



October 26, 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
MCA #1 South Transfer Line
Incident Number NAPP2314650185
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, excavation, and soil sampling activities performed at the MCA #1 South Transfer Line (Site). The purpose of the assessment, excavation, and soil sampling activities was to address impacts to soil resulting from a release of produced water at the Site. Based on the excavation activities and laboratory analytical results from the soil sampling events, Maverick is submitting this *Closure Request*, describing remediation that has occurred and requesting closure for Incident Number NAPP2314650185.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit B, Section 29, Township 17 South, Range 32 East, in Lea County, New Mexico (32.811916° N, -103.786502° W) and is associated with oil and gas exploration and production operations on Federal Land managed by Bureau of Land Management (BLM).

On May 26, 2023, a damaged produced water transfer line resulted in the release of approximately 12 barrels (bbls) of produced water onto the surrounding pasture. No fluids were recovered; however, the saturated surface soil was scraped up during initial spill response activities. Maverick reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on June 5, 2023. The release was assigned Incident Number NAPP2314650185.

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 New Mexico Administrative Code (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 106 feet below ground surface (bgs) based on the nearest groundwater well data. The closest groundwater well/soil boring with depth to groundwater data is soil boring DTW 01, located approximately 0.35 miles northwest of the Site. The soil boring was drilled during August 2023 to a depth of 106 feet bgs. A field geologist logged and

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described soil continuously. The borehole lithologic log is included in Appendix A. No groundwater was encountered in the borehole to a depth of 106 feet bgs. The borehole was left open for over 72 hours to allow for potential infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater is greater than 106 feet bgs. The borehole was properly abandoned using hydrated bentonite chips. All wells used for depth to groundwater determination are presented on Figure 1.

The closest continuously flowing or significant watercourse is greater than 300 feet from 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 I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the pasture area that was impacted by the release, per 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be reclaimed following remediation.

SITE ASSESSMENT ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Site assessment activities were conducted at the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Four assessment soil samples (SS01 through SS04) were collected around the visible release extent at a depth of 0.5 feet bgs 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.

The assessment 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 at or below 4 degrees Celsius (°C) under strict chain-of-custody procedures to Cardinal Laboratories for analysis of the following constituents of concern (COC): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method 4500.

Laboratory analytical results for assessment soil samples SS01 through SS04, collected around the release extent, indicated that all COC concentrations were compliant with the most stringent Table I Closure Criteria and confirmed the lateral extent of the release. Based on visible staining in the release area, delineation and excavation activities were warranted.

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EXCAVATION AND DELINEATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Between September 26, 2023 and September 28, 2023, Ensolum personnel were at the Site to oversee excavation of impacted soil as indicated by visible staining in the release area. To direct excavation activities, soil was field screened for VOCs and chloride. Excavation activities were performed using a track-mounted backhoe and transport vehicles. The excavation was completed to depths ranging from 2 feet to 8 feet bgs.

Following removal of impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor and sidewalls of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS07 were collected from the floor of the excavation at depths ranging from 2 feet to 8 feet bgs. Composite soil samples SW01 through SW04 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 8 feet bgs. The excavation soil samples were handled and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations were mapped utilizing a handheld GPS and are presented on Figure 3. Photographic documentation was completed during the Site visits and a photographic log is included in Appendix B.

Two potholes (PH01 and PH02) were advanced within the open excavation to depths ranging from 13 feet to 21 feet bgs. Soil from the potholes was field screened at 1-foot intervals for VOCs and chloride. Final depth of the potholes was determined by field screening results indicating compliance with the most stringent Table I Closure Criteria. Field screening results and observations for the potholes were logged on lithologic soil sampling logs, which are included in Appendix C. Discrete delineation samples were selected from each pothole for laboratory analysis; the sample with the highest field screening result and the sample from the final pothole depth. The pothole and delineation soil sample locations are presented on Figure 2. The excavation and delineation soil samples were handled following the same procedures as described above and submitted to Cardinal Laboratories for analysis of BTEX, TPH, and chloride.

Laboratory analytical results for excavation floor samples FS01 through FS07 and excavation sidewall samples SW01 through SW04, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria and reclamation requirements for samples collected in the top four feet.

Laboratory analytical results for the delineation samples collected from potholes PH01 and PH02 indicated all COC concentrations were compliant with the Site Closure Criteria. Additionally, the final depth delineation sample from each pothole, collected at depths of 13 feet and 21 feet bgs, was compliant with the most stringent Table I Closure Criteria and provided vertical delineation of the release. Laboratory analytical results are summarized on Table 1 and the complete laboratory analytical reports are included as Appendix D.

The excavation measured approximately 835 square feet in areal extent. A total of approximately 350 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Disposal Facility located in Hobbs, New Mexico. After completion of confirmation sampling, the excavation was secured with fencing.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the May 26, 2023, release of produced water. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure

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Criteria and reclamation requirements, where applicable. Additionally, the release was laterally and vertically delineated to below the most stringent Table I Closure Criteria. Based on the laboratory analytical results, no further remediation is required. Maverick will backfill the excavation with material purchased locally and recontour the Site to match pre-existing conditions.

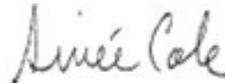
Initial response efforts and excavation of impacted soil have mitigated impacts at this Site. Depth to groundwater has been determined to be greater than 100 feet bgs within 0.5 miles of the Site and no sensitive receptors were identified near the release extent. Maverick believes the remedial actions completed are protective of human health, the environment, and groundwater and respectfully requests closure for Incident NAPP2314650185. NMOCD notifications are included in Appendix E and the final Form C-141 is included in 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

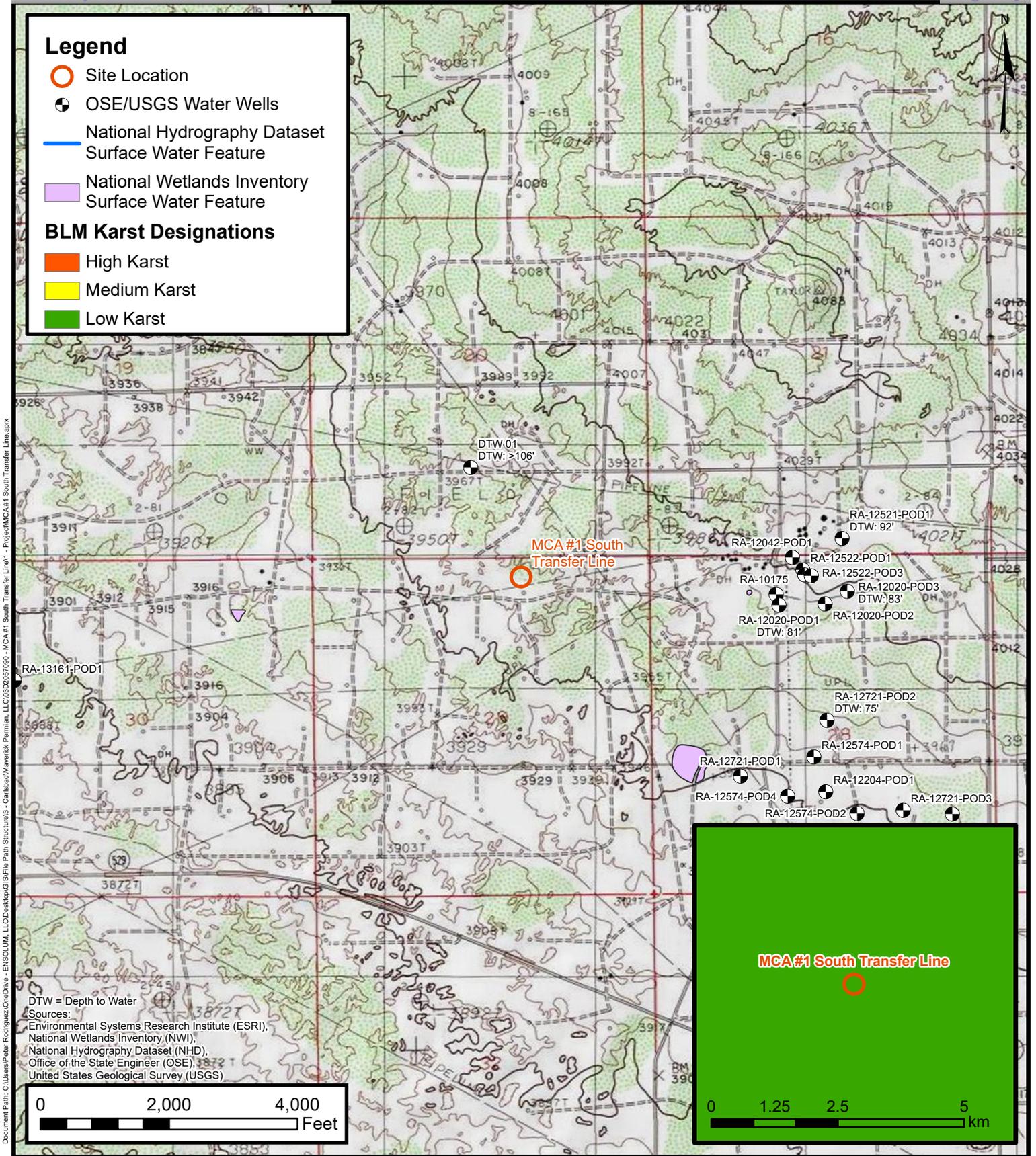
cc: Bryce Wagoner, Maverick Natural Resources
Bureau of Land Management

