28/2023