

September 19, 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 409 Flowline
Incident Number NAPP2318846991
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 409 flowline (Site). The purpose of the assessment, excavation, and soil sampling activities was to address impacts to soil resulting from a release of crude oil release 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 NAPP2318846991.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit L, Section 27, Township 17 South, Range 32 East, in Lea County, New Mexico (32.803715° N, -103.760309° W) and is associated with oil and gas exploration and production operations on Federal Land managed by Bureau of Land Management (BLM).

On June 21, 2023, a damaged surface poly flowline resulted in the release of approximately 5.7 barrels (bbls) of crude oil onto the surrounding pasture. No released fluids were recovered; however, a scrape of the saturated surface soil was completed 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 July 5, 2023. The release was assigned Incident Number NAPP2318846991.

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 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well RA-12721 POD 5, located

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 601 North Marienfeld Street | Midland, TX 79701 | ensolum.com Maverick Permian, LLC Closure Request MCA 409 Flowline

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approximately 0.30 miles southwest of the Site. The well was drilled during April 2020 and has a reported depth to groundwater of 124 feet bgs. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well record is included in Appendix A.

The closest continuously flowing or significant watercourse 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

On June 28, 2023, site assessment activities were completed 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. Three assessment soil samples (SS05 through SS07) were collected within the release extent at a depth of 0.5 feet bgs to assess surficial soil within 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 EPA 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 provided lateral definition of the release. Laboratory analytical results for assessment soil samples SS05 through SS07, collected within the release extent, indicated that TPH and chloride concentrations exceeded the Site Closure Criteria and/or reclamation requirements. Based on visible staining in the release area and laboratory analytical results for the assessment soil samples, delineation and excavation activities were warranted.



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DELINEATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Between July 18, 2023 and August 24, 2023, Ensolum personnel were at the Site to complete additional assessment activities to delineate the vertical extent of the release. Potholes were advanced via backhoe within the release extent at the location of initial assessment samples SS05 through SS07. Soil from the potholes was field screened for volatile aromatic hydrocarbons (VOCs) utilizing a calibrated photoionization detector (PID) and chloride Hach® chloride QuanTab® test strips. 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 soil samples were collected from each pothole (SS05 through SS07) at depths ranging from 1-foot to 11 feet bgs. The delineation samples were collected, handled, and analyzed as described above. The delineation soil sample locations were mapped utilizing a handheld GPS and are presented on Figure 2. Photographic documentation was completed during the Site visits and a photographic log is included in Appendix B.

Laboratory analytical results for the delineation samples collected from pothole SS05, advanced near the release point, indicated that TPH and chloride concentrations exceeded the Site Closure Criteria and/or reclamation requirements in the top four feet. All COC concentrations were compliant the Site Closure Criteria at depths below four feet and compliant with the most stringent Table I Closure Criteria in the final depth sample, collected at 11 feet bgs. Laboratory analytical results for the delineation samples collected from potholes SS06 and SS07, advanced south of the release point, indicated that TPH and chloride concentrations exceeded reclamation requirements at depths ranging from 0.5 feet to 1-foot bgs. All COC concentrations were compliant the most stringent Table I Closure Criteria at a depth of 1-foot bgs in pothole SS06 and at a depth of 3 feet bgs in pothole SS07.

Based on delineation soil sample analytical results, the vertical extent of the release was successfully delineated and excavation activities proceeded.

EXCAVATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Between August 21, 2023 and August 28, 2023, Ensolum personnel were at the Site to oversee excavation of impacted soil as indicated by visible staining in the release area and laboratory analytical results for the delineation soil samples. To direct excavation activities, soil was field screened for VOCs and chloride. Excavation activities were performed using hand shovels, track-mounted backhoe, and transport vehicles. The excavation was completed to depths ranging from 1-foot to 6.25 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 FS17, FS10A, FS11A, and FS15A were collected from the floor of the excavation at depths ranging from 1-foot to 6.25 feet bgs. Composite soil samples SW01 through SW07 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 4 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.

Laboratory analytical results for excavation floor samples FS01 through FS09, FS10A, FS11A, FS12 through FS14, FS15A, FS16, and FS17 and excavation sidewall samples SW01 through SW07, 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 excavation floor samples FS10, FS11, and FS15 initially exceeded the Site Closure Criteria for TPH or chloride; additional soil was removed from these areas and subsequent floor samples



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FS10A, FS11A, and FS15A were compliant. Laboratory analytical results are summarized on Table 1 and the complete laboratory analytical reports are included as Appendix D.

The excavation measured approximately 2,850 square feet in areal extent. A total of approximately 460 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 June 21, 2023, release of crude oil. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure 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 NAPP2318846991. 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**

Ronni Hayes

Assistant Geologist

Bryce Wagoner, Maverick Natural Resources

Bureau of Land Management

Appendices:

CC:

Figure 1 Site Receptor Map

Figure 2 Assessment 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

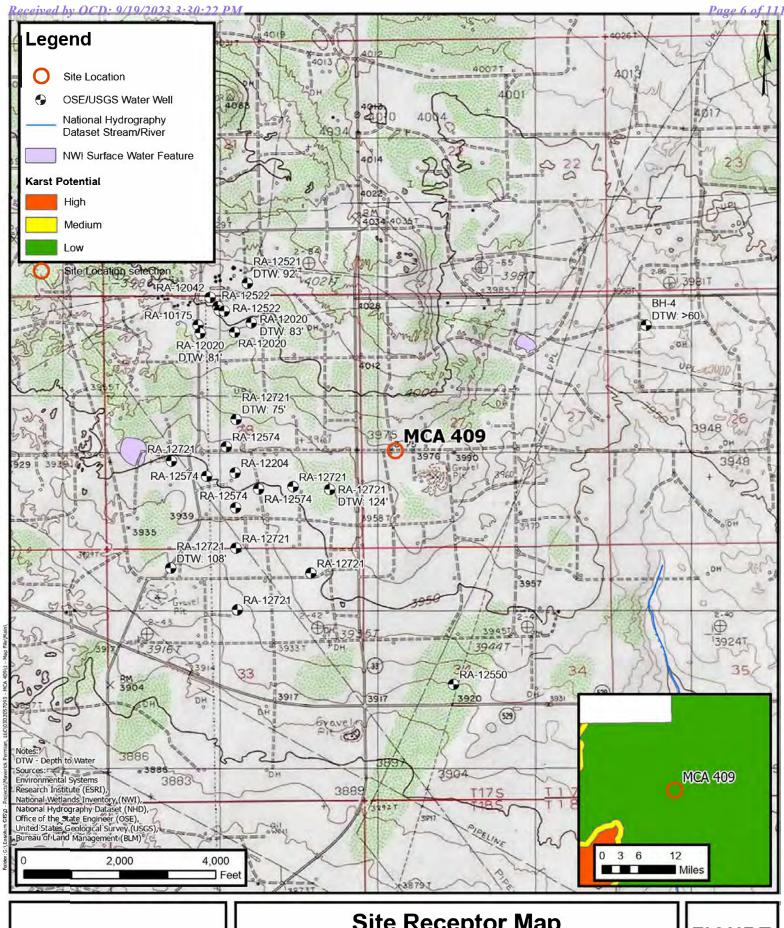
Appendix F Final C-141



Senior Managing Scientist



FIGURES

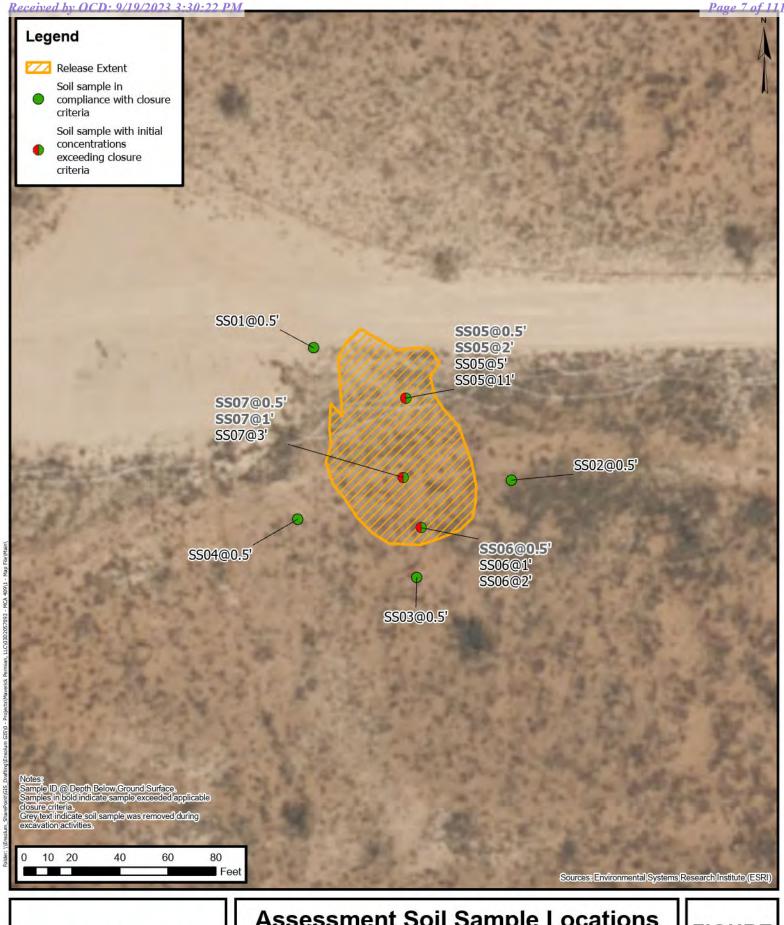




Site Receptor Map

Maverick Permian, LLC MCA 409 Incident Number: NAPP2318846991 Unit L, Sec 27, T17S R32E Lea County, New Mexico

FIGURE

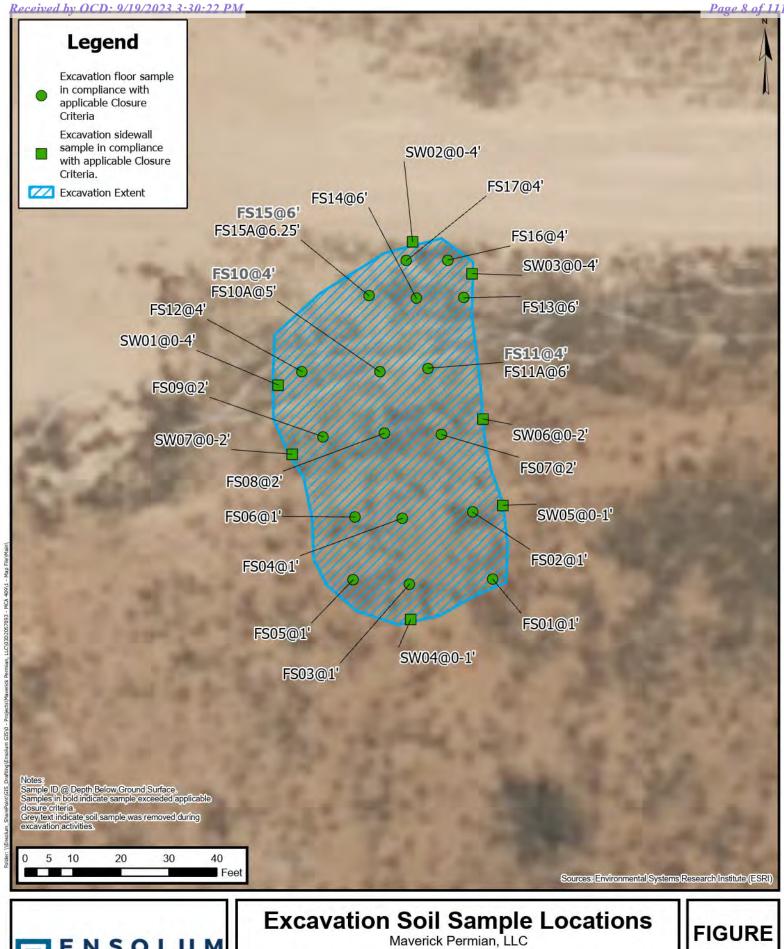




Assessment Soil Sample Locations

Maverick Permian, LLC MCA 409 Incident Number: NAPP2318846991 Unit L, Sec 27, T17S R32E Lea County, New Mexico

FIGURE 2





MCA 409 Incident Number: NAPP2318846991 Unit L, Sec 27, T17S R32E Lea County, New Mexico

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TABLES

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TABLE 1

SOIL SAMPLE ANALYTICAL RESULTS

MCA 409 Flowline Maverick Permian, LLC

					County, New Me					
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Tal	ble I Closure Cri 19.15.29)	teria (NMAC	10	50	NE	NE	NE	1,000	2,500	20,000
				Asses	sment Soil Sam	ples				
SS01*	06/28/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS02*	06/28/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS03*	06/28/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SS04*	06/28/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS05*	06/28/2023	0.5	0.618	103	1,700	8,770	1,540	10,470	12,010	2,760
SS05*	07/18/2023	2	<2.00	77.8	1,500	7,260	1,320	8,760	10,080	2,160
SS05	07/19/2023	5	<0.050	2.16	43.7	812	157	856	1,013	336
SS05	08/24/2023	11	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS06*	06/28/2023	0.5	< 0.050	< 0.300	<10.0	114	31.2	114	145	1,280
SS06*	07/18/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS06*	07/18/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS07*	06/28/2023	0.5	< 0.050	< 0.300	<10.0	978	232	978	1,210	2,760
SS07*	07/18/2023	1	< 0.050	< 0.300	<10.0	170	41.2	211	211	432
SS07*	07/18/2023	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
				Excavati	ion Floor Soil S	amples				
FS01*	8/21/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS02*	8/21/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS03*	8/21/2023	1	<0.050	<0.300	<10.0	46.7	<10.0	46.7	46.7	432.0
FS04*	8/21/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS05*	8/21/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS06*	8/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144.0
FS07*	8/22/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS08*	8/22/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS09*	8/22/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS10	8/22/2023	4	<0.050	12.9	226.0	2,350	452	2,576	3,028	3,320.0
FS10A	8/25/2023	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0

TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS

MCA 409 Flowline Maverick Permian, LLC Lea County, New Mexico

				Lea C	County, New Me	XICO				
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Tab	ole I Closure Cri 19.15.29)	iteria (NMAC	10	50	NE	NE	NE	1,000	2,500	20,000
FS11	8/22/2023	4	0.220	34.1	675.0	4,310	807	4,985	5,792	1,410.0
FS11A	8/25/2023	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	384.0
FS12	8/24/2023	4	<0.050	<0.300	<10.0	65.4	10.3	65.4	75.7	176
FS13	8/28/2023	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
FS14	8/28/2023	6	<0.050	<0.300	<10.0	91.9	20.5	91.9	112.4	432
FS15	8/28/2023	6	< 0.050	1.42	27.6	1,680	376	1,707.6	2,084	1,200
FS15A	9/6/2023	6.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS16	8/28/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS17	8/28/2023	4	<0.050	<0.300	<10.0	81.7	18.3	81.7	100	144
				Excavatio	n Sidewall Soil	Samples				
SW01*	8/28/2023	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW02*	8/28/2023	0-4	<0.050	<0.300	<10.0	24.7	<10.0	24.7	24.7	48.0
SW03*	8/28/2023	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW04*	8/28/2023	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW05*	8/28/2023	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW06*	8/29/2023	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW07*	8/29/2023	0-2	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0

Notes:

bgs: below ground surface mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

TPH: Total Petroleum Hydrocarbon

GRO: Gasoline Range Organics DRO: Diesel Range Organics ORO: Oil Range Organics

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

Grey text represents samples that have been excavated

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^{*} 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



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

 Well Tag
 POD Number
 Q64 Q16 Q4 Sec
 Tws
 Rng
 X
 Y

 NA
 RA 12721 POD5
 2 4 4 28 17S 32E
 615650 3629961
 615650 3629961

Driller License: 1456 **Driller Company:** WHITE DRILLING COMPANY

Driller Name: WHITE, JOHNNOWN.GENER

Drill Start Date: 04/27/2020 **Drill Finish Date:** 04/28/2020 **Plug Date:**

Log File Date: 05/18/2020 **PCW Rcv Date:** Source: Shallow

Pump Type: Pipe Discharge Size: Estimated Yield:

Casing Size: 2.00 Depth Well: 130 feet Depth Water: 124 feet

Water Bearing Stratifications:

Top Bottom Description

109 121 Sandstone/Gravel/Conglomerate
121 125 Sandstone/Gravel/Conglomerate
125 130 Sandstone/Gravel/Conglomerate
126 Sandstone/Gravel/Conglomerate
127 Sandstone/Gravel/Conglomerate
128 Sandstone/Gravel/Conglomerate
129 Sandstone/Gravel/Conglomerate

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

8/1/23 9:15 AM

POINT OF DIVERSION SUMMARY



APPENDIX B

Photographic Log

ENSOLUM

Photographic Log Maverick Permian, LLC MCA 409 Flowline NAPP2318846991



Photograph 1 Date: 06/21/2023 Description: Staining during initial release

View: East



Photograph 2 Date: 06/26/2023 Description: Site during initial assessment activities

View: East



Photograph 3

Description: Point of relase during delineation activities View: North

Date: 07/18/2023 delineation activities Photograph 4 Date: 08/18/2023

Description: HVAC line spotting

View: North



Photographic Log Maverick Permian, LLC MCA 409 Flowline NAPP2318846991



Photograph 5 Date: 08/21/2023

Description: Excavation activities

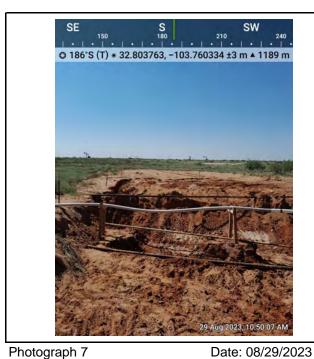
View: East



Photograph 6 Date: 08/22/2023

Description: Excavation activities

View: East



Description: Excavation activities

View: South



Photograph 8 Date: 08/29/2023

Description: Excavation activities

View: Southeast



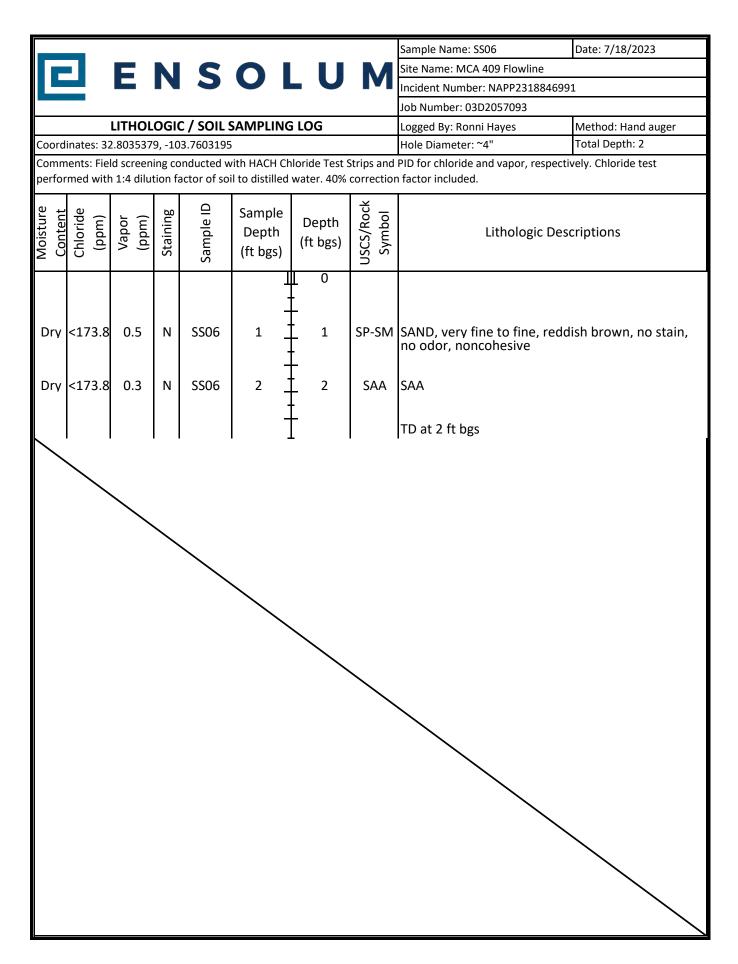
APPENDIX C

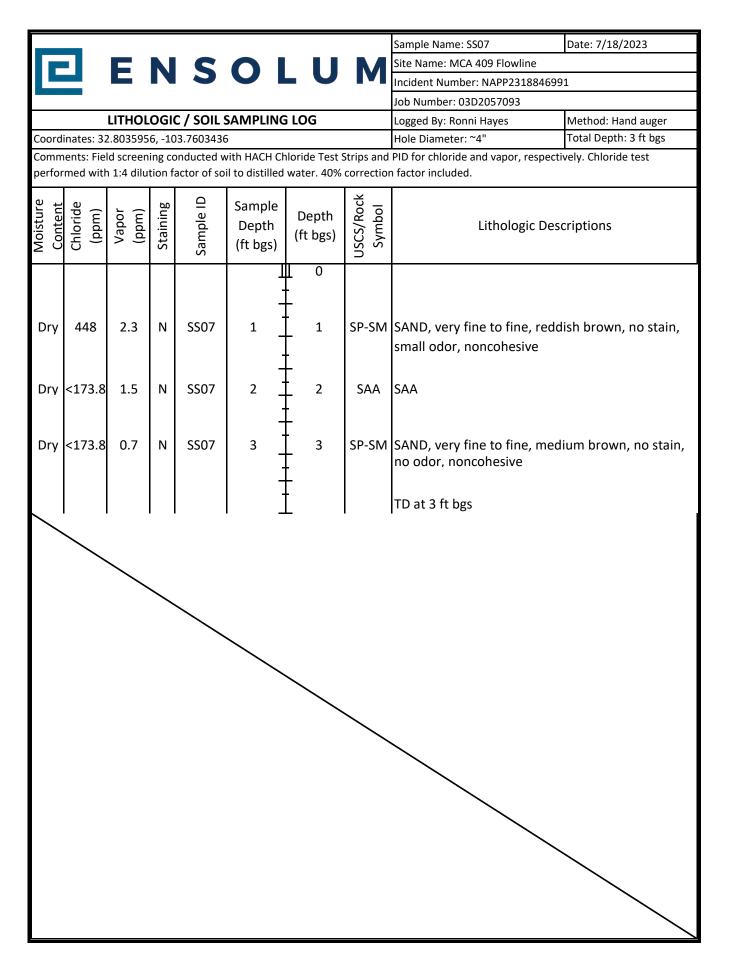
Lithologic Soil Sampling Logs

	Sample Name: SS05	Date: 8/24/2023				
ENSOLUM	Site Name: MCA 409 Flowline					
E N 3 O L O M	Incident Number: NAPP231884699	1				
	Job Number: 03D2057093					
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Ronni Hayes	Method: Trackhoe				
Coordinates: 32.8036754, -103.7603388	Hole Diameter: ~3'	Total Depth: 11 ft bgs				
Commonwest, Field common in a comply stand with UACH Chlorida Took String and DID for a	Liantida analisanan maanaatisalis Chila					

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.

1.1 anath	311 140001 01 3	on to distin		1070 0		.tor meraded	•	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						L 0 - -		
Dry	1500	3119	N	SS05	1 _	1 -	SP-SM	SAND, very fine to fine, reddish brown, no stain, strong odor, noncohesive
Dry	5812.8	3338	N	SS05	2 _	2 	SAA	SAA
Dry	4944.8	1582.1	N	SS05	3 _	_ _ 3 _	SAA	SAA, medium brown no odor, noncohesive
Dry	498.4	729.2	N	SS05	4 _	- - -	SP-SM	SAND, fine, poorly sorted, some limestone gravel, dark red, no staining, strong odor, noncohesive
Dry	554.4	630.1	N	SS05	5 <u>-</u> 5 <u>-</u>	- - 5 -	SAA	SAA
Moist	1,114.4	102.6	N	SS05	6	6	SAA	SAA, some cohesiveness
Moist	1,982.40	25.4	N	SS05	7 -	- 7 -	SAA	SAA
Moist	1,848	1.3	N	SS05	8 _	- - 8 -	SP-SM	SAND, fine-coarse, poorly sorted, no staining, odor, some cohesiveness, reddish, some limestone
Moist	1,982.40	10.3	N	SS05	9	- - 9	SAA	
Moist	806.9	5.6	N	SS05	10	10	SAA	
Moist	<173.8	0.3	N	SS05	11 _	11	SAA	SAA, no odor
					_	_		TD at 11 ft bgs







APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



July 03, 2023

KALEI JENNINGS
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: MCA 409 FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 06/28/23 13:45.

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 accreditated 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.

Celey D. Keine

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



Analytical Results For:

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

Received: 06/28/2023 Sampling Date: 06/26/2023 Reported: 07/03/2023 Sampling Type: Soil

Project Name: MCA 409 FLOWLINE Sampling Condition: Cool & Intact Project Number: 03D2057093 Sample Received By: Shalyn Rodriguez

Project Location: MAVERICK (32.4813-103.4538)

Sample ID: SS 01 0.5' (H233337-01)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2023	ND	1.91	95.3	2.00	6.33	
Toluene*	<0.050	0.050	06/29/2023	ND	2.01	100	2.00	6.35	
Ethylbenzene*	<0.050	0.050	06/29/2023	ND	2.05	102	2.00	5.94	
Total Xylenes*	<0.150	0.150	06/29/2023	ND	6.21	103	6.00	6.36	
Total BTEX	<0.300	0.300	06/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/29/2023	ND	352	88.0	400	12.8	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/29/2023	ND	199	99.6	200	4.24	
DRO >C10-C28*	<10.0	10.0	06/29/2023	ND	192	96.0	200	4.61	
EXT DRO >C28-C36	<10.0	10.0	06/29/2023	ND					
Surrogate: 1-Chlorooctane	112 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	125	% 49.1-14	8						

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Analytical Results For:

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

Received: 06/28/2023 Sampling Date: 06/26/2023

Reported: 07/03/2023 Sampling Type: Soil

Project Name: MCA 409 FLOWLINE Sampling Condition: Cool & Intact
Project Number: 03D2057093 Sample Received By: Shalyn Rodriguez

Analyzed By: MS

Project Location: MAVERICK (32.4813-103.4538)

mg/kg

Sample ID: SS 02 0.5' (H233337-02)

BTEX 8021B

	9/	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2023	ND	1.91	95.3	2.00	6.33	
Toluene*	<0.050	0.050	06/29/2023	ND	2.01	100	2.00	6.35	
Ethylbenzene*	<0.050	0.050	06/29/2023	ND	2.05	102	2.00	5.94	
Total Xylenes*	<0.150	0.150	06/29/2023	ND	6.21	103	6.00	6.36	
Total BTEX	<0.300	0.300	06/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/29/2023	ND	352	88.0	400	12.8	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/29/2023	ND	199	99.6	200	4.24	
DRO >C10-C28*	<10.0	10.0	06/29/2023	ND	192	96.0	200	4.61	
EXT DRO >C28-C36	<10.0	10.0	06/29/2023	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116	% 49.1-14	8						

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Analytical Results For:

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

Received: 06/28/2023 Reported: 07/03/2023

Project Name: MCA 409 FLOWLINE Project Number: 03D2057093

Project Location: MAVERICK (32.4813-103.4538) Sampling Date: 06/26/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