Appendices:

- Figure 1 Site Receptor Map
- Figure 2 Assessment and Delineation Soil Sample Locations
- Figure 3 Excavation 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



Document Path: C:\Users\Peter.Rodriguez\OneDrive - ENSOLUM, LLC\Desktop\GIS\Map\Structure3 - Canabach\Maverick Permian, LLC\030202057080 - MCA #1 South Transfer Line.aprx



Site Receptor Map

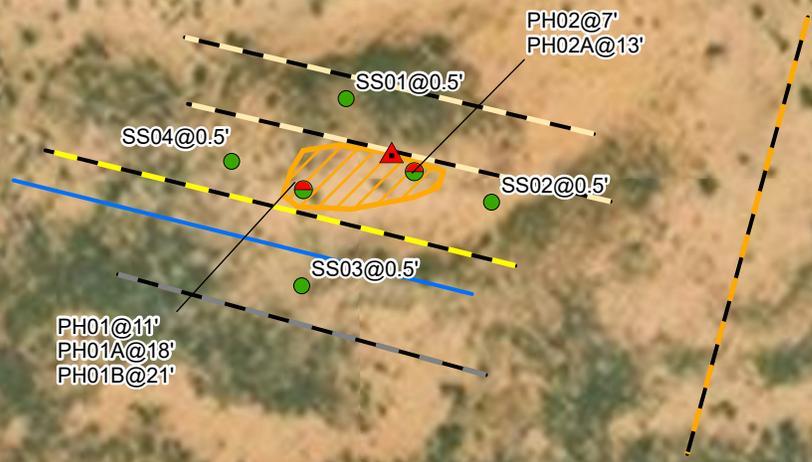
Maverick Permian, LLC
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Incident Number: NAPP2314650185
Unit B, Sec 29, T17S, R32E
Lea County, New Mexico

FIGURE
1

Document Path: C:\Users\Peter.Rodriguez\OneDrive - ENSOLUM, LLC\Desktop\GIS\Map\Structure3 - Canshad\Maverick Permian, LLC\0302057089 - MCA #1 South Transfer Line.aprx

Legend

- Release Point
- Soil Sample in Compliance with Closure Criteria
- Terminus Soil Sample in Compliance with Closure Criteria
- Utility Line
- Oil and Gas Utility Line
- Produced Water Line
- Oil and Gas Utility Line
- Subsurface Fiberglass Line
- Release Extent



Notes:
Sample ID @ Depth Below Ground Surface



Source: Bing Maps

Assessment & Delineation Soil Sample Locations

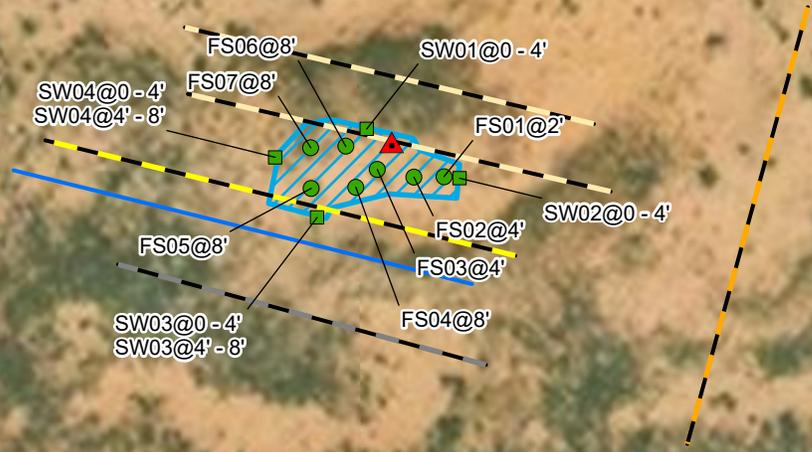
Maverick Permian, LLC
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Unit B, Sec 29, T17S, R32E
Lea County, New Mexico

FIGURE
2

Document Path: C:\Users\Peter.Rodriguez\OneDrive - ENSOLUM, LLC\Desktop\GIS\Map Path Structure3 - Candbad\Maverick Permian, LLC\0302057089 - MCA #1 South Transfer Line.aprx

Legend

-  Release Point
-  Excavation Floor Sample in Compliance with Closure Criteria
-  Excavation Sidewall Soil Sample in Compliance with Closure Criteria
-  Buried Pipe
-  Oil and Gas Utility Line
-  Produced Water Line
-  Oil and Gas Utility Line
-  Subsurface Fiberglass Line
-  Excavation Extent



Notes:
Sample ID @ Depth Below Ground/Surface



Source:
Bing Maps

Excavation Soil Sample Locations

Maverick Permian, LLC
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Lea County, New Mexico

FIGURE
3





TABLES



**TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS**
MCA #1 South Transfer Line
Maverick Permian, LLC
Lea County, New Mexico

Sample I.D.	Sample Date	Sample 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 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Assessment Soil Samples										
SS01	09/21/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS02	09/21/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS03	09/21/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS04	09/21/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
Delineation Soil Samples										
PH01	10/13/2023	11	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	9,330
PH01A	10/13/2023	18	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,800
PH01B	10/13/2023	21	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
PH02	10/13/2023	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	10,700
PH02A	10/13/2023	13	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
Excavation Floor Soil Samples										
FS01*	09/26/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
FS02	09/26/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,080
FS03	09/26/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	416
FS04	09/28/2023	8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	14,000
FS05	09/28/2023	8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	12,000
FS06	09/28/2023	8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	13,600
FS07	09/28/2023	8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	13,200
Excavation Sidewall Soil Samples										
SW01*	09/26/2023	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SW02*	09/26/2023	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW03*	09/26/2023	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW03	09/28/2023	4-8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW04*	09/27/2023	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
SW04	09/28/2023	4-8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0

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

Concentrations in **bold** exceed the NMOCD Table 1 Closure Criteria or reclamation standard where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Grey text represents samples that have been excavated

