

August 1, 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

SEMU 34

Incident Number NAPP2314257831

Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Maverick Natural Resources, LLC (Maverick), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities performed at the SEMU 34 (Site). The purpose of the assessment, excavation, and soil sampling activities was to address impacts to soil resulting from a release of crude oil and produced water at the Site. Based on the excavation activities and laboratory analytical results from the soil sampling events, Maverick is submitting this *Closure Request*, describing remediation that has occurred and requesting closure for Incident Number NAPP2314257831.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit J, Section 19, Township 20 South, Range 38 East, in Lea County, New Mexico (32.5571687° N, -103.1877344° W) and is associated with oil and gas exploration and production operations on Federal Land managed by Bureau of Land Management (BLM).

On May 3, 2023, internal corrosion of a surface steel flow line resulted in the release of approximately 1.89 barrels (bbls) of crude oil and 12.88 bbls of produced water onto the surrounding pasture. No released fluids were recovered. Maverick reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on May 17, 2023. The release was assigned Incident Number NAPP2314257831.

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 between 51 and 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geological Survey (USGS) well 323307103113601, located

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 601 North Marienfeld Street | Midland, TX 79701 | ensolum.com Maverick Permian, LLC Closure Request SEMU 34

Page 2

approximately 0.49 miles southwest of the Site. The well has a reported depth to groundwater of 82.73 feet bgs. The next closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well L-15414 POD 1, located approximately 0.54 miles east of the Site. The groundwater well was drilled to a depth of 103 feet bgs during November 2022, and no groundwater was encountered. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well record is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is an intermittent stream, located approximately 7,967 feet east of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is 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: 10,000 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

Between May 12, 2023, and July 28, 2023, site assessment and delineation 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. Five boreholes (BH01 through BH05) were advanced via hand auger within the release extent to assess the vertical extent of the release. Discrete delineation soil samples were collected from boreholes BH01 through BH05 at depths ranging from 1-foot to 4 feet bgs. 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 visits and a photographic log is included in Appendix B.

The assessment and delineation soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported 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



Maverick Permian, LLC Closure Request SEMU 34

Page 3

Closure Criteria and provided lateral definition of the release. Laboratory analytical results for the delineation soil samples collected within the release extent from boreholes BH02 and BH04, indicated that chloride and/or BTEX and TPH concentrations exceeded the Site Closure Criteria and reclamation requirements at depths ranging from 1-foot to 4 feet bgs. Laboratory analytical results for the delineation soil samples collected from boreholes BH01, BH03, and BH05 indicated that all COC concentrations were compliant with the most stringent Table I Closure Criteria. Based on visible staining in the release area and laboratory analytical results for the delineation soil samples, excavation activities were warranted.

EXCAVATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Between July 25, 2023 and July 27, 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 volatile aromatic hydrocarbons (VOCs) utilizing a calibrated photoionization detector (PID) and chloride Hach® chloride QuanTab® test strips. Excavation activities were performed utilizing a track-mounted backhoe and transport vehicles. The excavation was completed to depths ranging from 0.5 feet to 6.5 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 FS28 were collected from the floor of the excavation at depths ranging from 0.5 feet to 6.5 feet bgs. Composite soil samples SW01 through SW10 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 6.5 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 FS28 and excavation sidewall samples SW01 through SW10, 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 are summarized on Table 1 and the complete laboratory analytical reports are included as Appendix C.

The excavation measured approximately 5,335 square feet in areal extent. A total of approximately 260 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Disposal Facility located in Hobbs, New Mexico. After completion of confirmation sampling, the excavation was secured with fencing.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the May 3, 2023, release of crude oil and produced water. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria and reclamation requirements, for samples collected from the top four feet. 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.

Excavation of impacted soil has mitigated impacts at this Site. Depth to groundwater has been estimated to be between 51 and 100 feet bgs and no sensitive receptors were identified near the release extent. Maverick believes the remedial actions completed are protective of human health, the environment, and



Maverick Permian, LLC Closure Request SEMU 34

Page 4

groundwater and respectfully requests closure for Incident NAPP2314257831. NMOCD Notifications are included in Appendix D and the final Form C-141 is included in Appendix E.