Sample ID: SS 03 0.5' (H233337-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2023	ND	1.91	95.3	2.00	6.33	
Toluene*	<0.050	0.050	06/29/2023	ND	2.01	100	2.00	6.35	
Ethylbenzene*	<0.050	0.050	06/29/2023	ND	2.05	102	2.00	5.94	
Total Xylenes*	<0.150	0.150	06/29/2023	ND	6.21	103	6.00	6.36	
Total BTEX	<0.300	0.300	06/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/29/2023	ND	352	88.0	400	12.8	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/29/2023	ND	199	99.6	200	4.24	
DRO >C10-C28*	<10.0	10.0	06/29/2023	ND	192	96.0	200	4.61	
EXT DRO >C28-C36	<10.0	10.0	06/29/2023	ND					
Surrogate: 1-Chlorooctane	105 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	% 49.1-14	8						

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Analytical Results For:

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

Received: 06/28/2023

Reported: 07/03/2023 Project Name: MCA 409 FLOWLINE

Project Number: 03D2057093

Project Location: MAVERICK (32.4813-103.4538) Sampling Date: 06/26/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

Sample ID: SS 04 0.5' (H233337-04)

BTEX 8021B	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2023	ND	1.91	95.3	2.00	6.33	
Toluene*	<0.050	0.050	06/29/2023	ND	2.01	100	2.00	6.35	
Ethylbenzene*	<0.050	0.050	06/29/2023	ND	2.05	102	2.00	5.94	
Total Xylenes*	<0.150	0.150	06/29/2023	ND	6.21	103	6.00	6.36	
Total BTEX	<0.300	0.300	06/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	6 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/29/2023	ND	352	88.0	400	12.8	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/29/2023	ND	199	99.6	200	4.24	
DRO >C10-C28*	<10.0	10.0	06/29/2023	ND	192	96.0	200	4.61	
EXT DRO >C28-C36	<10.0	10.0	06/29/2023	ND					
Surrogate: 1-Chlorooctane	102 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	6 49.1-14	8						

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Celey D. Keene



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

CARDINAL Laboratories 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Relinquished By:	Relinquished By:	PLEASE NOTE: Liability and Damages, Ca analyses. All daims including those for negl service, in ne event shall Cardinal be flable affiliates or successors artising out of or relat		4	S	2	H233337	Lab I.D.	FOR LAB USE ONLY	Sampler Name:	Project Location:	Project Name:	Project #:	Phone #:	City: OAL	Address: 8	Project Manager:	Company Name: Ensolum,
		X	Damages. Ca Bose for neg Inal be fable out of or relat		2504	\$503	28801		Sample I.D.	C	MOUNT	11 20 4413	JOH HOW	260/5070		Sped	1 - FON 12	or hale	e: Ensolum, LLC
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July 03, 2023

KALEI JENNINGS
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: MCA 409 FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 06/28/23 13:45.

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 accreditated 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)

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 06/28/2023 Sampling Date: 06/26/2023 Reported: 07/03/2023 Sampling Type: Soil

Project Name: MCA 409 FLOWLINE Sampling Condition: Cool & Intact
Project Number: 03D2057093 Sample Received By: Shalyn Rodriguez

A ... - L ... - - - I D. .. MC

Project Location: MAVERICK (32.4813-103.4538)

Sample ID: SS 05 0.5' (H233338-01)

BTEX 8021B	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.618	0.500	06/29/2023	ND	1.91	95.3	2.00	6.33	
Toluene*	17.4	0.500	06/29/2023	ND	2.01	100	2.00	6.35	
Ethylbenzene*	29.9	0.500	06/29/2023	ND	2.05	102	2.00	5.94	
Total Xylenes*	54.7	1.50	06/29/2023	ND	6.21	103	6.00	6.36	
Total BTEX	103	3.00	06/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	166	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2760	16.0	06/29/2023	ND	352	88.0	400	12.8	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1700	100	06/29/2023	ND	199	99.6	200	4.24	
DRO >C10-C28*	8770	100	06/29/2023	ND	192	96.0	200	4.61	
EXT DRO >C28-C36	1540	100	06/29/2023	ND					
Surrogate: 1-Chlorooctane	252	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	195	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager

Released to Imaging: 1/10/2024 4:46:31 PM



Analytical Results For:

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

Received: 06/28/2023 Sampling Date: 06/26/2023

Reported: 07/03/2023 Sampling Type: Soil

Project Name: MCA 409 FLOWLINE Sampling Condition: Cool & Intact
Project Number: 03D2057093 Sample Received By: Shalyn Rodriguez

Project Location: MAVERICK (32.4813-103.4538)

Sample ID: SS 06 0.5' (H233338-02)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2023	ND	1.91	95.3	2.00	6.33	
Toluene*	0.058	0.050	06/29/2023	ND	2.01	100	2.00	6.35	
Ethylbenzene*	0.073	0.050	06/29/2023	ND	2.05	102	2.00	5.94	
Total Xylenes*	<0.150	0.150	06/29/2023	ND	6.21	103	6.00	6.36	
Total BTEX	<0.300	0.300	06/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	111	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1280	16.0	06/29/2023	ND	352	88.0	400	12.8	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/29/2023	ND	199	99.6	200	4.24	
DRO >C10-C28*	114	10.0	06/29/2023	ND	192	96.0	200	4.61	
EXT DRO >C28-C36	31.2	10.0	06/29/2023	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	123	% 49.1-14	18						

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Celey D. Keine



Analytical Results For:

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

 Received:
 06/28/2023
 Sampling Date:
 06/26/2023

 Reported:
 07/03/2023
 Sampling Type:
 Soil

Project Name: MCA 409 FLOWLINE Sampling Condition: Cool & Intact
Project Number: 03D2057093 Sample Received By: Shalyn Rodriguez

Project Location: MAVERICK (32.4813-103.4538)

Sample ID: SS 07 0.5' (H233338-03)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2023	ND	1.91	95.3	2.00	6.33	
Toluene*	<0.050	0.050	06/29/2023	ND	2.01	100	2.00	6.35	
Ethylbenzene*	<0.050	0.050	06/29/2023	ND	2.05	102	2.00	5.94	
Total Xylenes*	<0.150	0.150	06/29/2023	ND	6.21	103	6.00	6.36	
Total BTEX	<0.300	0.300	06/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	14						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2760	16.0	06/29/2023	ND	352	88.0	400	12.8	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/29/2023	ND	199	99.6	200	4.24	
DRO >C10-C28*	978	10.0	06/29/2023	ND	192	96.0	200	4.61	
EXT DRO >C28-C36	232	10.0	06/29/2023	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	14						
Surrogate: 1-Chlorooctadecane	145	% 49.1-14	18						

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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 SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene

Laboratories 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

PLEASE NOTE: Liability and Damages, Candras analyses. All claims including those for negligars service, in no event chall Cardinal be liable for in affiliates or successors artificing out of or related by: Relinquished By: Relinquished By: Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Project Manager: MARIA Address: SIZ MARIA City: MARIA SOUD Phone #: Project Name: MARIA Sampler Name: FOR UAB USE ONLY Lab I.D. Sample I. #23338 SSOE 3 SOE 3 SO	Company Mamo
PLEASE NOTE: Labelly and Damages. Cardwafe liabelly and clients exclusive analyses. All claims including tools for negligance and any other cause which solvice, in no event shall Cardwall be liable for included all or consequential demission or successors arising out of or related to the performance of services in Rellinquished By: Rellinquished By: Rellinquished By: Date: Time: Delivered By: (Circle One) Observes Sampler - UPS - Bus - Other: Corrected	Sample I.D. Sample I.D.	(575) 393-2326
dients exclusive ere cause evisition recognished deman recognished deman recognished terms. Date: Date: Time:	State: () (M) Fax #: Project Owner: Flouding (feet)	(575) 393-2326 FAX (575) 353-2476
Received By: Sample Condition Sample Condition Sample Condition No.	GROUNDWATER WASTEWATER WORLD WITH A CONTAINERS WASTEWATER WORLD WASTEWATER WORLD WASTEWATER WASTEWATER WASTEWATER WASTEWATER WASTEWATER WASTEWATER	16
empty for any dam arising whether based in contract or bot, shall be limited to the amount paid by the clear for the over shall be deemed valued unless made in willing and received by Cardinal within 30 days after completion of the applicable gra, including without limitation, business interruptions, base of use, or base of profile incurred by client, its subsidiaries, streamed by Cardinal regardless of whether such claim; is based upon any of the above stated reasons or differente. Received By: Received By: Received By: Cool intact Checked By: Correction Factor 0	SLUDGE OTHER: ACID/BASE: Phone #: City: ACID/BASE: PRESERV. SAMI DATE SLUDGE Company: Address: City: City: State: Zip: DATE	BILL TO
Ime:: D #113	SAMPLING SAMPLI	
Yes I No Add'l Phone #: ed. Please provide Email address: Standard B: Bacteria (only) Standard B: Bacteria (only) Rush Cool Infact No No No		ANALYSIS REC
Mample Condition Observed Temp. °C Corrected Temp. °C		REQUEST



July 24, 2023

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MCA 409 FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 07/18/23 14:02.

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 accreditated 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.

Celey D. Keine

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



Analytical Results For:

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

Received: 07/18/2023 Sampling Date: 07/18/2023

Reported: 07/24/2023 Sampling Type: Soil

Project Name: MCA 409 FLOWLINE Sampling Condition: Cool & Intact
Project Number: 03D2057093 Sample Received By: Shalyn Rodriguez

Project Location: MAVERICK (32.803715, -103.760309)

Sample ID: SS 06 - 1' (H233727-01)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2023	ND	2.20	110	2.00	3.31	
Toluene*	<0.050	0.050	07/23/2023	ND	2.13	107	2.00	3.64	
Ethylbenzene*	<0.050	0.050	07/23/2023	ND	2.06	103	2.00	3.45	
Total Xylenes*	<0.150	0.150	07/23/2023	ND	6.23	104	6.00	3.69	
Total BTEX	<0.300	0.300	07/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/21/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/21/2023	ND	186	93.0	200	3.17	
DRO >C10-C28*	<10.0	10.0	07/21/2023	ND	191	95.5	200	3.35	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					
Surrogate: 1-Chlorooctane 111 %		% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	129	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Analytical Results For:

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

Received: 07/18/2023 Sampling Date: 07/18/2023

Reported: 07/24/2023 Sampling Type: Soil

Project Name: MCA 409 FLOWLINE Sampling Condition: Cool & Intact Project Number: 03D2057093 Sample Received By: Shalyn Rodriguez

Project Location: MAVERICK (32.803715, -103.760309)

Sample ID: SS 06 - 2' (H233727-02)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2023	ND	2.20	110	2.00	3.31	
Toluene*	<0.050	0.050	07/23/2023	ND	2.13	107	2.00	3.64	
Ethylbenzene*	<0.050	0.050	07/23/2023	ND	2.06	103	2.00	3.45	
Total Xylenes*	<0.150	0.150	07/23/2023	ND	6.23	104	6.00	3.69	
Total BTEX	<0.300	0.300	07/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/21/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/21/2023	ND	186	93.0	200	3.17	
DRO >C10-C28*	<10.0	10.0	07/21/2023	ND	191	95.5	200	3.35	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					
Surrogate: 1-Chlorooctane	112 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	136	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

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

Received: 07/18/2023 Sampling Date: 07/18/2023

Reported: 07/24/2023 Sampling Type: Soil

Project Name: MCA 409 FLOWLINE Sampling Condition: Cool & Intact Project Number: 03D2057093 Sample Received By: Shalyn Rodriguez

Project Location: MAVERICK (32.803715, -103.760309)

Sample ID: SS 07 - 1' (H233727-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2023	ND	2.20	110	2.00	3.31	
Toluene*	<0.050	0.050	07/23/2023	ND	2.13	107	2.00	3.64	
Ethylbenzene*	<0.050	0.050	07/23/2023	ND	2.06	103	2.00	3.45	
Total Xylenes*	<0.150	0.150	07/23/2023	ND	6.23	104	6.00	3.69	
Total BTEX	<0.300	0.300	07/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	07/21/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/21/2023	ND	186	93.0	200	3.17	
DRO >C10-C28*	170	10.0	07/21/2023	ND	191	95.5	200	3.35	
EXT DRO >C28-C36	41.2	10.0	07/21/2023	ND					
Surrogate: 1-Chlorooctane	110 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	132 9	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 07/18/2023 Sampling Date: 07/18/2023

Reported: 07/24/2023 Sampling Type: Soil

Project Name: MCA 409 FLOWLINE Sampling Condition: Cool & Intact Project Number: 03D2057093 Sample Received By: Shalyn Rodriguez

Project Location: MAVERICK (32.803715, -103.760309)

Sample ID: SS 07 - 3' (H233727-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/22/2023	ND	1.96	97.9	2.00	0.349	
Toluene*	<0.050	0.050	07/22/2023	ND	1.97	98.5	2.00	0.125	
Ethylbenzene*	<0.050	0.050	07/22/2023	ND	2.02	101	2.00	0.166	
Total Xylenes*	<0.150	0.150	07/22/2023	ND	5.95	99.1	6.00	0.336	
Total BTEX	<0.300	0.300	07/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/21/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/21/2023	ND	186	93.0	200	3.17	
DRO >C10-C28*	<10.0	10.0	07/21/2023	ND	191	95.5	200	3.35	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					
Surrogate: 1-Chlorooctane	112 %	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	132 9	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 07/18/2023 Sampling Date: 07/18/2023

Reported: 07/24/2023 Sampling Type: Soil MCA 409 FLOWLINE

Project Name: Sampling Condition: Cool & Intact Project Number: 03D2057093 Sample Received By: Shalyn Rodriguez

Project Location: MAVERICK (32.803715, -103.760309)