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



APPENDIX A

Referenced Well Records

							Sample Name: DTW 01		Date: 08/28/2023	
							Site Name: MCA 266			
							Incident Number: NAPP2213642290			
							Job Number: 03D2057011			
LITHOLOGIC / SOIL SAMPLING LOG							Logged By: Julianna Falcomata		Method: Hollow Stem	
32.816600, -103.789057							Hole Diameter: 5"		Total Depth: 106'	
Comments: Soil boring was advanced to a total depth of 106' bgs. No water was observed within the soil boring after at least 72 hours. On 09/08/2023 the soil boring was plugged and abandoned using hydrated bentonite chips.										
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions		
Dry	-	-	N	-	-	10	SP-SM	(10') SAND: fine grained silty sand, poorly graded, tan to medium brown, non plastic, non cohesive, no odor.		
Dry	-	-	N	-	-	20	SP-SM	(20') SAND: fine grained silty sand, trace amounts small gravel, poorly graded, tan to reddish brown, non plastic, non cohesive, no odor.		
Dry	-	-	N	-	-	30	SP-SM	(30') SAND: fine grained silty sand, moderate amounts small to medium gravel, poorly graded, reddish brown, non plastic, non cohesive, no		
Dry	-	-	N	-	-	40	SP-SM	(40') SAND: SAA with trace amounts of CHT like material		
Dry	-	-	N	-	-	50	SP-SM	(50') SAND: fine grained silty sand, trace amounts small gravel, poorly graded, reddish brown, non plastic, non cohesive, no odor.		
Dry	-	-	N	-	-	60	SP-SM	(60') SAND: fine grained silty sand, trace amounts small gravel, poorly graded, medium brown, non plastic, non cohesive, no odor.		
Dry	-	-	N	-	-	70	SP-SM	(70') SAND: fine grained silty sand, trace amounts small gravel, poorly graded, medium brown to dark grey, non plastic, non cohesive, no odor.		
Dry	-	-	N	-	-	80	GP-GM	(80') GRAVEL: medium grained, trace amount silty sand, poorly graded, dark grey to light grey, non plastic, non cohesive, no odor.		
Dry	-	-	N	-	-	90	GP-GM	(90') GRAVEL: medium grained, trace amount silty sand, poorly graded, light grey to medium brown, non plastic, non cohesive, no odor.		
Dry	-	-	N	-	-	100	SP-SM	(100') SAND: fine grained, trace amount small to medium gravel, poorly graded, medium brown, non plastic, non cohesive, no odor.		
Dry	-	-	N	-	-	106	SP-SM	(106') SAND: fine grained, trace amount small to medium gravel, poorly graded, dark brown, non plastic, non cohesive, no odor.		
							Total Depth @ 106 feet bgs			

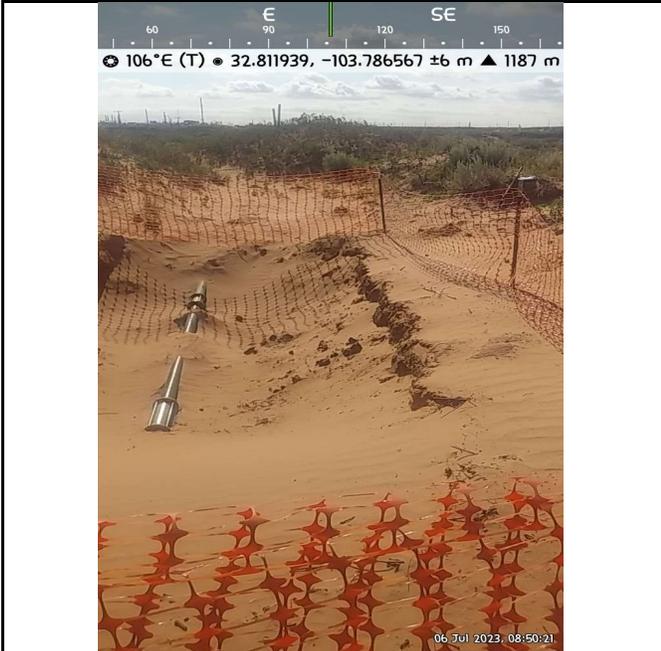


APPENDIX B

Photographic Log

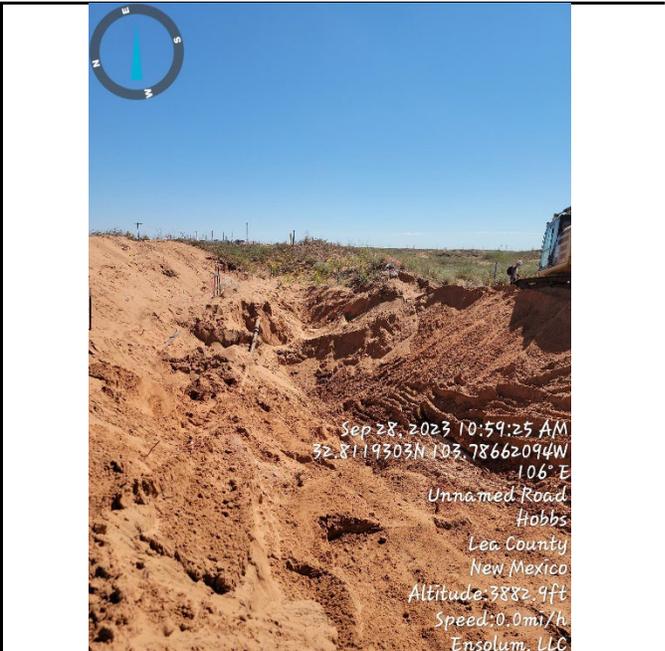


Photographic Log
 Maverick Permian, LLC
 MCA #1 South Transfer Line
 NAPP2314650185



Photograph 1 Date: 7/6/2023
 Description: Impacted soil within release
 View: East

Photograph 2 Date: 9/25/2023
 Description: Excavation activities
 View: West



Photograph 3 Date: 9/28/2023
 Description: Completed excavation
 View: Southwest

Photograph 4 Date: 9/28/2023
 Description: Completed excavation
 View: East



APPENDIX C

Lithologic Soil Sampling Logs

								Sample Name: PH01		Date: 10/13/2023	
								Site Name: MCA #1 South Transer Line			
								Incident Number: NAPP2314650185			
								Job Number: 03D2057090			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: J.Falcomata		Method: Excavator	
Coordinates: (32.811957, -103.786522)								Hole Diameter:		Total Depth: 21'	
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			
Open excavation from 0-8'											
Dry	7,560	0.0	N	-	-	8	GW-GM	(8') GRAVEL: medium to fine grained, moderate amounts silty sand, well graded, tan to reddish brown, no odor, non plastic, non cohesive.			
Dry	18,093	0.0	N	PH01	11	11	GW-GM	(11') GRAVEL: medium to fine grained, trace amounts silty sand, poorly graded, tan to light brown, no odor, non plastic, non cohesive.			
Dry	10,281	0.9	N	-	-	13	GW-GM	(13') GRAVEL: medium grained, trace amounts silty sand, poorly graded, tan, no odor, non plastic, non cohesive.			
Dry	1,621	0.0	N	-	-	16	GW-GM	(16') GRAVEL: medium to fine grained, moderate amounts silty sand, well graded, tan to reddish brown, no odor, non plastic, non cohesive.			
Dry	12,986	0.0	N	PH01A	18	18	GW-GM	(18') SAA.			
Dry	3,246	0.0	N	-	-	19	GW-GM	(19') SAA.			
Dry	<168	0.0	N	PH01B	21	21	SW-SC	medium sized gravel and clay, well graded, medium brown to reddish brown, no odor, medium cohesiveness, medium plasticity.			
TD @ 21' bgs											

								Sample Name: PH02		Date: 10/13/2023	
								Site Name: MCA #1 South Transer Line			
								Incident Number: NAPP2314650185			
								Job Number: 03D2057090			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: J.Falcomata		Method: Excavator	
Coordinates: (32.811964, -103.786421)								Hole Diameter:		Total Depth: 13'	
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			
Open excavation from 0-4'											
Dry	6,764	0.0	N	PH02	7	7	SP-SM	(7') SAND: fine grained, trace amounts medium sized gravel, poorly graded, reddish brown, no odor, non plastic, non cohesive.			
Dry	3,421	0.0	N	-	-	10	GP-GC	(10') GRAVEL: medium grained to fine grained, trace amounts silty sand and clay, poorly graded, tan - reddish brown, no odor, moderate plasticity, non cohesive.			
Dry	<168	0.0	N	PH02A	13	13	GP-GC	(13') GRAVEL: medium grained to fine grained, trace amounts silty sand and clay, poorly graded, tan - reddish brown, no odor, moderate plasticity, moderately cohesive.			
TD @ 13' bgs											



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



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

September 27, 2023

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MCA 1 SOUTH TRANSFER LINE

Enclosed are the results of analyses for samples received by the laboratory on 09/22/23 12:57.