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

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

Julianna Falcomata Staff Geologist Aimee Cole

Senior Managing Scientist

cc: Bryce Wagoner, Maverick Natural Resources

New Mexico State Land Office

Appendices:

Figure 1 Site Receptor Map

Figure 2 Assessment and Delineation Soil Sample Locations

Figure 3 Excavation Soil Sample Locations
Table 1 Soil Sample Analytical Results
Appendix A Referenced Well Records

Appendix B Photographic Log

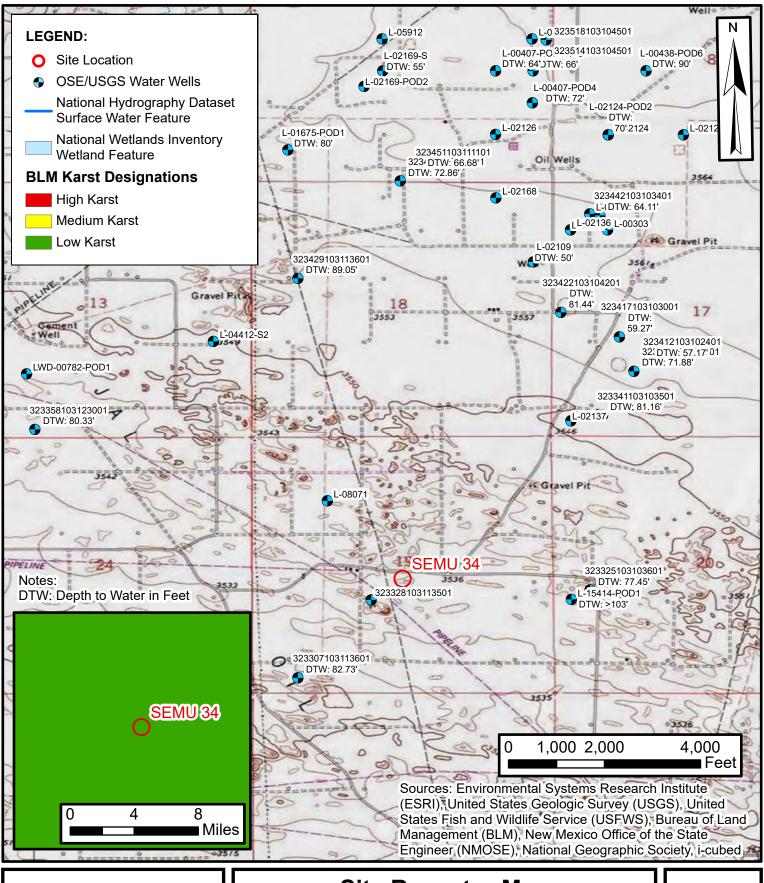
Appendix C Laboratory Analytical Reports & Chain of Custody Documentation