Sample ID: SS 05 - 2' (H233727-05)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	07/22/2023	ND	1.96	97.9	2.00	0.349	
Toluene*	12.5	2.00	07/22/2023	ND	1.97	98.5	2.00	0.125	
Ethylbenzene*	23.7	2.00	07/22/2023	ND	2.02	101	2.00	0.166	
Total Xylenes*	41.6	6.00	07/22/2023	ND	5.95	99.1	6.00	0.336	
Total BTEX	77.8	12.0	07/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2160	16.0	07/21/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1500	100	07/21/2023	ND	186	93.0	200	3.17	
DRO >C10-C28*	7260	100	07/21/2023	ND	191	95.5	200	3.35	
EXT DRO >C28-C36	1320	100	07/21/2023	ND					
Surrogate: 1-Chlorooctane	218	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	196	% 49.1-14	8						

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Celey D. Keene

S-04



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: 07/18/2023 Sampling Date: 07/18/2023

Reported: 07/24/2023 Sampling Type: Soil

Project Name: MCA 409 FLOWLINE Sampling Condition: Cool & Intact
Project Number: 03D2057093 Sample Received By: Shalyn Rodriguez

Analyzed By: MC

Project Location: MAVERICK (32.803715, -103.760309)

ma/ka

Sample ID: SS 05 - 5' (H233727-06)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	а ву: м5					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/22/2023	ND	1.96	97.9	2.00	0.349	
Toluene*	0.183	0.050	07/22/2023	ND	1.97	98.5	2.00	0.125	
Ethylbenzene*	0.580	0.050	07/22/2023	ND	2.02	101	2.00	0.166	
Total Xylenes*	1.40	0.150	07/22/2023	ND	5.95	99.1	6.00	0.336	
Total BTEX	2.16	0.300	07/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	156	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	07/21/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	43.7	10.0	07/21/2023	ND	170	84.8	200	7.89	
DRO >C10-C28*	812	10.0	07/21/2023	ND	183	91.4	200	6.97	QM-07
EXT DRO >C28-C36	157	10.0	07/21/2023	ND					
Surrogate: 1-Chlorooctane	115	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	154	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Kreene



Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client is subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keene

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

CHAIN-OF-CUSTODY AND ANALYS'S REQUEST



(575) 303 2326 EAY (575) 303-2476	470	
Company Name: (27) 500 2020 100 (27) 500 200	BILL TO	O ANALYSIS REQUEST
Project Manager: Aimee (8/0	P.O. #:	
MA	Company: ENSUM	MILL
artshot	Zip: 88220 Attn: Aine (66
Phone #: 720-384-7365 Fax #:	Address:	
Project #: 6572057043 Project Owner:	city:	
me: MCA 409 Flow	State: Zip:	
on: 32.863715,-103.7	(40300) Phone #:	
Sampler Name: DOM Huyes	Fax #:	
	MATRIX PRESERV.	SAMPLING
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	BTEX
2 - 1055 4 2 - 1055 5 3 - 201 - 1, 1 - 2055 1	×	22
3 - 5055 - 5,		1188 4 4
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim srising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including highout limitation, business interruptions, loss of use, or loss of profits incurred by clent, its subsidiaries,	r any claim arising whether based in contract or tort, shall be limited to the amouse deemed waiwed unless made in writing and received by Cardinal within 30 daying without limitation, business interruptions, loss of use, or loss of profits incurr	unt paid by the client for the ays after completion of the applicable red by client, its subsidiaries,
Relinquished By: Relinquished By: Date:	Received By:	Verbal Result:
Delivered By: (Circle One) Observed Temp. °C Sampler : UPS - Bus - Other: Corrected Temp. °C	Sample Condition CHECKED BY: Cool Intact CHYes Tyes CHYES TYES	Turnaround Time: Standard Standard Cool Intact Observed Temp. °C Thermometer ID 1443 Correction Factor 10.8°C Correction Factor 10.8°C Correction Factor 10.8°C Thermometer ID 1443 Rush Corrected Temp. °C I No I No Corrected Temp. °C



August 23, 2023

AIMEE COLE
ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MCA 409 FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 08/22/23 15:30.

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 accreditated 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)

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

 Received:
 08/22/2023
 Sampling Date:
 08/22/2023

 Reported:
 08/23/2023
 Sampling Type:
 Soil

Project Name: MCA 409 FLOWLINE Sampling Condition: Cool & Intact
Project Number: 03D2057093 Sample Received By: Shari Cisneros

A I J D. ... 711

Project Location: MAVERICK (32.803715, -103.760309)

Sample ID: FS 10 4' (H234557-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2023	ND	1.88	94.1	2.00	2.98	
Toluene*	1.53	0.050	08/23/2023	ND	2.11	106	2.00	0.793	
Ethylbenzene*	3.33	0.050	08/23/2023	ND	2.16	108	2.00	0.470	
Total Xylenes*	8.09	0.150	08/23/2023	ND	6.53	109	6.00	1.12	
Total BTEX	12.9	0.300	08/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	138	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3320	16.0	08/23/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	226	10.0	08/23/2023	ND	199	99.5	200	4.76	
DRO >C10-C28*	2350	10.0	08/23/2023	ND	207	103	200	5.88	
EXT DRO >C28-C36	452	10.0	08/23/2023	ND					
Surrogate: 1-Chlorooctane	112 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

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

Received: 08/22/2023 Sampling Date: 08/22/2023

Reported: 08/23/2023 Sampling Type: Soil

Project Name: MCA 409 FLOWLINE Sampling Condition: Cool & Intact
Project Number: 03D2057093 Sample Received By: Shari Cisneros

Analyzed By: JH

Project Location: MAVERICK (32.803715, -103.760309)

mg/kg

Sample ID: FS 11 4' (H234557-02)

BTEX 8021B

		<u> </u>							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.220	0.050	08/23/2023	ND	1.88	94.1	2.00	2.98	
Toluene*	5.84	0.050	08/23/2023	ND	2.11	106	2.00	0.793	
Ethylbenzene*	8.48	0.050	08/23/2023	ND	2.16	108	2.00	0.470	
Total Xylenes*	19.5	0.150	08/23/2023	ND	6.53	109	6.00	1.12	
Total BTEX	34.1	0.300	08/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1410	16.0	08/23/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	675	10.0	08/23/2023	ND	199	99.5	200	4.76	
DRO >C10-C28*	4310	10.0	08/23/2023	ND	207	103	200	5.88	
EXT DRO >C28-C36	807	10.0	08/23/2023	ND					
Surrogate: 1-Chlorooctane	140	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113	% 49.1-14	18						

Cardinal Laboratories *=Accredited Analyte

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Celey & Keene



Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch

accepted based on LCS and/or LCSD recovery and/or RPD values.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries of successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg & Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Company Name: Ensolum, LLC	C		BILL TO		ANALYSIS REQUEST	ST
Project Manager: Aimee Cole			P.O. #: A; mee & Ensolum	Ensolum		
Address: 3122 National Parks Hwy	Hwy		Company: BTA Oil			
City: Carlsbad	State: NM	Zip: 88220	Attn: Kevin Jones			
Phone #: 720-384-7365	Fax #:		Address: 104'S Pecos St	St		
Project #:03D2057093	Project Owner: Maverick	Maverick	City: Midland			
Project Name: MCA 409 Flowline			State: Texas Zip: 79701	3		
Project Location:32.803715, -103.760309	03.760309		Phone/#: 432-312-2203	ω		
Sampler Name: Ronni Hayes			Fax #:	7		
FOR LAB USE ONLY		MATRIX	PRESERV. SAM	SAMPLING		
Lab I.D. Sample I.D.	I.D. Depth (feet)	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	BTEX TPH	CI-	
1 15/0	4	8	×	X X 2291	×	
D FS11	ų,	×	× 8/22/23	x h201	*	
PLEASE NOTE: Lability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or lort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waked unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In or event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss or use, or loss of profits incurred by clernt, its subsidiaries,	ability and client's exclusive remedy for an ind any other cause whatsoever shall be do ntal or consequental damages, including	y claim arising whether based in contract semed waived unless made in writing and without limitation, business interruptions, I	or tort, shall be limited to the amount pa d received by Cardinal within 30 days after loss of use, or loss of profits incurred by	id by the client for the er completion of the applicable client, its subsidiaries,		
Relinquished By:	Time: 300	Received By:	Received By: Verbal Results All Results	Verbal Result: 2 Ye All Results are emailed.	Verbal Result: Yes No Add'I Phone #: All Results are emailed. Please provide Email address: a. Col 200 ths Jum. Com, In Comato Dens Jum. Com	um.com
Relinquished By:		Received By:		REMARKS:	(
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Corrected Temp. °C	Sample Condition Cool Intact Yes Yes	ion CHECKED BY: (Initials)	Turnaround Time:	Standard Bacteria (only) Sample Condition Rush Cool Intact Observed Temp.	ample Condition Observed Temp. °C



August 28, 2023

AIMEE COLE
ENSOLUM
3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MCA 409 FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 08/22/23 15:00.

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 accreditated 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.

Celey D. Keine

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



Analytical Results For:

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

Received: 08/22/2023 Sampling Date: 08/22/2023

Reported: 08/28/2023 Sampling Type: Soil

Project Name: MCA 409 FLOWLINE Sampling Condition: Cool & Intact Project Number: 03D2057093 Sample Received By: Shari Cisneros

Project Location: MAVERICK (32.803715, -103.760309)

Sample ID: FS 07 2' (H234568-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2023	ND	1.89	94.5	2.00	1.65	
Toluene*	<0.050	0.050	08/25/2023	ND	1.88	94.2	2.00	0.877	
Ethylbenzene*	<0.050	0.050	08/25/2023	ND	1.97	98.3	2.00	1.47	
Total Xylenes*	<0.150	0.150	08/25/2023	ND	5.83	97.1	6.00	0.914	
Total BTEX	<0.300	0.300	08/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/24/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2023	ND	147	73.7	200	2.66	
DRO >C10-C28*	<10.0	10.0	08/24/2023	ND	163	81.5	200	3.18	
EXT DRO >C28-C36	<10.0	10.0	08/24/2023	ND					
Surrogate: 1-Chlorooctane	95.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

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

Received: 08/22/2023 Sampling Date: 08/22/2023

Reported: 08/28/2023 Sampling Type: Soil

Project Name: MCA 409 FLOWLINE Sampling Condition: Cool & Intact Shari Cisneros Project Number: 03D2057093 Sample Received By:

Project Location: MAVERICK (32.803715, -103.760309)

Sample ID: FS 08 2' (H234568-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2023	ND	1.89	94.5	2.00	1.65	
Toluene*	<0.050	0.050	08/25/2023	ND	1.88	94.2	2.00	0.877	
Ethylbenzene*	<0.050	0.050	08/25/2023	ND	1.97	98.3	2.00	1.47	
Total Xylenes*	<0.150	0.150	08/25/2023	ND	5.83	97.1	6.00	0.914	
Total BTEX	<0.300	0.300	08/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	6 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/24/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2023	ND	147	73.7	200	2.66	
DRO >C10-C28*	<10.0	10.0	08/24/2023	ND	163	81.5	200	3.18	
EXT DRO >C28-C36	<10.0	10.0	08/24/2023	ND					
Surrogate: 1-Chlorooctane	96.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	6 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

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

Received: 08/22/2023 Sampling Date: 08/22/2023

Reported: 08/28/2023 Sampling Type: Soil

Project Name: MCA 409 FLOWLINE Sampling Condition: Cool & Intact
Project Number: 03D2057093 Sample Received By: Shari Cisneros

Analyzed By: JH/

Project Location: MAVERICK (32.803715, -103.760309)

mg/kg

Sample ID: FS 09 2' (H234568-03)

BTEX 8021B

DILX GOZID	ıııg,	ng .	Andryzo	u by. 511/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2023	ND	1.89	94.5	2.00	1.65	
Toluene*	<0.050	0.050	08/25/2023	ND	1.88	94.2	2.00	0.877	
Ethylbenzene*	<0.050	0.050	08/25/2023	ND	1.97	98.3	2.00	1.47	
Total Xylenes*	<0.150	0.150	08/25/2023	ND	5.83	97.1	6.00	0.914	
Total BTEX	<0.300	0.300	08/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/24/2023	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2023	ND	155	77.6	200	1.22	
DRO >C10-C28*	<10.0	10.0	08/24/2023	ND	146	73.1	200	4.25	
EXT DRO >C28-C36	<10.0	10.0	08/24/2023	ND					
Surrogate: 1-Chlorooctane	69.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.5	% 49.1-14	8						

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Celey D. Keine



Notes and Definitions

BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC			BILL TO	3			
Project Manager: Aimee Cole			P.O. #: Americe	c Frank	ANALYSIS	S REQUEST	
Address: 3122 National Parks Hwy	lwy		Company: BTA Oil	0000			1
City: Carlsbad	State: NM	Zip: 88220	Attn: Kevin Jones				
Phone #: 720-384-7365	Fax #:		Address: 104 S.Pecos St	s St		,	
Project #:03D2057093	Project Owner: Maverick	r: Maverick	City: Midland				
Project Name: MCA 409 Flowline	ne		State: Texas Zip: 79701	701			
Project Location:32.803715, -103.760309	3.760309		Phone #: 432-312-2203	03			
Sampler Name: Ronni Hayes			Fax #:				
FOR LAB USE ONLY		MATRIX	SERV.	SAMPLING			
Lah I D. Sample I.D.		WATER		X			
X	(lect)	# CONTA GROUNI WASTEV SOIL OIL SLUDGE	OTHER: ACID/BAS CE/COC OTHER:	TPH BTE	CI-		
F507	,2	×	X	2007			
	.2	×	×	-	- >		1
2 7 7 2	12	×	×	1000			
PLEASE NOTE: Lability and Damages. Cardinal's liability and client's acclusive remody for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affaites or successors arising out of or related to the performance of services therefunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Relinquished By: Received By:	ily and client's exclusive remedy for any any other cause whatsoever shall be del or consequental damages, including who consequental damages, including who can be services hereunder by Carriormance of services here and the services here are also services here and the services here and the services here are also services here are also services here and the services here are also services here and the services here are also services here and the services here are also ser	s exclusive remody for any claim arising whether based in confract or tort, shall be limited to the amount paid by the client for rise whatsoever shall be deemed walved unless made in writing and received by Cardinal within 30 days after completion of the risal damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiary tearrices hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Date: D	rt, shall be limited to the amount paid elved by Cardinal within 30 days after of use, or loss of profits incurred by classed upon any of the above stated rea	pplical			
Relinquished By:	Time:	Received By:		All Results are emailed. Pi O.C. 200 200 Shlujm. (REMARKS:	Please provide Email address:	NOUM, WA	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Corrected Temp. °C .OC	Sample Condition Cool Intact Unes Interes	CHECKED BY:	Turnaround Time: Sta	Standard 🗵 Bacteria (on) Rush Cool Intact □ Yes □ Yes	Bacteria (only) Sample Condition Cool Infact Observed Temp. °C	
	- Contained Cell	Carried Carried accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com	s. Please email chang	jes to celey.keene@card		Corrected Temp. °C	



August 28, 2023

AIMEE COLE
ENSOLUM
3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MCA 409 FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 08/22/23 14:47.