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".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	09/22/2023	Sampling Date:	09/21/2023
Reported:	09/27/2023	Sampling Type:	Soil
Project Name:	MCA 1 SOUTH TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	03D2057085	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK 32.81196,-103.786502		

Sample ID: SS 01 @ .5' (H235171-01)

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	09/25/2023	ND	1.95	97.5	2.00	4.14	
Toluene*	<0.050	0.050	09/25/2023	ND	2.05	102	2.00	5.37	
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	2.20	110	2.00	4.94	
Total Xylenes*	<0.150	0.150	09/25/2023	ND	6.00	100	6.00	5.19	
Total BTEX	<0.300	0.300	09/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	32.0	16.0	09/25/2023	ND	432	108	400	3.64	

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	09/25/2023	ND	189	94.3	200	3.12	
DRO >C10-C28*	<10.0	10.0	09/25/2023	ND	204	102	200	0.0900	
EXT DRO >C28-C36	<10.0	10.0	09/25/2023	ND					

Surrogate: 1-Chlorooctane 73.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.9 % 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
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	09/22/2023	Sampling Date:	09/21/2023
Reported:	09/27/2023	Sampling Type:	Soil
Project Name:	MCA 1 SOUTH TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	03D2057085	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK 32.81196,-103.786502		

Sample ID: SS 02 @ .5' (H235171-02)

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	09/25/2023	ND	1.95	97.5	2.00	4.14	
Toluene*	<0.050	0.050	09/25/2023	ND	2.05	102	2.00	5.37	
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	2.20	110	2.00	4.94	
Total Xylenes*	<0.150	0.150	09/25/2023	ND	6.00	100	6.00	5.19	
Total BTEX	<0.300	0.300	09/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	09/25/2023	ND	432	108	400	3.64	

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	09/25/2023	ND	189	94.3	200	3.12	
DRO >C10-C28*	<10.0	10.0	09/25/2023	ND	204	102	200	0.0900	
EXT DRO >C28-C36	<10.0	10.0	09/25/2023	ND					

Surrogate: 1-Chlorooctane 81.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	09/22/2023	Sampling Date:	09/21/2023
Reported:	09/27/2023	Sampling Type:	Soil
Project Name:	MCA 1 SOUTH TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	03D2057085	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK 32.81196,-103.786502		

Sample ID: SS 03 @ .5' (H235171-03)

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	09/25/2023	ND	1.95	97.5	2.00	4.14	
Toluene*	<0.050	0.050	09/25/2023	ND	2.05	102	2.00	5.37	
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	2.20	110	2.00	4.94	
Total Xylenes*	<0.150	0.150	09/25/2023	ND	6.00	100	6.00	5.19	
Total BTEX	<0.300	0.300	09/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	09/25/2023	ND	432	108	400	3.64	

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	09/25/2023	ND	189	94.3	200	3.12	
DRO >C10-C28*	<10.0	10.0	09/25/2023	ND	204	102	200	0.0900	
EXT DRO >C28-C36	<10.0	10.0	09/25/2023	ND					

Surrogate: 1-Chlorooctane 78.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.2 % 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
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	09/22/2023	Sampling Date:	09/21/2023
Reported:	09/27/2023	Sampling Type:	Soil
Project Name:	MCA 1 SOUTH TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	03D2057085	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK 32.81196,-103.786502		

Sample ID: SS 04 @ .5' (H235171-04)

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	09/25/2023	ND	1.95	97.5	2.00	4.14	
Toluene*	<0.050	0.050	09/25/2023	ND	2.05	102	2.00	5.37	
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	2.20	110	2.00	4.94	
Total Xylenes*	<0.150	0.150	09/25/2023	ND	6.00	100	6.00	5.19	
Total BTEX	<0.300	0.300	09/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	09/25/2023	ND	432	108	400	3.64	

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	09/25/2023	ND	189	94.3	200	3.12	
DRO >C10-C28*	<10.0	10.0	09/25/2023	ND	204	102	200	0.0900	
EXT DRO >C28-C36	<10.0	10.0	09/25/2023	ND					

Surrogate: 1-Chlorooctane 96.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: ENSOLUM, LLC
Project Manager: Aimee Cole
Address: 3122 Nat'l Parks Hwy
City: Carlsbad State: NM Zip: 88220
Phone #: 720-584-1365 Fax #: -
Project #: 0302057085 Project Owner: Maverick
Project Name: (32.81196, -103.786502)
Project Location: MEA 1 SOUTH Transfer Line
Sampler Name: Juliana Falconator

Table with columns: Lab I.D., Sample I.D., MATRIX (GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER), PRESERV., SAMPLING (DATE, TIME), and analysis results for BTEX, TPH, and Chlorides.

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Relinquished By: [Signature] Date: 9/21/23 Time: 12:57
Received By: [Signature] Date: [Blank] Time: [Blank]
Verbal Result: [X] Yes [] No Add'l Phone #: [Blank]
Email address: people@ensolum.com; falcomata@ensolum.com
REMARKS: AAPP2314650185
Turnaround Time: Standard [X] Rush []
Bacteria (only) Sample Condition Cool Intact Observed Temp. °C

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



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

October 04, 2023

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MCA 1 SOUTH TRANSFER LINE

Enclosed are the results of analyses for samples received by the laboratory on 09/28/23 14:05.

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".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	09/28/2023	Sampling Date:	09/26/2023
Reported:	10/04/2023	Sampling Type:	Soil
Project Name:	MCA 1 SOUTH TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	03D2057090	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.81196,-103.786502		

Sample ID: FS 01 2 (H235310-01)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2023	ND	1.82	91.1	2.00	4.73	
Toluene*	<0.050	0.050	09/30/2023	ND	1.83	91.3	2.00	5.28	
Ethylbenzene*	<0.050	0.050	09/30/2023	ND	1.91	95.6	2.00	4.43	
Total Xylenes*	<0.150	0.150	09/30/2023	ND	5.70	95.0	6.00	4.03	
Total BTEX	<0.300	0.300	09/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	336	16.0	09/29/2023	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	09/29/2023	ND	179	89.7	200	4.73	
DRO >C10-C28*	<10.0	10.0	09/29/2023	ND	192	96.1	200	2.71	
EXT DRO >C28-C36	<10.0	10.0	09/29/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 140 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	09/28/2023	Sampling Date:	09/26/2023
Reported:	10/04/2023	Sampling Type:	Soil
Project Name:	MCA 1 SOUTH TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	03D2057090	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.81196,-103.786502		

Sample ID: FS 02 4 (H235310-02)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2023	ND	1.82	91.1	2.00	4.73	
Toluene*	<0.050	0.050	09/30/2023	ND	1.83	91.3	2.00	5.28	
Ethylbenzene*	<0.050	0.050	09/30/2023	ND	1.91	95.6	2.00	4.43	
Total Xylenes*	<0.150	0.150	09/30/2023	ND	5.70	95.0	6.00	4.03	
Total BTEX	<0.300	0.300	09/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	3080	16.0	09/29/2023	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	09/29/2023	ND	179	89.7	200	4.73	
DRO >C10-C28*	<10.0	10.0	09/29/2023	ND	192	96.1	200	2.71	
EXT DRO >C28-C36	<10.0	10.0	09/29/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 137 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	09/28/2023	Sampling Date:	09/26/2023
Reported:	10/04/2023	Sampling Type:	Soil
Project Name:	MCA 1 SOUTH TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	03D2057090	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.81196,-103.786502		

Sample ID: FS 03 4 (H235310-03)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/30/2023	ND	1.82	91.1	2.00	4.73		
Toluene*	<0.050	0.050	09/30/2023	ND	1.83	91.3	2.00	5.28		
Ethylbenzene*	<0.050	0.050	09/30/2023	ND	1.91	95.6	2.00	4.43		
Total Xylenes*	<0.150	0.150	09/30/2023	ND	5.70	95.0	6.00	4.03		
Total BTEX	<0.300	0.300	09/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	416	16.0	09/29/2023	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	09/29/2023	ND	179	89.7	200	4.73		
DRO >C10-C28*	<10.0	10.0	09/29/2023	ND	192	96.1	200	2.71		
EXT DRO >C28-C36	<10.0	10.0	09/29/2023	ND						

Surrogate: 1-Chlorooctane 99.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	09/28/2023	Sampling Date:	09/26/2023
Reported:	10/04/2023	Sampling Type:	Soil
Project Name:	MCA 1 SOUTH TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	03D2057090	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.81196,-103.786502		