Appendix D NMOCD Notifications

Appendix E Final C-141



FIGURES

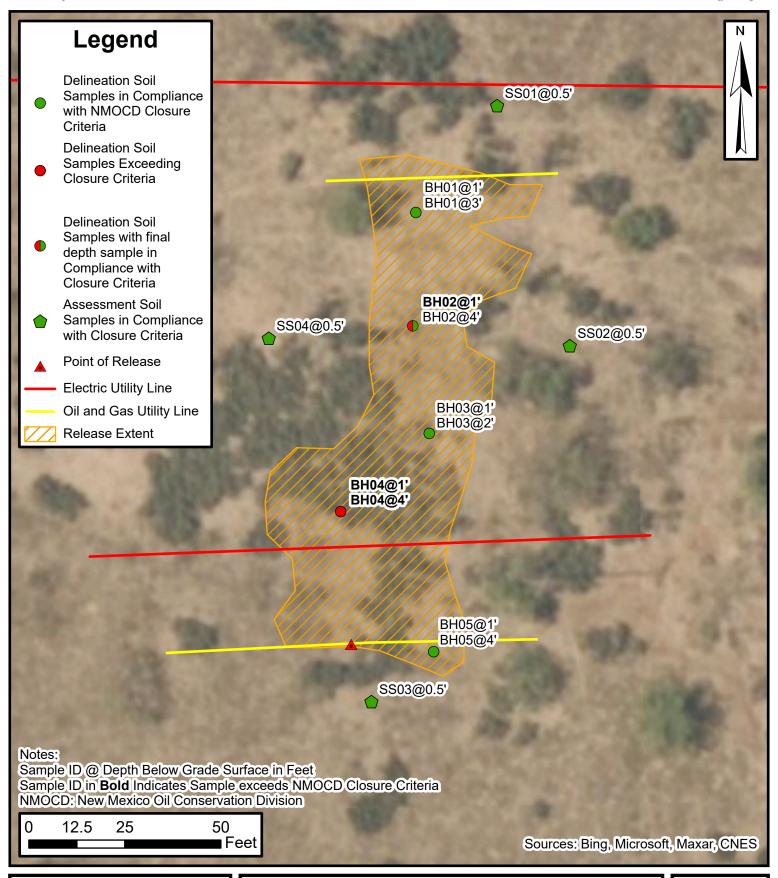




Site Receptor Map

SEMU 34 Maverick Permian, LLC Incident Number: NAPP2314257831 Unit J, Sec 19, T20S, R38E Lea County, New Mexico FIGURE

1



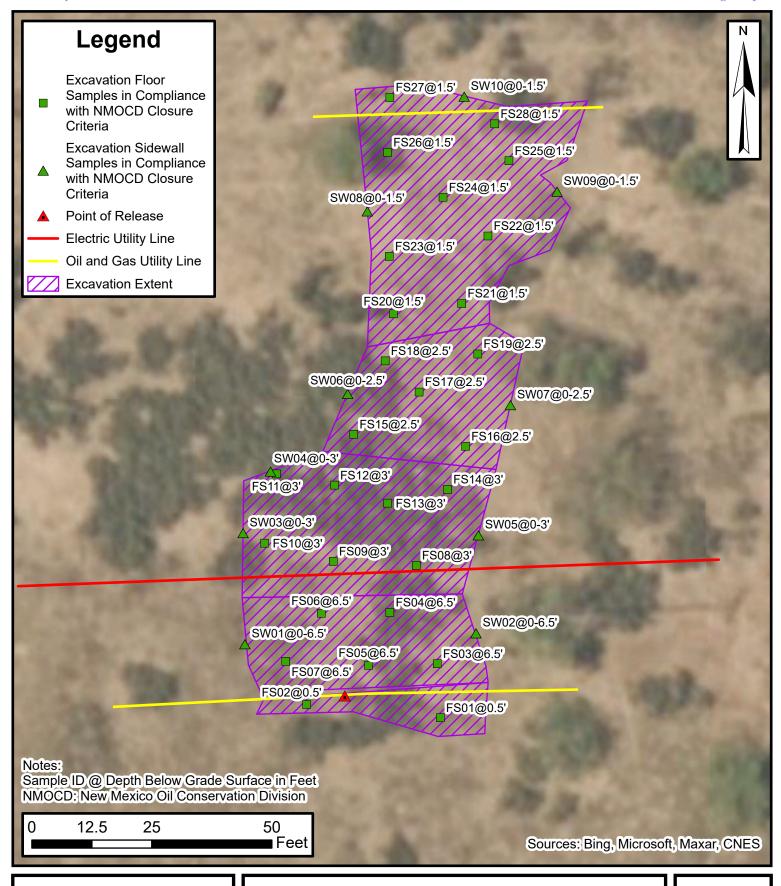


Assessment and Delineation Soil Sample Locations

SEMU 34 Maverick Permian, LLC

Incident Number: NAPP2314257831 Unit J, Sec 19, T20S, R38E Lea County, New Mexico FIGURE

2





Excavation Soil Sample Locations

SEMU 34
Maverick Permian, LLC
Incident Number: NAPP2314257831
Unit J, Sec 19, T20S, R38E
Lea County, New Mexico