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 accreditated 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)

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

 Received:
 08/22/2023
 Sampling Date:
 08/21/2023

 Reported:
 08/28/2023
 Sampling Type:
 Soil

Project Name: MCA 409 FLOWLINE Sampling Condition: Cool & Intact
Project Number: 03D2057093 Sample Received By: Shalyn Rodriguez

Analyzed By: MS

Project Location: MAVERICK (32.803715, -103.760309)

mg/kg

Sample ID: FS 01 1' (H234570-01)

BTEX 8021B

BIEX GOEED	9/	9	Anaryzo	a 2 y . 1 . 0					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2023	ND	2.09	104	2.00	0.484	
Toluene*	<0.050	0.050	08/25/2023	ND	2.12	106	2.00	0.390	
Ethylbenzene*	<0.050	0.050	08/25/2023	ND	2.07	104	2.00	0.224	
Total Xylenes*	<0.150	0.150	08/25/2023	ND	6.29	105	6.00	0.353	
Total BTEX	<0.300	0.300	08/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.0	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/24/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2023	ND	155	77.6	200	1.22	
DRO >C10-C28*	<10.0	10.0	08/24/2023	ND	146	73.1	200	4.25	
EXT DRO >C28-C36	<10.0	10.0	08/24/2023	ND					
Surrogate: 1-Chlorooctane	78.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.3	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

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

Received: 08/22/2023 Sampling Date: 08/21/2023

Reported: 08/28/2023 Sampling Type: Soil

Project Name: MCA 409 FLOWLINE Sampling Condition: Cool & Intact
Project Number: 03D2057093 Sample Received By: Shalyn Rodriguez

Analyzed By: MS

Project Location: MAVERICK (32.803715, -103.760309)

mg/kg

Sample ID: FS 02 1' (H234570-02)

BTEX 8021B

	9/	9	7111411720						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2023	ND	2.09	104	2.00	0.484	
Toluene*	<0.050	0.050	08/25/2023	ND	2.12	106	2.00	0.390	
Ethylbenzene*	<0.050	0.050	08/25/2023	ND	2.07	104	2.00	0.224	
Total Xylenes*	<0.150	0.150	08/25/2023	ND	6.29	105	6.00	0.353	
Total BTEX	<0.300	0.300	08/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.0	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/24/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2023	ND	155	77.6	200	1.22	
DRO >C10-C28*	<10.0	10.0	08/24/2023	ND	146	73.1	200	4.25	
EXT DRO >C28-C36	<10.0	10.0	08/24/2023	ND					
Surrogate: 1-Chlorooctane	77.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.5	% 49.1-14	8						

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Celey & Keene



Analytical Results For:

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

Received: 08/22/2023 Sampling Date: 08/21/2023

Reported: 08/28/2023 Sampling Type: Soil

Project Name: MCA 409 FLOWLINE Sampling Condition: Cool & Intact
Project Number: 03D2057093 Sample Received By: Shalyn Rodriguez

Analyzed By: MC

Project Location: MAVERICK (32.803715, -103.760309)

ma/ka

Sample ID: FS 03 1' (H234570-03)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2023	ND	2.09	104	2.00	0.484	
Toluene*	<0.050	0.050	08/25/2023	ND	2.12	106	2.00	0.390	
Ethylbenzene*	<0.050	0.050	08/25/2023	ND	2.07	104	2.00	0.224	
Total Xylenes*	<0.150	0.150	08/25/2023	ND	6.29	105	6.00	0.353	
Total BTEX	<0.300	0.300	08/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	08/24/2023	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2023	ND	155	77.6	200	1.22	
DRO >C10-C28*	46.7	10.0	08/24/2023	ND	146	73.1	200	4.25	
EXT DRO >C28-C36	<10.0	10.0	08/24/2023	ND					
Surrogate: 1-Chlorooctane	76.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.4	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

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

Received: 08/22/2023 Sampling Date: 08/21/2023

Reported: 08/28/2023 Sampling Type: Soil

Project Name: MCA 409 FLOWLINE Sampling Condition: Cool & Intact Project Number: 03D2057093 Sample Received By: Shalyn Rodriguez

Project Location: MAVERICK (32.803715, -103.760309)

Sample ID: FS 04 1' (H234570-04)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2023	ND	2.09	104	2.00	0.484	
Toluene*	<0.050	0.050	08/25/2023	ND	2.12	106	2.00	0.390	
Ethylbenzene*	<0.050	0.050	08/25/2023	ND	2.07	104	2.00	0.224	
Total Xylenes*	<0.150	0.150	08/25/2023	ND	6.29	105	6.00	0.353	
Total BTEX	<0.300	0.300	08/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/24/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2023	ND	155	77.6	200	1.22	
DRO >C10-C28*	<10.0	10.0	08/24/2023	ND	146	73.1	200	4.25	
EXT DRO >C28-C36	<10.0	10.0	08/24/2023	ND					
Surrogate: 1-Chlorooctane	78.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.7	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 08/22/2023 Sampling Date: 08/21/2023

Reported: 08/28/2023 Sampling Type: Soil
Project Name: MCA 409 FLOWLINE Sampling Condition: Cool & Intact

Project Number: 03D2057093 Sample Received By: Shalyn Rodriguez
Project Location: MAVERICK (32.803715, -103.760309)

Sample ID: FS 05 1' (H234570-05)

ma/ka

RTFY 8021R

e QC RPD Qualifier 0.484 0.390 0.224 0.353
0.390 0.224
0.224
0.353
e QC RPD Qualifier
0.00
e QC RPD Qualifier
1.22
4.25

Analyzed By: MC

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Celey D. Keene



Notes and Definitions

BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.

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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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINAL Laboratories 101 East Marland, Hobbs, NM 88240

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

Company Name: Ensolum, LLC Project Manager: Aimee Cole Address: 3122 National Parks Hwy			P.D. #: A: Mec (SE)	SENSOLUM	AN	ANALYSIS REQUEST	
Project Manager: Aimee Cole Address: 3122 National Parks Hwy				nsolum			The second second second
Address: 3122 National Parks Hwy							
			Company: BTA Oil				
City: Carlsbad	State: NM Zip	Zip: 88220	Attn: Kevin Jones				
Phone #: 720-384-7365	Fax #:		Address: 104 S Pecos St	¥			
Project #:03D2057093	Project Owner: Maverick		City: Midland				
Project Name: MCA 409 Flowline			State: Texas Zip: 79701				
Project Location:32.803715, -103.760309	60309		Phone #: 432-312-2203				
Sampler Name: Ronni Hayes			Fax #:			,	
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	LING			
Lab I.D. Sample I.D.	(feet) Depth	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	TPH BTEX	CI-		
187	- 1	×	×	1130 x x	×		
2 F502	, 1,	-		1 1 Shill			
3 1503				1218			
h054 h	, 1			1240			
S F505				132 4 4	8		
	11	4	4				
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Relinquished By:	7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Received By:	MARY	Verbal Result:	esult: ☐ Yes ☐ No ☐Add ts are emailed. Please provide E , ,RG e	Add'l Phone #: ide Email address: m, (puls matal (3) Chso) um, com	un, com
Relinquished By:	Date: Re	Received By:	0	REMARKS:) 1	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Corrected Temp. C	Sample Condition Cool Intact Pres Pres	CHECKED BY:	Turnaround Time: Thermometer ID #113 Corrector Factor - 0.556	Standard N	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Yes Yes No Corrected Temp. °C	ample Condition Observed Temp. °C



August 30, 2023

AIMEE COLE ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MCA 409 FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 08/24/23 14:23.

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 accreditated 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.

Celey D. Keine

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



Analytical Results For:

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

 Received:
 08/24/2023
 Sampling Date:
 08/24/2023

 Reported:
 08/30/2023
 Sampling Type:
 Soil

Project Name: MCA 409 FLOWLINE Sampling Condition: Cool & Intact
Project Number: 03D2057093 Sample Received By: Shalyn Rodriguez

Analyzed By: MS

Project Location: MAVERICK (32.803715, -103.760309)

mg/kg

Sample ID: SS 05 @ 11' (H234610-01)

BTEX 8021B

DILX 6021D	ilig	/ Ng	Allalyze	u by. 143					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2023	ND	2.18	109	2.00	2.88	
Toluene*	<0.050	0.050	08/28/2023	ND	2.20	110	2.00	4.36	
Ethylbenzene*	<0.050	0.050	08/28/2023	ND	2.13	106	2.00	3.40	
Total Xylenes*	<0.150	0.150	08/28/2023	ND	6.44	107	6.00	4.73	
Total BTEX	<0.300	0.300	08/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.7	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/28/2023	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2023	ND	170	85.2	200	3.31	
DRO >C10-C28*	<10.0	10.0	08/28/2023	ND	189	94.3	200	8.70	
EXT DRO >C28-C36	<10.0	10.0	08/28/2023	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 08/24/2023 Sampling Date: 08/24/2023

Reported: 08/30/2023 Sampling Type: Soil

Project Name: MCA 409 FLOWLINE Sampling Condition: Cool & Intact Project Number: 03D2057093 Sample Received By: Shalyn Rodriguez

Project Location: MAVERICK (32.803715, -103.760309)

Sample ID: FS 12 @ 4' (H234610-02)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2023	ND	2.18	109	2.00	2.88	
Toluene*	<0.050	0.050	08/28/2023	ND	2.20	110	2.00	4.36	
Ethylbenzene*	<0.050	0.050	08/28/2023	ND	2.13	106	2.00	3.40	
Total Xylenes*	<0.150	0.150	08/28/2023	ND	6.44	107	6.00	4.73	
Total BTEX	<0.300	0.300	08/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	90.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/28/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2023	ND	170	85.2	200	3.31	
DRO >C10-C28*	65.4	10.0	08/28/2023	ND	189	94.3	200	8.70	
EXT DRO >C28-C36	10.3	10.0	08/28/2023	ND					
Surrogate: 1-Chlorooctane	95.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109 9	% 49.1-14	8						

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Celey D. Keene



Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

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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CHAIN-OF CUSTODY AND ANALYSIS REQUEST



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

Company Name: Project Manager: Address: 3172	Abmec Cola National Pages Hay	7in 68076 A	P.O. #: Company: Enfolunt	27	ANALYSIS REQUEST
1	4-75/05		92		
Project Name: 030	720570932	N. January	State: Zip:		
Project Location: 3	7.803715, -103, 7/20359		Phone #:		
Sampler Name:	Romm telder	Fa	Fax #:		
FOR LAB USE ONLY	C	RS TER	PRESERV. SAMPLING	LING	
Lab I.D.	Sample I.D.	(G)RAB OR (C) # CONTAINER GROUNDWAT WASTEWATER SOIL OIL SLUDGE OTHER:	ACID/BASE: ICE / COOL OTHER :	BTEX TPH CI-	
-	55050011	8	×	0907 X X X	
دو ا	4217@A,	×	× भूभाष	115 X X. X	
PLEASE NOTE: Liability and Dame; analyses. All claims including those service. In nevent shall Cardinal be affiliates or successors arising out of	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remody for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be decreased waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without firaliation, business interruptions, loss of tags, or toss of profits incurred by client, its substitutions, affiliation or subsciences arising out of or related to the performance of services hereunder r. Cardinal, regardless of whether such claims behald unless of the above stabled reasons or otherwise.	ony claim arising whether based in contract or tor deemed valwed undess made in writing and reco g without inhalation, business interruptions, loss or justificual, ingardiess of whether such claim is based	t, shall be limited to the amount paid wheel by Cardinal within 30 days after of true, or loss of profits incurred by cits above stade transport and transpo	by the client for the completion of the applicable milk, is substitutions, or otherwise, ones or otherwise.	
Relinquished By:	Pate: Pate: Date: Time:	Received By: Received By:		esult: Tres INO Is are emailed. Please prov (CO) Phositum (GM) (S:	IAdd'i Phone #: ide Email address: Thicomata (19 8050) um Com
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Other: Corrected Temp. °C	Sample Condition Cool Intact Per Yes No No	CHECKED BY:	Turnaround Time: Standard Rush Thermometer ID #140 Correction Factor 0°C	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Yes Yes No Corrected Temp. °C



August 31, 2023

AIMEE COLE ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MCA 409 FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 08/25/23 15:03.

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 accreditated 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.