Sample ID: SW 01 0-4 (H235310-04)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2023	ND	1.82	91.1	2.00	4.73	
Toluene*	<0.050	0.050	09/30/2023	ND	1.83	91.3	2.00	5.28	
Ethylbenzene*	<0.050	0.050	09/30/2023	ND	1.91	95.6	2.00	4.43	
Total Xylenes*	<0.150	0.150	09/30/2023	ND	5.70	95.0	6.00	4.03	
Total BTEX	<0.300	0.300	09/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	144	16.0	09/29/2023	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	09/29/2023	ND	179	89.7	200	4.73	
DRO >C10-C28*	<10.0	10.0	09/29/2023	ND	192	96.1	200	2.71	
EXT DRO >C28-C36	<10.0	10.0	09/29/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 141 % 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
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	09/28/2023	Sampling Date:	09/26/2023
Reported:	10/04/2023	Sampling Type:	Soil
Project Name:	MCA 1 SOUTH TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	03D2057090	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.81196,-103.786502		

Sample ID: SW 02 0-4 (H235310-05)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2023	ND	1.82	91.1	2.00	4.73	
Toluene*	<0.050	0.050	09/30/2023	ND	1.83	91.3	2.00	5.28	
Ethylbenzene*	<0.050	0.050	09/30/2023	ND	1.91	95.6	2.00	4.43	
Total Xylenes*	<0.150	0.150	09/30/2023	ND	5.70	95.0	6.00	4.03	
Total BTEX	<0.300	0.300	09/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	09/29/2023	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	09/29/2023	ND	179	89.7	200	4.73	
DRO >C10-C28*	<10.0	10.0	09/29/2023	ND	192	96.1	200	2.71	
EXT DRO >C28-C36	<10.0	10.0	09/29/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 140 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	09/28/2023	Sampling Date:	09/26/2023
Reported:	10/04/2023	Sampling Type:	Soil
Project Name:	MCA 1 SOUTH TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	03D2057090	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.81196,-103.786502		

Sample ID: SW 03 0-4 (H235310-06)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2023	ND	1.82	91.1	2.00	4.73	
Toluene*	<0.050	0.050	09/30/2023	ND	1.83	91.3	2.00	5.28	
Ethylbenzene*	<0.050	0.050	09/30/2023	ND	1.91	95.6	2.00	4.43	
Total Xylenes*	<0.150	0.150	09/30/2023	ND	5.70	95.0	6.00	4.03	
Total BTEX	<0.300	0.300	09/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	09/29/2023	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	09/29/2023	ND	179	89.7	200	4.73	
DRO >C10-C28*	<10.0	10.0	09/29/2023	ND	192	96.1	200	2.71	
EXT DRO >C28-C36	<10.0	10.0	09/29/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 137 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	09/28/2023	Sampling Date:	09/27/2023
Reported:	10/04/2023	Sampling Type:	Soil
Project Name:	MCA 1 SOUTH TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	03D2057090	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.81196,-103.786502		

Sample ID: SW 04 0-4 (H235310-07)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2023	ND	1.82	91.1	2.00	4.73	
Toluene*	<0.050	0.050	09/30/2023	ND	1.83	91.3	2.00	5.28	
Ethylbenzene*	<0.050	0.050	09/30/2023	ND	1.91	95.6	2.00	4.43	
Total Xylenes*	<0.150	0.150	09/30/2023	ND	5.70	95.0	6.00	4.03	
Total BTEX	<0.300	0.300	09/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	304	16.0	09/29/2023	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	09/29/2023	ND	174	87.1	200	3.53	
DRO >C10-C28*	<10.0	10.0	09/29/2023	ND	177	88.5	200	0.893	
EXT DRO >C28-C36	<10.0	10.0	09/29/2023	ND					

Surrogate: 1-Chlorooctane 99.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

October 04, 2023

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MCA 1 SOUTH TRANSFER LINE

Enclosed are the results of analyses for samples received by the laboratory on 09/28/23 14:05.

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".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	09/28/2023	Sampling Date:	09/28/2023
Reported:	10/04/2023	Sampling Type:	Soil
Project Name:	MCA 1 SOUTH TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	03D2057090	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.81196,-103.786502		

Sample ID: FS 04 @ 8' (H235311-01)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2023	ND	1.82	91.1	2.00	4.73	
Toluene*	<0.050	0.050	09/30/2023	ND	1.83	91.3	2.00	5.28	
Ethylbenzene*	<0.050	0.050	09/30/2023	ND	1.91	95.6	2.00	4.43	
Total Xylenes*	<0.150	0.150	09/30/2023	ND	5.70	95.0	6.00	4.03	
Total BTEX	<0.300	0.300	09/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	14000	16.0	09/29/2023	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	09/29/2023	ND	174	87.1	200	3.53	
DRO >C10-C28*	<10.0	10.0	09/29/2023	ND	177	88.5	200	0.893	
EXT DRO >C28-C36	<10.0	10.0	09/29/2023	ND					

Surrogate: 1-Chlorooctane 99.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	09/28/2023	Sampling Date:	09/28/2023
Reported:	10/04/2023	Sampling Type:	Soil
Project Name:	MCA 1 SOUTH TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	03D2057090	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.81196,-103.786502		

Sample ID: FS 05 @ 8' (H235311-02)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2023	ND	1.82	91.1	2.00	4.73	
Toluene*	<0.050	0.050	09/30/2023	ND	1.83	91.3	2.00	5.28	
Ethylbenzene*	<0.050	0.050	09/30/2023	ND	1.91	95.6	2.00	4.43	
Total Xylenes*	<0.150	0.150	09/30/2023	ND	5.70	95.0	6.00	4.03	
Total BTEX	<0.300	0.300	09/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	12000	16.0	09/29/2023	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	09/29/2023	ND	174	87.1	200	3.53	
DRO >C10-C28*	<10.0	10.0	09/29/2023	ND	177	88.5	200	0.893	
EXT DRO >C28-C36	<10.0	10.0	09/29/2023	ND					

Surrogate: 1-Chlorooctane 98.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	09/28/2023	Sampling Date:	09/28/2023
Reported:	10/04/2023	Sampling Type:	Soil
Project Name:	MCA 1 SOUTH TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	03D2057090	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.81196,-103.786502		

Sample ID: FS 06 @ 8' (H235311-03)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2023	ND	1.82	91.1	2.00	4.73	
Toluene*	<0.050	0.050	09/30/2023	ND	1.83	91.3	2.00	5.28	
Ethylbenzene*	<0.050	0.050	09/30/2023	ND	1.91	95.6	2.00	4.43	
Total Xylenes*	<0.150	0.150	09/30/2023	ND	5.70	95.0	6.00	4.03	
Total BTEX	<0.300	0.300	09/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	13600	16.0	09/29/2023	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	09/29/2023	ND	174	87.1	200	3.53	
DRO >C10-C28*	<10.0	10.0	09/29/2023	ND	177	88.5	200	0.893	
EXT DRO >C28-C36	<10.0	10.0	09/29/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	09/28/2023	Sampling Date:	09/28/2023
Reported:	10/04/2023	Sampling Type:	Soil
Project Name:	MCA 1 SOUTH TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	03D2057090	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.81196,-103.786502		

Sample ID: FS 07 @ 8' (H235311-04)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2023	ND	1.82	91.1	2.00	4.73	
Toluene*	<0.050	0.050	09/30/2023	ND	1.83	91.3	2.00	5.28	
Ethylbenzene*	<0.050	0.050	09/30/2023	ND	1.91	95.6	2.00	4.43	
Total Xylenes*	<0.150	0.150	09/30/2023	ND	5.70	95.0	6.00	4.03	
Total BTEX	<0.300	0.300	09/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	13200	16.0	09/29/2023	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	09/29/2023	ND	174	87.1	200	3.53	
DRO >C10-C28*	<10.0	10.0	09/29/2023	ND	177	88.5	200	0.893	
EXT DRO >C28-C36	<10.0	10.0	09/29/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 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
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	09/28/2023	Sampling Date:	09/28/2023
Reported:	10/04/2023	Sampling Type:	Soil
Project Name:	MCA 1 SOUTH TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	03D2057090	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.81196,-103.786502		

Sample ID: SW 03 @ 4-8' (H235311-05)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2023	ND	1.82	91.1	2.00	4.73	
Toluene*	<0.050	0.050	09/30/2023	ND	1.83	91.3	2.00	5.28	
Ethylbenzene*	<0.050	0.050	09/30/2023	ND	1.91	95.6	2.00	4.43	
Total Xylenes*	<0.150	0.150	09/30/2023	ND	5.70	95.0	6.00	4.03	
Total BTEX	<0.300	0.300	09/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	09/29/2023	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	09/29/2023	ND	174	87.1	200	3.53	
DRO >C10-C28*	<10.0	10.0	09/29/2023	ND	177	88.5	200	0.893	
EXT DRO >C28-C36	<10.0	10.0	09/29/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	09/28/2023	Sampling Date:	09/28/2023
Reported:	10/04/2023	Sampling Type:	Soil
Project Name:	MCA 1 SOUTH TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	03D2057090	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.81196,-103.786502		

Sample ID: SW 04 @ 4-8' (H235311-06)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2023	ND	1.82	91.1	2.00	4.73	
Toluene*	<0.050	0.050	09/30/2023	ND	1.83	91.3	2.00	5.28	
Ethylbenzene*	<0.050	0.050	09/30/2023	ND	1.91	95.6	2.00	4.43	
Total Xylenes*	<0.150	0.150	09/30/2023	ND	5.70	95.0	6.00	4.03	
Total BTEX	<0.300	0.300	09/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	09/29/2023	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	09/29/2023	ND	174	87.1	200	3.53	
DRO >C10-C28*	<10.0	10.0	09/29/2023	ND	177	88.5	200	0.893	
EXT DRO >C28-C36	<10.0	10.0	09/29/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Notes and Definitions

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

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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'S REQUEST

Company Name: <u>Ensolum LLC</u>		BILL TO		ANALYSIS REQUEST																															
Project Manager: <u>Amel Ball</u>		P.O. #: <u>FA</u>																																	
Address: <u>3122 Nat'l Parks Hwy</u>		Company:																																	
City: <u>Oerlsbad</u> State: <u>NM</u> Zip: <u>88220</u>		Attn:																																	
Phone #: <u>720-354-7365</u> Fax #: <u>-</u>		Address:																																	
Project #: <u>03D2057090</u> Project Owner: <u>Maverick</u>		City:																																	
Project Name: <u>MEH-1 South Transfer Line</u>		State: Zip:																																	
Project Location: <u>82.811916 -103.786502</u>		Phone #:																																	
Sampler Name: <u>Julianna Falcone</u>		Fax #:																																	
FOR LAB USE ONLY																																			
Lab I.D. <u>H235311</u>		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX				PRESERV.		SAMPLING																					
				GROUNDWATER		WASTEWATER		SOIL				SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME											
1		FS04 @ 8'		1		X								X		9/28/23		0930		flex															
2		FS05 @ 8'																TPH																	
3		FS06 @ 8'																																	
4		FS07 @ 8'																																	
5		SW03 @ 4-8'																																	
6		SW04 @ 4-8'																																	

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Relinquished By: <u>Julianna Falcone</u>		Date: <u>9-28-23</u>		Received By: <u>Julianna Falcone</u>		Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:	
Relinquished By:		Time: <u>1405</u>		Received By:		All Results are emailed. Please provide Email address:	
Delivered By: (Circle One)		Observed Temp. °C <u>19</u>		Sample Condition		Turnaround Time: <u>Standard</u> <input checked="" type="checkbox"/> <u>Rush</u> <input type="checkbox"/>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		Bacteria (only) Sample Condition	
FORM-006 R 3.3 07/18/22				CHECKED BY: (Initials) <u>J.F.</u>		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	
						Thermometer ID #113 #140	
						Correction Factor -0.8°C TO <u>9/28/23</u>	
						Observed Temp. °C	
						Corrected Temp. °C	

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



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

October 19, 2023

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MCA 1 SOUTH TRANSFER LINE

Enclosed are the results of analyses for samples received by the laboratory on 10/13/23 12:36.

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/ga/lab_accred_certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: MCA 1 SOUTH TRANSFER LINE Project Number: 03D2057090 Project Manager: AIMEE COLE Fax To:	Reported: 19-Oct-23 09:09
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PH 01A @ 18'	H235604-01	Soil	13-Oct-23 10:00	13-Oct-23 12:36
PH 01B @ 21'	H235604-02	Soil	13-Oct-23 10:20	13-Oct-23 12:36

10/19/23 - Client changed sample IDs (see COC). This is the revised report and will replace the one sent on 10/18/23.

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: MCA 1 SOUTH TRANSFER LINE Project Number: 03D2057090 Project Manager: AIMEE COLE Fax To:	Reported: 19-Oct-23 09:09
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**PH 01A @ 18'
H235604-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	3800		16.0	mg/kg	4	3101618	AC	16-Oct-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3101312	JH	13-Oct-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %	71.5-134		3101312	JH	13-Oct-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3101327	MS	14-Oct-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3101327	MS	14-Oct-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3101327	MS	14-Oct-23	8015B	

Surrogate: 1-Chlorooctane			87.6 %	48.2-134		3101327	MS	14-Oct-23	8015B	
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Surrogate: 1-Chlorooctadecane			99.3 %	49.1-148		3101327	MS	14-Oct-23	8015B	
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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: MCA 1 SOUTH TRANSFER LINE Project Number: 03D2057090 Project Manager: AIMEE COLE Fax To:	Reported: 19-Oct-23 09:09
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**PH 01B @ 21'
H235604-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	16.0		16.0	mg/kg	4	3101618	AC	16-Oct-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3101312	JH	13-Oct-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			100 %	71.5-134		3101312	JH	13-Oct-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3101327	MS	14-Oct-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3101327	MS	14-Oct-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3101327	MS	14-Oct-23	8015B	

Surrogate: 1-Chlorooctane			93.1 %	48.2-134		3101327	MS	14-Oct-23	8015B	
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Surrogate: 1-Chlorooctadecane			105 %	49.1-148		3101327	MS	14-Oct-23	8015B	
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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: MCA 1 SOUTH TRANSFER LINE Project Number: 03D2057090 Project Manager: AIMEE COLE Fax To:	Reported: 19-Oct-23 09:09
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Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3101618 - 1:4 DI Water										
Blank (3101618-BLK1)										
Prepared & Analyzed: 16-Oct-23										
Chloride	ND	16.0	mg/kg							
LCS (3101618-BS1)										
Prepared & Analyzed: 16-Oct-23										
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (3101618-BSD1)										
Prepared & Analyzed: 16-Oct-23										
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: MCA 1 SOUTH TRANSFER LINE Project Number: 03D2057090 Project Manager: AIMEE COLE Fax To:	Reported: 19-Oct-23 09:09
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Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3101312 - Volatiles

Blank (3101312-BLK1)

Prepared & Analyzed: 13-Oct-23

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0521		mg/kg	0.0500		104	71.5-134			

LCS (3101312-BS1)

Prepared & Analyzed: 13-Oct-23

Benzene	1.94	0.050	mg/kg	2.00		96.9	82.8-130			
Toluene	1.89	0.050	mg/kg	2.00		94.5	86-128			
Ethylbenzene	2.03	0.050	mg/kg	2.00		102	85.9-128			
m,p-Xylene	4.04	0.100	mg/kg	4.00		101	89-129			
o-Xylene	2.05	0.050	mg/kg	2.00		103	86.1-125			
Total Xylenes	5.93	0.150	mg/kg	6.00		98.9	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0538		mg/kg	0.0500		108	71.5-134			

LCS Dup (3101312-BSD1)

Prepared & Analyzed: 13-Oct-23

Benzene	2.01	0.050	mg/kg	2.00		100	82.8-130	3.51	15.8	
Toluene	1.89	0.050	mg/kg	2.00		94.3	86-128	0.190	15.9	
Ethylbenzene	1.93	0.050	mg/kg	2.00		96.7	85.9-128	4.96	16	
m,p-Xylene	3.89	0.100	mg/kg	4.00		97.1	89-129	3.95	16.2	
o-Xylene	1.95	0.050	mg/kg	2.00		97.6	86.1-125	5.12	16.7	
Total Xylenes	5.84	0.150	mg/kg	6.00		97.3	88.2-128	1.64	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0490		mg/kg	0.0500		98.0	71.5-134			

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: MCA 1 SOUTH TRANSFER LINE Project Number: 03D2057090 Project Manager: AIMEE COLE Fax To:	Reported: 19-Oct-23 09:09
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Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3101327 - General Prep - Organics