Celey D. Keine

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



Analytical Results For:

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

Received: 08/25/2023 Sampling Date: 08/25/2023 Reported: 08/31/2023 Sampling Type: Soil

Project Name: MCA 409 FLOWLINE Sampling Condition: Cool & Intact Project Number: 03D2057093 Sample Received By: Tamara Oldaker

Project Location: MAVERICK (32.803715, -103.760309)

Sample ID: FS 10 A 5' (H234648-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2023	ND	1.85	92.5	2.00	2.93	
Toluene*	<0.050	0.050	08/29/2023	ND	2.15	108	2.00	3.91	
Ethylbenzene*	<0.050	0.050	08/29/2023	ND	2.20	110	2.00	4.28	
Total Xylenes*	<0.150	0.150	08/29/2023	ND	6.56	109	6.00	5.27	
Total BTEX	<0.300	0.300	08/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/29/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2023	ND	173	86.3	200	0.892	
DRO >C10-C28*	<10.0	10.0	08/29/2023	ND	172	86.0	200	0.0308	
EXT DRO >C28-C36	<10.0	10.0	08/29/2023	ND					
Surrogate: 1-Chlorooctane	80.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.4	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

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

Received: 08/25/2023 Sampling Date: 08/25/2023

Reported: 08/31/2023 Sampling Type: Soil

Project Name: MCA 409 FLOWLINE Sampling Condition: Cool & Intact
Project Number: 03D2057093 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MAVERICK (32.803715, -103.760309)

mg/kg

Sample ID: FS 11 A 6' (H234648-02)

BTEX 8021B

	979		7						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2023	ND	1.85	92.5	2.00	2.93	
Toluene*	<0.050	0.050	08/29/2023	ND	2.15	108	2.00	3.91	
Ethylbenzene*	<0.050	0.050	08/29/2023	ND	2.20	110	2.00	4.28	
Total Xylenes*	<0.150	0.150	08/29/2023	ND	6.56	109	6.00	5.27	
Total BTEX	<0.300	0.300	08/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 % 71.5-13		4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	08/29/2023	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	08/29/2023	ND	173	86.3	200	0.892	
DRO >C10-C28*	<10.0	10.0	08/29/2023	ND	172	86.0	200	0.0308	
EXT DRO >C28-C36	<10.0	10.0	08/29/2023	ND					
Surrogate: 1-Chlorooctane	78.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.8	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

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

Received: 08/25/2023 Sampling Date: 08/25/2023

Reported: 08/31/2023 Sampling Type: Soil

Project Name: MCA 409 FLOWLINE Sampling Condition: Cool & Intact
Project Number: 03D2057093 Sample Received By: Tamara Oldaker

Analyzed By: 14

Project Location: MAVERICK (32.803715, -103.760309)

ma/ka

Sample ID: FS 06 1' (H234648-03)

RTFY 8021R

Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	08/29/2023	ND	1.85	92.5	2.00	2.93	
<0.050	0.050	08/29/2023	ND	2.15	108	2.00	3.91	
<0.050	0.050	08/29/2023	ND	2.20	110	2.00	4.28	
<0.150	0.150	08/29/2023	ND	6.56	109	6.00	5.27	
<0.300	0.300	08/29/2023	ND					
103 % 71.5-13		4						
mg/kg		Analyzed By: AC						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
144	16.0	08/29/2023	ND	432	108	400	3.64	
mg/kg		Analyzed By: MS						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	08/29/2023	ND	173	86.3	200	0.892	
<10.0	10.0	08/29/2023	ND	172	86.0	200	0.0308	
<10.0	10.0	08/29/2023	ND					
74.1 % 48.2-13		4						
76.7	% 49.1-14	8						
	<0.050 <0.050 <0.050 <0.150 <0.300 103 mg, Result 144 mg, Result <10.0 <10.0 74.1	<0.050 <0.050 <0.050 <0.050 <0.050 <0.150 <0.300 0.300 To a substituting the second of the second	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

Cardinal Laboratories *=Accredited Analyte

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Celey & Keene



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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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

Project Manager: AMAGA	AMee Cole		P.O. #: Areel	E	ANALYSIS REQUEST
City: Capshid	State: MM	Zip: 88220 A	Attn:		
Phone #: 7403847	310S Fax #:		Address:		
Project #: 030057	7093 Project Owner:	Manerica	City:		
Project Name: MCA 400	of Flowline		State: Zip:		
Project Location: 32.80	3715,-103,74	60309 PI	*		
Sampler Name: KMW	Hurs'	Fa	Fax #:		
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	LING	
Lab I.D. Sample I.D.	I.D. Depth (feet)	-	ASE:	FX.	
849ACEH		# CON	CE / COTHE	B'TP CI	
- FXIOA	3'	X	× 8	× × ×	
2 511	(0'	C I X	x	-	
3 F506	1	C / X	X	X	
PLEASE NOTE: Liability and Damages, Cardhalf's listylity and client's exclusive remoth for any claim article selection.	liability and client's exclusive remody for any	Chirp arithmatical based in the chirp arithmatical based in th			
projuses. All claims including those for negligence and any other cause whatboever shall be decrined waked unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without firmitation, business interruptions, loss of use, or loss of profits incurred by clerk, its subsidiaries, including a services or successors arising out of or related to the performance of services hereumder by Cardinal, respondess of whother such claim is based cross are of the obore stated resources or otherwise.	and any other cause whattoever shall be deemed waked unless naterals of consequental damages, including without firnitation, business performance of services hereunder by Cardinal, regardless of who	emed walved unless made in writing and recels throut firmitation, business interruptions, bas of final, regardless of whether such claim is base	the in writing and received by Cardinal within 10 days after one in interruptions, base of use, or loss of profits incurred by clien in interruptions, base of use, or loss of profits incurred by clien the such claim is based (soon any of the above stated reason	rine crem nor me mpletion of the applicable 4, its authoridiaries, rs or otherwise	
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MAN	Time: 503	The promise	Matte	400	Cam incomate Densium. Cam
reinquished by:	Date:	Received By:	R		()
Delivered By: (Circle One)	Observed Temp. °C 33	Sample C	BY:	Turnaround Time: Standard	_
LOKM-000 K 3'5 10/01/51		No No	C.,	Correction Factor 0506 70, 8/25/23	No No Corrected Town of



September 05, 2023

AIMEE COLE
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: MCA 409 FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 08/29/23 12:45.

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 accreditated 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.

Celey D. Keine

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



Analytical Results For:

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

Received: 08/29/2023 Sampling Date: 08/28/2023

Reported: 09/05/2023 Sampling Type: Soil

Project Name: MCA 409 FLOWLINE Sampling Condition: Cool & Intact
Project Number: 03D2057093 Sample Received By: Dionica Hinojos

A ... - I. ... - - I D. ... 311 /

Project Location: MAVERICK 32.803715, -103.760309

Sample ID: SW 01 @ 0-4' (H234685-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2023	ND	1.76	87.9	2.00	0.722	
Toluene*	<0.050	0.050	08/30/2023	ND	1.78	89.2	2.00	0.253	
Ethylbenzene*	<0.050	0.050	08/30/2023	ND	1.84	91.9	2.00	1.19	
Total Xylenes*	<0.150	0.150	08/30/2023	ND	5.40	90.0	6.00	2.13	
Total BTEX	<0.300	0.300	08/30/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/30/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2023	ND	223	112	200	2.90	
DRO >C10-C28*	<10.0	10.0	08/30/2023	ND	222	111	200	0.250	
EXT DRO >C28-C36	<10.0	10.0	08/30/2023	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

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

 Received:
 08/29/2023
 Sampling Date:
 08/28/2023

 Reported:
 09/05/2023
 Sampling Type:
 Soil

Project Name: MCA 409 FLOWLINE Sampling Condition: Cool & Intact
Project Number: 03D2057093 Sample Received By: Dionica Hinojos

Project Location: MAVERICK 32.803715, -103.760309

Sample ID: SW 02 @ 0-4' (H234685-02)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2023	ND	1.76	87.9	2.00	0.722	
Toluene*	<0.050	0.050	08/30/2023	ND	1.78	89.2	2.00	0.253	
Ethylbenzene*	<0.050	0.050	08/30/2023	ND	1.84	91.9	2.00	1.19	
Total Xylenes*	<0.150	0.150	08/30/2023	ND	5.40	90.0	6.00	2.13	
Total BTEX	<0.300	0.300	08/30/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	111	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/30/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2023	ND	188	93.8	200	8.82	
DRO >C10-C28*	24.7	10.0	08/30/2023	ND	195	97.7	200	4.92	
EXT DRO >C28-C36	<10.0	10.0	08/30/2023	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120	% 49.1-14	18						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

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

Received: 08/29/2023 Sampling Date: 08/28/2023 Reported: 09/05/2023 Sampling Type: Soil

Project Name: MCA 409 FLOWLINE Sampling Condition: Cool & Intact Sample Received By: Project Number: 03D2057093 Dionica Hinojos

Project Location: MAVERICK 32.803715, -103.760309

Sample ID: SW 03 @ 0-4' (H234685-03)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2023	ND	1.76	87.9	2.00	0.722	
Toluene*	<0.050	0.050	08/31/2023	ND	1.78	89.2	2.00	0.253	
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	1.84	91.9	2.00	1.19	
Total Xylenes*	<0.150	0.150	08/31/2023	ND	5.40	90.0	6.00	2.13	
Total BTEX	<0.300	0.300	08/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/30/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2023	ND	188	93.8	200	8.82	
DRO >C10-C28*	<10.0	10.0	08/30/2023	ND	195	97.7	200	4.92	
EXT DRO >C28-C36	<10.0	10.0	08/30/2023	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

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

Received: 08/29/2023 Sampling Date: 08/28/2023

Reported: 09/05/2023 Sampling Type: Soil

Project Name: MCA 409 FLOWLINE Sampling Condition: Cool & Intact
Project Number: 03D2057093 Sample Received By: Dionica Hinojos

Analyzed By: 1H /

Project Location: MAVERICK 32.803715, -103.760309

Sample ID: SW 04 @ 0-1' (H234685-04)

RTFY 8021R

B1EX 8021B	mg/kg		Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2023	ND	1.76	87.9	2.00	0.722	
Toluene*	<0.050	0.050	08/31/2023	ND	1.78	89.2	2.00	0.253	
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	1.84	91.9	2.00	1.19	
Total Xylenes*	<0.150	0.150	08/31/2023	ND	5.40	90.0	6.00	2.13	
Total BTEX	<0.300	0.300	08/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/30/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2023	ND	188	93.8	200	8.82	
DRO >C10-C28*	<10.0	10.0	08/30/2023	ND	195	97.7	200	4.92	
EXT DRO >C28-C36	<10.0	10.0	08/30/2023	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124	% 49.1-14	8						

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Analytical Results For:

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

Received: 08/29/2023 Sampling Date: 08/28/2023

Reported: 09/05/2023 Sampling Type: Soil

Project Name: MCA 409 FLOWLINE Sampling Condition: Cool & Intact
Project Number: 03D2057093 Sample Received By: Dionica Hinojos

Analyzed By: 1H /

Project Location: MAVERICK 32.803715, -103.760309

Sample ID: SW 05 @ 0-1' (H234685-05)

RTFY 8021R

BIEX 8021B	mg/kg		Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2023	ND	1.76	87.9	2.00	0.722	
Toluene*	<0.050	0.050	08/31/2023	ND	1.78	89.2	2.00	0.253	
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	1.84	91.9	2.00	1.19	
Total Xylenes*	<0.150	0.150	08/31/2023	ND	5.40	90.0	6.00	2.13	
Total BTEX	<0.300	0.300	08/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/30/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2023	ND	188	93.8	200	8.82	
DRO >C10-C28*	<10.0	10.0	08/30/2023	ND	195	97.7	200	4.92	
EXT DRO >C28-C36	<10.0	10.0	08/30/2023	ND					
Surrogate: 1-Chlorooctane	98.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115	% 49.1-14	8						

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Analytical Results For:

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

 Received:
 08/29/2023
 Sampling Date:
 08/29/2023

 Reported:
 09/05/2023
 Sampling Type:
 Soil

Project Name: MCA 409 FLOWLINE Sampling Condition: Cool & Intact
Project Number: 03D2057093 Sample Received By: Dionica Hinojos

Project Location: MAVERICK 32.803715, -103.760309

Sample ID: SW 06 @ 0-2' (H234685-06)

BTEX 8021B	mg/kg		Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2023	ND	1.76	87.9	2.00	0.722	
Toluene*	<0.050	0.050	08/31/2023	ND	1.78	89.2	2.00	0.253	
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	1.84	91.9	2.00	1.19	
Total Xylenes*	<0.150	0.150	08/31/2023	ND	5.40	90.0	6.00	2.13	
Total BTEX	<0.300	0.300	08/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/30/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2023	ND	188	93.8	200	8.82	
DRO >C10-C28*	<10.0	10.0	08/30/2023	ND	195	97.7	200	4.92	
EXT DRO >C28-C36	<10.0	10.0	08/30/2023	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117 9	% 49.1-14	8						

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Analytical Results For:

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

Received: 08/29/2023 Sampling Date: 08/29/2023

Reported: 09/05/2023 Sampling Type: Soil

Project Name: MCA 409 FLOWLINE Sampling Condition: Cool & Intact
Project Number: 03D2057093 Sample Received By: Dionica Hinojos

Project Location: MAVERICK 32.803715, -103.760309

Sample ID: SW 07 @ 0-2' (H234685-07)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2023	ND	1.76	87.9	2.00	0.722	
Toluene*	<0.050	0.050	08/31/2023	ND	1.78	89.2	2.00	0.253	
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	1.84	91.9	2.00	1.19	
Total Xylenes*	<0.150	0.150	08/31/2023	ND	5.40	90.0	6.00	2.13	
Total BTEX	<0.300	0.300	08/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/30/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2023	ND	188	93.8	200	8.82	
DRO >C10-C28*	<10.0	10.0	08/30/2023	ND	195	97.7	200	4.92	
EXT DRO >C28-C36	<10.0	10.0	08/30/2023	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121	% 49.1-14	8						