Blank (3101327-BLK1)		Prepared & Analyzed: 13-Oct-23								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	57.1		mg/kg	50.0		114	48.2-134			
Surrogate: 1-Chlorooctadecane	64.3		mg/kg	50.0		129	49.1-148			

LCS (3101327-BS1)		Prepared & Analyzed: 13-Oct-23								
GRO C6-C10	198	10.0	mg/kg	200		99.2	66.4-123			
DRO >C10-C28	188	10.0	mg/kg	200		94.1	66.5-118			
Total TPH C6-C28	387	10.0	mg/kg	400		96.7	77.6-123			
Surrogate: 1-Chlorooctane	47.2		mg/kg	50.0		94.3	48.2-134			
Surrogate: 1-Chlorooctadecane	49.5		mg/kg	50.0		99.0	49.1-148			

LCS Dup (3101327-BSD1)		Prepared & Analyzed: 13-Oct-23								
GRO C6-C10	197	10.0	mg/kg	200		98.7	66.4-123	0.491	17.7	
DRO >C10-C28	189	10.0	mg/kg	200		94.4	66.5-118	0.272	21	
Total TPH C6-C28	386	10.0	mg/kg	400		96.6	77.6-123	0.119	18.5	
Surrogate: 1-Chlorooctane	49.2		mg/kg	50.0		98.3	48.2-134			
Surrogate: 1-Chlorooctadecane	51.6		mg/kg	50.0		103	49.1-148			

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

October 18, 2023

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MCA 1 SOUTH TRANSFER LINE

Enclosed are the results of analyses for samples received by the laboratory on 10/13/23 12:36.

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".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	10/13/2023	Sampling Date:	10/13/2023
Reported:	10/18/2023	Sampling Type:	Soil
Project Name:	MCA 1 SOUTH TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	03D2057090	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.811961,-103.786502		

Sample ID: PH 02 @ 7' (H235605-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2023	ND	1.94	96.9	2.00	3.51	
Toluene*	<0.050	0.050	10/14/2023	ND	1.89	94.5	2.00	0.190	
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	2.03	102	2.00	4.96	
Total Xylenes*	<0.150	0.150	10/14/2023	ND	5.93	98.9	6.00	1.64	
Total BTEX	<0.300	0.300	10/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	10700	16.0	10/16/2023	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	10/14/2023	ND	198	99.2	200	0.491	
DRO >C10-C28*	<10.0	10.0	10/14/2023	ND	188	94.1	200	0.272	
EXT DRO >C28-C36	<10.0	10.0	10/14/2023	ND					

Surrogate: 1-Chlorooctane 88.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.8 % 49.1-148

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*=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
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	10/13/2023	Sampling Date:	10/13/2023
Reported:	10/18/2023	Sampling Type:	Soil
Project Name:	MCA 1 SOUTH TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	03D2057090	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.811961,-103.786502		

Sample ID: PH 02 @ 13' (H235605-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2023	ND	1.94	96.9	2.00	3.51	
Toluene*	<0.050	0.050	10/14/2023	ND	1.89	94.5	2.00	0.190	
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	2.03	102	2.00	4.96	
Total Xylenes*	<0.150	0.150	10/14/2023	ND	5.93	98.9	6.00	1.64	
Total BTEX	<0.300	0.300	10/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	32.0	16.0	10/16/2023	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	10/14/2023	ND	198	99.2	200	0.491	
DRO >C10-C28*	<10.0	10.0	10/14/2023	ND	188	94.1	200	0.272	
EXT DRO >C28-C36	<10.0	10.0	10/14/2023	ND					

Surrogate: 1-Chlorooctane 91.0 % 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



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Notes and Definitions

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- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

October 18, 2023

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MCA 1 SOUTH TRANSFER LINE

Enclosed are the results of analyses for samples received by the laboratory on 10/13/23 12:36.

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, flowing "C" at the beginning.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	10/13/2023	Sampling Date:	10/13/2023
Reported:	10/18/2023	Sampling Type:	Soil
Project Name:	MCA 1 SOUTH TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	03D2057090	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.811961,-103.786502		

Sample ID: PH 01 @ 11' (H235606-01)

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	10/16/2023	ND	2.00	100	2.00	6.20	
Toluene*	<0.050	0.050	10/16/2023	ND	1.92	96.2	2.00	6.02	
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	1.88	94.0	2.00	9.46	
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.59	93.2	6.00	9.53	
Total BTEX	<0.300	0.300	10/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 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	9330	16.0	10/16/2023	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	10/14/2023	ND	198	99.2	200	0.491	
DRO >C10-C28*	<10.0	10.0	10/14/2023	ND	188	94.1	200	0.272	
EXT DRO >C28-C36	<10.0	10.0	10/14/2023	ND					

Surrogate: 1-Chlorooctane 87.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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- RPD Relative Percent Difference
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- *** Insufficient time to reach temperature.
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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>Anne Ball</u>		P.O. #: <u>A-A</u>																			
Address: <u>3122 North Parks Hwy</u>		Company:																			
City: <u>Carlsbad</u> State: <u>NM</u> Zip: <u>88220</u>		Attn:																			
Phone #: <u>720-384-7365</u> Fax #:		Address:																			
Project #: <u>03D2057090</u> Project Owner: <u>Maverick</u>		City:																			
Project Name: <u>MEK # 1 South Transfer Line</u>		State: Zip:																			
Project Location: <u>32.511961 -103.786502</u>		Phone #:																			
Sampler Name: <u>Julianna Falcomata</u>		Fax #:																			
FOR LAB USE ONLY																					
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING									
<u>H2357604</u>		<u>PHOZ @ 11'</u>		<u>1</u>		<u>1</u>		GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		ACID/BASE: ICE / COOL OTHER:		DATE TIME		<u>X</u>		<u>X</u>		<u>X</u>			
												<u>10/13/23</u> <u>0935</u>									

BTEX
TPH
Chlorides

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Relinquished By: <u>[Signature]</u>		Date: <u>10-13-23</u>	Received By: <u>[Signature]</u>		Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:	
		Time: <u>1236</u>			All Results are emailed. Please provide Email address:	
Relinquished By:		Date:	Received By:		<u>acoll@ensolum.com falcomata@ensolum.com</u>	
		Time:			REMARKS:	
Delivered By: (Circle One)		Observed Temp. °C <u>52</u>	Sample Condition		Turnaround Time: <u>Standard</u> <input type="checkbox"/> <u>Rush</u> <input checked="" type="checkbox"/>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No		Bacteria (only) Sample Condition	
			CHECKED BY: (Initials) <u>[Signature]</u>		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	
					Observed Temp. °C	
					Corrected Temp. °C	
					Thermometer ID #140	
					Correction Factor 0°C	

FORM-000 R 3.4 07/11/23

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



APPENDIX E
NMOCD Notifications

From: [Aimee Cole](#)
To: [Aimee Cole](#)
Subject: Extension Request - MCA #1 South Transfer Line (Incident Number nAPP2314650185)
Date: Wednesday, August 23, 2023 12:55:41 PM
Attachments: [Outlook-vfmp11pb.png](#)
[image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)



Aimee Cole
 Senior Managing Scientist
 720-384-7365
Ensolum, LLC

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Wednesday, August 23, 2023 12:54 PM
To: Aimee Cole <acole@ensolum.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: Maverick Permian, LLC - Extension Request - MCA #1 South Transfer Line (Incident Number nAPP2314650185)

You don't often get email from nelson.velez@emnrd.nm.gov. [Learn why this is important](#)

[**EXTERNAL EMAIL**]

Good day Aimee,

Your 90-day time extension request is approved. Remediation Due date has been updated to November 22, 2023 within the incident page.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

Regards,

Nelson Velez • Environmental Specialist - Adv

Environmental Bureau | EMNRD - Oil Conservation Division

1000 Rio Brazos Road | Aztec, NM 87410

(505) 469-6146 | nelson.velez@emnrd.nm.gov

From: [Buchanan, Michael, EMNRD](#)
To: [Kalei Jennings; Enviro, OCD, EMNRD; Velez, Nelson, EMNRD](#)
Cc: [Aimee Cole](#)
Subject: RE: [EXTERNAL] Maverick- Sampling Notification (Week of 7/3/2023)
Date: Monday, July 3, 2023 1:01:25 PM
Attachments: [image005.jpg](#)
[image006.png](#)
[image007.png](#)
[image008.png](#)
[image009.png](#)

[**EXTERNAL EMAIL**]

Good afternoon,

Thank you for the notification. Please include a copy of this and all notifications in the C-141, remedial and/or closure reports to ensure the notifications are documented in the project file.

Regards,

Mike Buchanan • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
8801 Horizon Blvd. NE | Albuquerque, NM 87113
| michael.buchanan@emnrd.nm.gov
<http://www.emnrd.nm.gov/oed>



From: Kalei Jennings <kjennings@ensolum.com>
Sent: Monday, July 3, 2023 1:14 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Aimee Cole <acole@ensolum.com>
Subject: [EXTERNAL] Maverick- Sampling Notification (Week of 7/3/2023)

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 3, 2023.

- MCA 204 / NAPP2311751602
 - Sampling Date: 7/6/2023 & 7/7/2023

MCA #1 South Transfer Line / NAPP2314650185

- Sampling Date: 7/6/2023
- EVGSAU 2437-001 / NAPP2303273838
 - Sampling Date: 7/6/2023

Thank you,



Kalei Jennings

Senior Scientist

817-683-2503

Ensolum, LLC



From: [Rodgers, Scott, EMNRD](#)
To: [Aimee Cole](#)
Cc: [Velez, Nelson, EMNRD](#); [Bratcher, Michael, EMNRD](#)
Subject: RE: [EXTERNAL] Maverick - Sampling Notification (Week of 9/18/2023)
Date: Wednesday, September 13, 2023 2:20:38 PM
Attachments: [image005.jpg](#)
[image006.png](#)
[image007.png](#)
[image008.png](#)
[image009.png](#)

You don't often get email from scott.rodgers@emnrd.nm.gov. [Learn why this is important](#)

[**EXTERNAL EMAIL**]

The OCD has received your notification. When reporting sampling at multiple locations it is required to provide a date and time for each location. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,
Scott

Scott Rodgers • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113
505.469.1830 | scott.rodgers@emnrd.nm.gov
<http://www.emnrd.nm.gov/ocd>



From: Aimee Cole <acole@ensolum.com>
Sent: Wednesday, September 13, 2023 2:51 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] Maverick - Sampling Notification (Week of 9/18/2023)

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

Maverick Permian, LLC plans to complete sampling activities at the following sites the week of September 18, 2023.

- MCA 95 / NAPP2306757137
 - Sampling Dates: 9/18/2023 – 9/20/2023

- MCA 1 South Transfer Line / nAPP2314650185
 - Sampling Dates: 9/20/2023 – 9/22/2023
- EVGSAU Satellite 5 / NAPP2213957732
 - Sampling Dates: 9/21/2023 – 9/22/2023

Thank you,



Aimee Cole
Senior Managing Scientist
720-384-7365
Ensolum, LLC
□ □ □

From: [Rodgers, Scott, EMNRD](#)
To: [Aimee Cole](#); [Velez, Nelson, EMNRD](#); [Bratcher, Michael, EMNRD](#)
Subject: RE: [EXTERNAL] Maverick - Sampling Notification (Week of 10/2/2023)
Date: Wednesday, September 27, 2023 3:53:30 PM
Attachments: [image005.jpg](#)
[image006.png](#)
[image007.png](#)
[image008.png](#)
[image009.png](#)

You don't often get email from scott.rodgers@emnrd.nm.gov. [Learn why this is important](#)

[**EXTERNAL EMAIL]**

The OCD has received your notification. When reporting sampling at multiple locations it is required to provide and date and time for each location. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file

Scott Rodgers • Environmental Specialist
 Environmental Bureau
 EMNRD - Oil Conservation Division
 8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113
 505.469.1830 | scott.rodgers@emnrd.nm.gov
<http://www.emnrd.nm.gov/oed>



From: Aimee Cole <acole@ensolum.com>
Sent: Wednesday, September 27, 2023 4:06 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] Maverick - Sampling Notification (Week of 10/2/2023)

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

Maverick Permian, LLC plans to complete sampling activities at the following sites the week of October 2, 2023.

- MCA 1 South Transfer Line / nAPP2314650185
 - Sampling Dates: 10/2/2023 – 10/3/2023
- EVGSAU Satellite 5 / NAPP2213957732
 - Sampling Dates: 10/2/2023 – 10/3/2023

Thank you,



Aimee Cole
Senior Managing Scientist
720-384-7365
Ensolum, LLC



From: [Rodgers, Scott, EMNRD](#)
To: [Aimee Cole](#); [Velez, Nelson, EMNRD](#); [Bratcher, Michael, EMNRD](#)
Subject: RE: [EXTERNAL] RE: Maverick - Sampling Notification (Week of 9/25/2023)
Date: Wednesday, September 20, 2023 1:27:49 PM
Attachments: [image005.jpg](#)
[image006.png](#)
[image007.png](#)
[image008.png](#)
[image009.png](#)

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 505.469.1830 | scott.rodgers@emnrd.nm.gov
<http://www.emnrd.nm.gov/ocd>



From: Aimee Cole <acole@ensolum.com>
Sent: Wednesday, September 20, 2023 2:25 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] RE: Maverick - Sampling Notification (Week of 9/25/2023)

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

Maverick Permian, LLC plans to complete sampling activities at the following sites the week of September 25, 2023.

- MCA 1 South Transfer Line / nAPP2314650185
 - Sampling Dates: 9/25/2023 – 9/27/2023
- EVGSAU Satellite 5 / NAPP2213957732
 - Sampling Dates: 9/27/2023 – 9/28/2023

Thank you,



Aimee Cole
Senior Managing Scientist
720-384-7365
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	nAPP2314650185
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Maverick Permian, LLC	OGRID
Contact Name: Bryce Wagoner	Contact Telephone: 928-241-1862
Contact email: Bryce.Wagoner@mavresources.com	Incident # (assigned by OCD) nAPP2314650185
Contact mailing address: 1410 NW County Road Hobbs, NM 88240	

Location of Release Source

Latitude 32.811916 _____ Longitude -103.786502 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: MCA #1 South Transfer Line	Site Type:
Date Release Discovered: May 26 th , 2023	API# (if applicable): N/A

Unit Letter	Section	Township	Range	County
B	29	17S	32E	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 type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 12 bbls	Volume Recovered (bbls) 0 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input 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:

During the process of walking the length of the water transfer line a leak was discovered. The affected area measured roughly 15 feet by 15 feet. The pipeline release was due to equipment failure, the pipeline was repaired, and the contamination was contained.

State of New Mexico
Oil Conservation Division

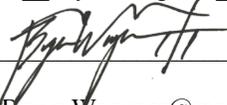
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Incident ID	nAPP2314650185
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Application ID	

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

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>6/5/2023</u> email: <u>Bryce.Wagoner@mavresources.com</u> Telephone: <u>928-241-1862</u>
<u>OCD Only</u> Received by: _____ Date: _____

Spill Volume(Bbls) Calculator		
<i>Inputs in blue , Outputs in red</i>		
Contaminated Soil measurement		
Length(Ft)	Width(Ft)	Depth(Ft)
<u>15</u>	<u>15.000</u>	<u>4.000</u>
Cubic Feet of Soil Impacted		<u>900.000</u>
Barrels of Soil Impacted		<u>160.43</u>
Soil Type		Clay/Sand
Barrels of Oil Assuming 100% Saturation		<u>24.06</u>
Saturation	Fluid present when squeezed	
Estimated Barrels of Oil Released		12.03

Incident ID	nAPP2314650185
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?	>100_(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 checked="" type="checkbox"/> Yes <input 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 1/2-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

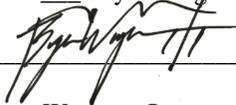
State of New Mexico
Oil Conservation Division

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Incident ID	nAPP2314650185
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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

Signature:  Date: 10-26-2023

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

OCD Only

Received by: Shelly Wells Date: 11/9/2023

Incident ID	nAPP2314650185
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

Signature:  Date: 10-26-2023

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

OCD Only

Received by: Shelly Wells Date: 11/9/2023

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: 02/23/2024

Printed Name: Nelson Velez Title: Environmental Specialist – Adv

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 284343

CONDITIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 284343
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	2/23/2024