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Analytical Results For:

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

Received: 08/29/2023 Sampling Date: 08/28/2023

Reported: 09/05/2023 Sampling Type: Soil

Project Name: MCA 409 FLOWLINE Sampling Condition: Cool & Intact
Project Number: 03D2057093 Sample Received By: Dionica Hinojos

Applyzod By: 1H /

Project Location: MAVERICK 32.803715, -103.760309

Sample ID: FS 13 @ 6' (H234685-08)

RTFY 8021R

BIEX 8021B	mg/kg		Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2023	ND	1.76	87.9	2.00	0.722	
Toluene*	<0.050	0.050	08/31/2023	ND	1.78	89.2	2.00	0.253	
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	1.84	91.9	2.00	1.19	
Total Xylenes*	<0.150	0.150	08/31/2023	ND	5.40	90.0	6.00	2.13	
Total BTEX	<0.300	0.300	08/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	08/30/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2023	ND	188	93.8	200	8.82	
DRO >C10-C28*	<10.0	10.0	08/30/2023	ND	195	97.7	200	4.92	
EXT DRO >C28-C36	<10.0	10.0	08/30/2023	ND					
Surrogate: 1-Chlorooctane	97.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112	% 49.1-14	8						

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Analytical Results For:

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

Received: 08/29/2023 Sampling Date: 08/28/2023

Reported: 09/05/2023 Sampling Type: Soil

Project Name: MCA 409 FLOWLINE Sampling Condition: Cool & Intact
Project Number: 03D2057093 Sample Received By: Dionica Hinojos

Applyzod By: 1H /

Project Location: MAVERICK 32.803715, -103.760309

Sample ID: FS 14 @ 6' (H234685-09)

RTFY 8021R

BIEX 8021B	mg/kg		Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2023	ND	1.76	87.9	2.00	0.722	
Toluene*	<0.050	0.050	08/31/2023	ND	1.78	89.2	2.00	0.253	
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	1.84	91.9	2.00	1.19	
Total Xylenes*	<0.150	0.150	08/31/2023	ND	5.40	90.0	6.00	2.13	
Total BTEX	<0.300	0.300	08/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	08/30/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2023	ND	188	93.8	200	8.82	
DRO >C10-C28*	91.9	10.0	08/30/2023	ND	195	97.7	200	4.92	
EXT DRO >C28-C36	20.5	10.0	08/30/2023	ND					
Surrogate: 1-Chlorooctane	88.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

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Analytical Results For:

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

 Received:
 08/29/2023
 Sampling Date:
 08/28/2023

 Reported:
 09/05/2023
 Sampling Type:
 Soil

Project Name: MCA 409 FLOWLINE Sampling Condition: Cool & Intact
Project Number: 03D2057093 Sample Received By: Dionica Hinojos

Project Location: MAVERICK 32.803715, -103.760309

Sample ID: FS 15 @ 6' (H234685-10)

BTEX 8021B	mg/kg		Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2023	ND	1.76	87.9	2.00	0.722	
Toluene*	0.080	0.050	08/31/2023	ND	1.78	89.2	2.00	0.253	
Ethylbenzene*	0.429	0.050	08/31/2023	ND	1.84	91.9	2.00	1.19	
Total Xylenes*	0.915	0.150	08/31/2023	ND	5.40	90.0	6.00	2.13	
Total BTEX	1.42	0.300	08/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	126	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1200	16.0	08/30/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	27.6	10.0	08/30/2023	ND	188	93.8	200	8.82	
DRO >C10-C28*	1680	10.0	08/30/2023	ND	195	97.7	200	4.92	
EXT DRO >C28-C36	376	10.0	08/30/2023	ND					
Surrogate: 1-Chlorooctane	93.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

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Analytical Results For:

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

Received: 08/29/2023 Sampling Date: 08/28/2023

Reported: 09/05/2023 Sampling Type: Soil
Project Name: MCA 409 FLOWLINE Sampling Condition: Cool & Intact

Project Number: 03D2057093 Sample Received By: Dionica Hinojos Project Location: MAVERICK 32.803715, -103.760309

Sample ID: FS 16 @ 4' (H234685-11)

BTEX 8021B	mg/kg		Analyze	d By: JH/	1/				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2023	ND	1.76	87.9	2.00	0.722	
Toluene*	<0.050	0.050	08/31/2023	ND	1.78	89.2	2.00	0.253	
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	1.84	91.9	2.00	1.19	
Total Xylenes*	<0.150	0.150	08/31/2023	ND	5.40	90.0	6.00	2.13	
Total BTEX	<0.300	0.300	08/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/30/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2023	ND	188	93.8	200	8.82	
DRO >C10-C28*	<10.0	10.0	08/31/2023	ND	195	97.7	200	4.92	
EXT DRO >C28-C36	<10.0	10.0	08/31/2023	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124	% 49.1-14	8						

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Analytical Results For:

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

Received: 08/29/2023 Sampling Date: 08/28/2023

Reported: 09/05/2023 Sampling Type: Soil

Project Name: MCA 409 FLOWLINE Sampling Condition: Cool & Intact
Project Number: 03D2057093 Sample Received By: Dionica Hinojos

Applyzod By: 1H /

Project Location: MAVERICK 32.803715, -103.760309

Sample ID: FS 17 @ 4' (H234685-12)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2023	ND	1.76	87.9	2.00	0.722	
Toluene*	<0.050	0.050	08/31/2023	ND	1.78	89.2	2.00	0.253	
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	1.84	91.9	2.00	1.19	
Total Xylenes*	<0.150	0.150	08/31/2023	ND	5.40	90.0	6.00	2.13	
Total BTEX	<0.300	0.300	08/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/30/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2023	ND	188	93.8	200	8.82	
DRO >C10-C28*	81.7	10.0	08/30/2023	ND	195	97.7	200	4.92	
EXT DRO >C28-C36	18.3	10.0	08/30/2023	ND					
Surrogate: 1-Chlorooctane	124	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	144	% 49.1-14	8						

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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



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

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine

CHAIN-OF CUSTODY AND ANALYSIS REQUEST

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

10.01			Ode 11110		IVINV	Veie DECHEET
Company Name:	TOWN THO		BILL 10		MAIN	ANALIGIO NEGOTO:
Project Manager: 1+1/1	nee Cole	P.O.	.# Airecla	10		
Address: 3/22 N	Parks	Huwa con	Company:			
Carlsh		State: NIM zip: 88276 Attn:	7.			
1e#: 720	3847365 Fax #:		Address:			
031	5 7693 Project Owner:	: Maner 1ch city:				
ime: MCA	409 Floheline		te: Zip:			
on: 37.	710	5,-103,760309 PM	Phone #:			
We Ke	mes.		(#:			
		MATRIX	PRESERV. SAMPLING	LING	7	
Lab I.D. Sa	Sample I.D.	G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	ACID/BASE: CE / COOL OTHER :	〒 ナ ト ト ト ト ー C 1 ー	BTEX	
	Sho1 @ 0-4'	×	×	1365	1	
2 5/	14-0 @20W			(310 1.		
	3W63 @ 6-41			1315		
12 4	Sw04@ 0-1'			1320		
			ψ.	1325		
^	15-0 @ JOWS		8/29/23	1047		
2 5	8		-	1049		
27 73	3/3 @ 6		2/82/8			
	H @ H			1265		
6	7515 @ (o)	<	4	1 1 (52		
and Damages, Carding those for negliging the liable for Cardinal be liable for	's liability and client's exclusive remedy for a ce and any other cause whatsoever shall be cidental or consequental damages, including	ny claim arising whether based in contract or tort beemed waived unless made in writing and recei without limitation, business interruptions, loss of	, shall be limited to the amount paid wed by Cardinal within 30 days after use, or loss of profits incurred by cl	by the client for the completion of the applicable lent, its subsidiaries,		
Relinquished By: Relinquished By: Date: 0/3/1/2/1/2	the performance of services hereunder L. Cal	Received By:	ed upon any of the above stated rea	Sons orderwse. Ves □ No Add'I Phone #: Ves □ No Add'I Phone #: All Results are emailed. Please provide Email address:	□ No Add'I I	hone #:
James	Time: 12:45	Home		3600-1000	acole@ensolum.com	
Relinquished By:	Date:	Received By:		REMARKS:		
	Time:					
Delivered By: (Circle One)	Observed Temp. °C 3.6°C		CHECKED BY:	Turnaround Time:	Standard 🛛	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C
Sampler - UPS - Bus - Other:	Corrected Temp. °C	☐ Yes ☐ Yes		Thermometer ID #140 Correction Factor 0°C	1	☐ Yes ☐ Yes ☐ No ☐ Corrected Temp. °C

CHAIN-OF CUSTODY AND ANALYSIS REQUEST



101 East Marland, Hobbs, NM 88240 aboratories

Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Relinquished By:	MENT	Relinquished By:	service. In no event shall Cardinal be lis	PLEASE NOTE: Liability and Damages				12	//	H234685		Lab I.D.		FOR LAB USE ONLY	Sampler Name:	Project Location: 3	Project Name: M (Project #: 03 Du	Phone #: 720	city: Cuels bord	Address: 3122	Project Manager:	Company Name:	1_
Observed Temp. °C 34°C Other: Corrected Temp. °C &V	Time:	Date:		hed By: Date: Date: Received By:	analyses. All claims including those for negligance and any other cause whatsoever shall be deemed waved unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by clent, its subsidiaries,	PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the				1-517 64 HARZE	TSILE @ LEGILLA	G.		Sample I.D.		(Huncs	in	CA 409 Flowing	377657043 Project Owner:	20 384 7365 Fax#:		Nadary	Amee Cale	Ensolum LLC	(5/5) 393-2326 FAX (5/5) 393-24/6
Sample Condition Cool Intact Yes Yes No No No		Received By:		Received By:	eemed waived unless made in writing and re without limitation, business interruptions, los	y claim arising whether based in contract or				*	×	# CO GRO WAS SOIL OIL SLU	DUNI		S ER	MATRIX		760309	-			State: 1 M Zip: 88 270				1/6
CHECKED BY:		1		based upon any of the above stated	s of use, or loss of profits incurred by	tort, shall be limited to the amount p				4		OTH ACIE OTH DATE	/CO	SE: OL		PRESERV. SAN	Fax #:	Phone #:	State: Zip:	City:	Address:	Attn:	Company:	P.O. #: Amae C	BILL TO	
Turnaround Time: Standard Rush Thermometer ID #140 Correction Factor 0°C		REMARKS:	All Results are emailed. Please provide Email address:	Verbal Result: Yes No	ifter completion of the applicable by client, its subsidiaries,	paid by the client for the				+	8/08/23 759 X X X	TIME	BTCI	TE PH	X	SAMPLING								We		
Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Yes Yes No Corrected Temp. °C		,000	Email address:	Add'l Phone #:																	4				ANALYSIS REQUEST	



September 08, 2023

AIMEE COLE
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: MCA 409 FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 09/06/23 13:56.

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 accreditated 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.

Celey D. Keine

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



Analytical Results For:

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

Received: 09/06/2023 Sampling Date: 09/06/2023 Reported: 09/08/2023 Sampling Type: Soil

Project Name: MCA 409 FLOWLINE Sampling Condition: Cool & Intact Project Number: 03D2057093 Sample Received By: Dionica Hinojos

Project Location: MAVERICK 32.803715, -103.760309

Sample ID: FS 15 A @ 6.25' (H234820-01)

BTEX 8021B	mg/	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/07/2023	ND	2.00	99.9	2.00	0.798	
Toluene*	<0.050	0.050	09/07/2023	ND	1.99	99.4	2.00	6.58	
Ethylbenzene*	<0.050	0.050	09/07/2023	ND	2.09	105	2.00	0.404	
Total Xylenes*	<0.150	0.150	09/07/2023	ND	6.18	103	6.00	1.90	
Total BTEX	<0.300	0.300	09/07/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/07/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/07/2023	ND	184	92.1	200	0.382	
DRO >C10-C28*	<10.0	10.0	09/07/2023	ND	178	89.0	200	2.29	
EXT DRO >C28-C36	<10.0	10.0	09/07/2023	ND					
Surrogate: 1-Chlorooctane	88.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



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

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene

CHAIN-OF-CUSTODY AND & NALYSIS REQUEST

CARDINAI Laboratorie 101 East Marland, Hobbs, NM 88:

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

X DATE TIME X DATE TIME X DATE TIME X DATE TIME X DATE TIME	Client's exclusive remedy for any claim arising whether based in contract or tort near cause whatsover semedy for any claim arising whether based in contract or tort near causes whatsover semedy for any claim arising whether based in contract or tort near causes whatsover in the contract or tort near unantial damages, including without limitation, business interruptions, loss of near causes whether such claim in p Received By:	EASE NOTE: Liability and Damages. Cardinal's liability and abject. All claims including those for negligence and any of vice. In no event shall Cardinal be liable for incidental or collaring trace. The area and any of the collar and the performance in inquisit-ed By:
COOL SE # SS: any	DGE Fast State of the Property	Address: 3(72 N) Address: 3(72 N) City: (100/5) bood Phone #: 120 - 384 Project Name: MUF Project Location: (22 Sampler Name: 120 Sampler



APPENDIX E

NMOCD Notifications

Attachments:

From: Wells, Shelly, EMNRD

To: <u>Aimee Cole</u>

Cc: <u>Bratcher, Michael, EMNRD</u>; <u>Velez, Nelson, EMNRD</u>

Subject: RE: [EXTERNAL] Maverick - Sampling Notification (Week of 8/21/2023)

Date: Wednesday, August 16, 2023 12:57:32 PM

image001.png image002.png image003.png image004.png

You don't often get email from shelly.wells@emnrd.nm.gov. Learn why this is important

[**EXTERNAL EMAIL**]

Good afternoon Aimee,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced Environmental Bureau EMNRD-Oil Conservation Division 1220 S. St. Francis Drive|Santa Fe, NM 87505 (505)469-7520|Shelly.Wells@emnrd.nm.gov http://www.emnrd.state.nm.us/OCD/

From: Aimee Cole <acole@ensolum.com>
Sent: Wednesday, August 16, 2023 12:42 PM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Subject: [EXTERNAL] Maverick - Sampling Notification (Week of 8/21/2023)

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 August 21, 2023.

- MCA 409 Flowline/ NAPP2318846991
 - Sampling Dates: 8/21/2023 8/25/2023
- ABO 3 Battery / nAPP2314448299
 - Sampling Dates: 8/21/2023 8/25/2023

Thank you,



From: Wells, Shelly, EMNRD

To: <u>Aimee Cole</u>

Cc: <u>Bratcher, Michael, EMNRD; Velez, Nelson, EMNRD</u>

Subject: RE: [EXTERNAL] Maverick - Sampling Notification (Week of 8/28/2023)

Date: Wednesday, August 23, 2023 3:33:02 PM
Attachments: image001.png

image001.png image002.png image003.png image004.png

[**EXTERNAL EMAIL**]

Hi Aimee,

The OCD has received your notification. When reporting sampling at multiple locations it is required to provide the 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,

Shelly

Shelly Wells * Environmental Specialist-Advanced Environmental Bureau EMNRD-Oil Conservation Division 1220 S. St. Francis Drive|Santa Fe, NM 87505 (505)469-7520|Shelly.Wells@emnrd.nm.gov http://www.emnrd.state.nm.us/OCD/

From: Aimee Cole <acole@ensolum.com>
Sent: Wednesday, August 23, 2023 1:48 PM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Subject: [EXTERNAL] Maverick - Sampling Notification (Week of 8/28/2023)

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 August 28, 2023.

- MCA 409 Flowline/ NAPP2318846991
 - Sampling Dates: 8/28/2023 8/29/2023

- ABO 3 Battery / nAPP2314448299
 - Sampling Dates: 8/28/2023 8/29/2023
- Grayburg Eumont Strawn Battery / NAPP2302036818
 - Sampling Dates: 8/28/2023
- MCA 95 / NAPP2306757137
 - Sampling Dates: 8/28/2023 9/1/2023
- MCA 301 / NAPP2307558601
 - Sampling Dates: 8/31/2023 9/1/2023

Thank you,



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

Attachments:

From: Wells, Shelly, EMNRD

To: <u>Aimee Cole</u>

Cc: <u>Bratcher, Michael, EMNRD; Velez, Nelson, EMNRD</u>

Subject: RE: [EXTERNAL] Maverick - Sampling Notification (Week of 9/4/2023)

Date: Wednesday, August 30, 2023 2:02:54 PM

image001.png image002.png image003.png

image003.png image004.png

[**EXTERNAL EMAIL**]

Good afternoon Aimee,

The OCD has received your notification. When reporting sampling at multiple locations it is required to provide the 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,

Shelly

Shelly Wells * Environmental Specialist-Advanced Environmental Bureau EMNRD-Oil Conservation Division 1220 S. St. Francis Drive | Santa Fe, NM 87505

(505)469-7520|Shelly.Wells@emnrd.nm.gov

http://www.emnrd.state.nm.us/OCD/

From: Aimee Cole <acole@ensolum.com>
Sent: Wednesday, August 30, 2023 2:28 PM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Subject: [EXTERNAL] Maverick - Sampling Notification (Week of 9/4/2023)

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 4, 2023.

- MCA 409 Flowline/ NAPP2318846991
 - Sampling Date: 9/5/2023
- ABO 3 Battery / nAPP2314448299
 - Sampling Date: 9/5/2023

- Grayburg Eumont Strawn Battery / NAPP2302036818
 - Sampling Date: 9/6/2023
- MCA 301 / NAPP2307558601
 - Sampling Dates: 9/5/2023 9/8/2023

Thank you,



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

From: Enviro, OCD, EMNRD

To: Kalei Jennings

Cc: Bratcher, Michael, EMNRD; Velez, Nelson, EMNRD

Subject: RE: [EXTERNAL] Maverick- Sampling Notification (Week of 7/17/2023)

Date: Friday, July 14, 2023 7:42:46 AM

Attachments: <u>image005.jpg</u>

image006.png image007.png image008.png image009.png

[**EXTERNAL EMAIL**]

Kalei,

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

JH

Jocelyn Harimon • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov

http://www.emnrd.nm.gov



From: Kalei Jennings <kjennings@ensolum.com>

Sent: Thursday, July 13, 2023 2:05 PM

To: Enviro, OCD, EMNRD < OCD.Enviro@emnrd.nm.gov>

Cc: Aimee Cole <acole@ensolum.com>

Subject: [EXTERNAL] Maverick- Sampling Notification (Week of 7/17/2023)

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 17, 2023.

- MCA 204 / NAPP2311751602
 - Sampling Date: 7/17/2023 through 07/19/2023

- State F TG #001 / NAPP2233947938
 - Sampling Date: 7/17/2023 & 7/18/2023
- MCA 409 Flowline / NAPP2318846991
 - Sampling Date: 7/17/2023
- SEMU 34 / NAPP2314257831
 - Sampling Date: 7/19/2023 & 7/20/2023

Thank you,



Kalei Jennings Senior Scientist 817-683-2503 Ensolum, LLC

Released to Imaging: 1/10/2024 4:46:31 PM



APPENDIX F Final 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	NAPP2318846991
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible	Party: Mave	erick Permian, LLC	C	OGRID: 3	31199			
Contact Nam	e: Bryce Wa	agoner		Contact Te	elephone: 928-241-1862			
Contact emai	il: Bryce.Wa	ngoner@mavresou	rces.com	Incident #	(assigned by OCD)			
Contact mail: 1410 NW Co		Hobbs, NM 88240	ı	1				
			Location	of Release So	ource			
Latitude	32.8037	15	(NAD 83 in deci	Longitude _ imal degrees to 5 decin	-103.760309 nal places)			
Site Name: M	ICA 409 Flo	wline		Site Type:				
Date Release	Discovered	: 06/21/2023		API# (if app	olicable) 30-025-38978			
Unit Letter	Section	Township	Range	Coun	nty			
L	27	17S	32E	Lea	a			
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)								
Crude Oil		Volume Release	ed (bbls) 5.7		Volume Recovered (bbls) 0.0			
Produced	Water	Volume Release	ed (bbls)		Volume Recovered (bbls)			
		Is the concentrate produced water	tion of dissolved ch >10,000 mg/l?	nloride in the	☐ Yes ☐ No			
Condensa	te	Volume Release	ed (bbls)		Volume Recovered (bbls)			
Natural G	as	Volume Release	ed (Mcf)		Volume Recovered (Mcf)			
Other (des	scribe)	Volume/Weight	Released (provide	units)	Volume/Weight Recovered (provide units)			
Cause of Rele Release was of fluids were re	caused by da	amage to a flowling source of the rel	e resulting in appro lease has been stop	oximately 5.7 bbls ped and the impac	of crude oil to be released off-pad. No free-standing ted areas have been secured.			

Received by OCD: 9/19/2023/3/30/22/PM State of New Mexico
Page 2 Oil Conservation Division

|--|

Incident ID	NAPP2318846991
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible	party consider this a major release?
☐ Yes ⊠ No		
If YES, was immediate no	otice given to the OCD? By whom? To whom?	When and by what means (phone, email, etc)?
ŕ		
	Initial Respo	onse
The responsible	party must undertake the following actions immediately unle	s they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
∑ The impacted area has	as been secured to protect human health and the e	nvironment.
Released materials ha	ave been contained via the use of berms or dikes,	absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and man	aged appropriately.
	d above have <u>not</u> been undertaken, explain why:	
has begun, please attach	a narrative of actions to date. If remedial effor	ation immediately after discovery of a release. If remediation is have been successfully completed or if the release occurred attach all information needed for closure evaluation.
regulations all operators are public health or the environr failed to adequately investig	required to report and/or file certain release notification ment. The acceptance of a C-141 report by the OCD cate and remediate contamination that pose a threat to get the contamination of the contamination that pose are	my knowledge and understand that pursuant to OCD rules and ns and perform corrective actions for releases which may endanger ones not relieve the operator of liability should their operations have roundwater, surface water, human health or the environment. In ssibility for compliance with any other federal, state, or local laws
	e Wagoner Title: _	
Signature:	Pyrhyr tr Date	:07/05/2023
email:Bryce.Wago	oner@mavresources.com Tele	phone:928-241-1862
OCD Only		
Received by: Shelly W	Vells Date	e: <u>7/7/2023</u>

Received by OCD: 9/19/2023/3/30/22/PM Form C-1+1 State of New Mexico Page 3

Oil Conservation Division

	PageH06cof 1	11
Incident ID	NAPP2318846991	
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?	☐ Yes ⊠ No					
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No					
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No					
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No					
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No					
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No					
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No					
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No					
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No					
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No					
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No					
Did the release impact areas not on an exploration, development, production, or storage site?	X Yes No					
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.						
Characterization Report Checklist: Each of the following items must be included in the report.						
 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well. Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information 	ls.					

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.

☐ Laboratory data including chain of custody

☐ Topographic/Aerial maps

NAPP2318846991

	Pooled Fluids on the Surface									
	Length (ft.)	Width (ft.)	Depth (in)	# of Boundaries *edges of pool where depth is 0. don't count shared boundaries	Oil-Water Ratio (%)		Estimated Average Depth (ft.)	Pooled Volume (bbl.)	Volume of Oil in Subsurface (bbl.)	Volume of Water in Subsurface (bbl.)
Rectangle A	50.0	40.0	12.0	0.0	0.01	2000.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle B					0.01	0.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle C						0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle D						0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle E						0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
	Total Volume (bbls)						ume (bbls):	0.00	0.00	0.00

	Subsurface Fluids									
	Length (ft.)	Width (ft.)	Depth (in.)	Saturation (%) *10% in consolidated sediments after rain to 50% in sand with no precipitation	Oil-Water Ratio (%)	Area (ft²)	Volume (bbl.)	Estimated Volume in Subsurface (bbl.)	Volume of Oil in Subsurface (bbl.)	Volume of Water in Subsurface (bbl.)
Rectangle A	20.0	40.0	6.0	0.1	0.01	800.0	71.2	5.7	0.06	5.6
Rectangle B				0.1	0.01	0.0	0.0	0.0	0.00	0.0
Rectangle C				0.1	0.01	0.0	0.0	0.0	0.00	0.0
Rectangle D				0.1	0.01	0.0	0.0	0.0	0.00	0.0
Rectangle E				0.1	0.01	0.0	0.0	0.0	0.00	0.0
Rectangle F						0.0	0.0	0.0	0.00	0.0
Rectangle G						0.0	0.0	0.0	0.00	0.0
Rectangle H						0.0	0.0	0.0	0.00	0.0
Rectangle I						0.0	0.0	0.0	0.00	0.0
Rectangle J						0.0	0.0	0.0	0.00	0.0
_	Total Volume (bbls): 5.70 0.06 5.64									5.64

TOTAL RELEASE VOLUME (bbls): 5.7

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

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 237291

CONDITIONS

Operator:	OGRID:
Maverick Permian LLC	331199
0,	Action Number:
Houston, TX 77002	237291
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	7/7/2023

Received by OCD: 9/19/2023 3:30:22 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

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Incident ID	NAPP2318846991
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best regulations all operators are required to report and/or file certain release notifical public health or the environment. The acceptance of a C-141 report by the OCD failed to adequately investigate and remediate contamination that pose a threat to addition, OCD acceptance of a C-141 report does not relieve the operator of respand/or regulations.	tions and perform corrective actions for releases which may endanger does not relieve the operator of liability should their operations have groundwater, surface water, human health or the environment. In
Printed Name: Bryce Wagoner	Title: Permian HSE Specialist
Signature: Figure 1	Date: 9/19/2023
email: Bryce. Wagoner@mavresources.com	Telephone: 928-241-1862
OCD Only	
Received by:	Date:

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Incident ID	NAPP2318846991
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 must be notified 2 days prior to liner inspection)	ne liner integrity if applicable (Note: appropriate OCD District office			
☐ Laboratory analyses of final sampling (Note: appropriate ODC Dis	strict office must be notified 2 days prior to final sampling)			
☐ Description of remediation activities				
and regulations all operators are required to report and/or file certain releasing endanger public health or the environment. The acceptance of a C-should their operations have failed to adequately investigate and remedia human health or the environment. In addition, OCD acceptance of a C-compliance with any other federal, state, or local laws and/or regulations restore, reclaim, and re-vegetate the impacted surface area to the conditionaccordance with 19.15.29.13 NMAC including notification to the OCD verified Name: Bryce Wagoner Signature: Bryce Wagoner@mavresources.com	141 report by the OCD does not relieve the operator of liability at contamination that pose a threat to groundwater, surface water, 141 report does not relieve the operator of responsibility for s. The responsible party acknowledges they must substantially ons that existed prior to the release or their final land use in			
OCD Only				
Received by:	Date:			
Closure approval by the OCD does not relieve the responsible party of liar remediate contamination that poses a threat to groundwater, surface water party of compliance with any other federal, state, or local laws and/or re-	r, human health, or the environment nor does not relieve the responsible			
Closure Approved by: Scott Rodgers	Date:01/10/2024			
Printed Name: Scott Rodgers	Title: Environmental Specialist Adv.			

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

CONDITIONS

Action 267198

CONDITIONS

Operator:	OGRID:	
Maverick Permian LLC	331199	
1000 Main Street, Suite 2900	Action Number:	
Houston, TX 77002	267198	
	Action Type:	
	[C-141] Release Corrective Action (C-141)	

CONDITIONS

Created By		Condition Date
scott.rodgers	None	1/10/2024