FIGURE

3



TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS SEMU 34

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	TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS SEMU 34 Maverick Permian, LLC Lea County, New Mexico Sample Date Depth (feet bgs) Benzene (mg/kg) TPH GRO (mg/kg) TPH DRO (mg/kg) TPH ORO (mg/kg) TPH												
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)			
NMOCD Table 1	1 Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	10,000			
Assessment Soil Samples													
SS01	7/28/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0			
SS02	7/28/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0			
SS03	7/28/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0			
SS04	7/28/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0			
				Deli	neation Soil Sam	ples							
*BH01	5/12/2023	1.0	<0.050	<0.300	<10.0	15.8	<10.0	15.8	15.8	<16.0			
*BH01	5/12/2023	3.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0			
*BH02	5/12/2023	1.0	<0.050	<0.300	<10.0	145.0	30.9	175.9	175.9	96.0			
BH02	5/12/2023	4.0	<0.050	<0.300	<10.0	43.9	<10.0	43.9	43.9	16.0			
*BH03	5/12/2023	1.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0			
*BH03	5/12/2023	2.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0			
*BH04	5/12/2023	1.0	<2.0	80.1	2,660	13,200	2,340	15,860	18,200	2,160			
BH04	5/12/2023	4.0	0.598	72.0	1,680	8,950	1,740	10,630	12,370	13,500			
*BH05	5/12/2023	1.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0			
BH05	5/12/2023	4.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0			
				Excava	ation Floor Soil S	amples							
FS01*	7/25/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0			
FS02*	7/25/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0			
FS03	7/26/2023	6.5	<0.050	<0.300	<10.0	494	119	494	613	624			
FS04	7/26/2023	6.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	576			
FS05	7/26/2023	6.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,220			
FS06	7/26/2023	6.5	<0.050	<0.300	<10.0	565.0	150	565	715	592			
FS07	7/26/2023	6.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,150			
FS08*	7/25/2023	3.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0			
FS09*	7/25/2023	3.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0			
FS10*	7/25/2023	3.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0			



TABLE 1 **SOIL SAMPLE ANALYTICAL RESULTS** SEMU 34

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loride g/kg)	Total TPH (mg/kg)	GRO+DRO (mg/kg)	TPH ORO (mg/kg)	TPH DRO (mg/kg)	County, New Mex TPH GRO (mg/kg)	Lea Total BTEX (mg/kg)	Benzene (mg/kg)	Depth (feet bgs)	Date	Sample Designation
,000	2,500	1,000	NE	NE	NE	50	10	NMAC 19.15.29)	Closure Criteria (NMOCD Table 1
128	<10.0	<10.0	<10.0	<10.0	<10.0	<0.300	<0.050	3.0	7/25/2023	FS11*
16.0	<10.0	<10.0	<10.0	<10.0	<10.0	<0.300	<0.050	3.0	7/25/2023	FS12*
64.0	<10.0	<10.0	<10.0	<10.0	<10.0	<0.300	<0.050	3.0	7/25/2023	FS13*
112	<10.0	<10.0	<10.0	<10.0	<10.0	<0.300	<0.050	3.0	7/25/2023	FS14*
16.0	<10.0	<10.0	<10.0	<10.0	<10.0	<0.300	<0.050	2.5	7/25/2023	FS15*
80.0	<10.0	<10.0	<10.0	<10.0	<10.0	<0.300	<0.050	2.5	7/25/2023	FS16*
32.0	<10.0	<10.0	<10.0	<10.0	<10.0	<0.300	<0.050	2.5	7/25/2023	FS17*
80.0	<10.0	<10.0	<10.0	<10.0	<10.0	<0.300	<0.050	2.5	7/25/2023	FS18*
16.0	<10.0	<10.0	<10.0	<10.0	<10.0	<0.300	<0.050	2.5	7/25/2023	FS19*
16.0	<10.0	<10.0	<10.0	<10.0	<10.0	<0.300	<0.050	1.5	7/26/2023	FS20*
16.0	<10.0	<10.0	<10.0	<10.0	<10.0	<0.300	<0.050	1.5	7/26/2023	FS21*
6.0	<10.0	<10.0	<10.0	<10.0	<10.0	<0.300	<0.050	1.5	7/26/2023	FS22*
16.0	<10.0	<10.0	<10.0	<10.0	<10.0	<0.300	<0.050	1.5	7/26/2023	FS23*
16.0	<10.0	<10.0	<10.0	<10.0	<10.0	<0.300	<0.050	1.5	7/26/2023	FS24*
6.0	<10.0	<10.0	<10.0	<10.0	<10.0	<0.300	<0.050	1.5	7/26/2023	FS25*
16.0	<10.0	<10.0	<10.0	<10.0	<10.0	<0.300	<0.050	1.5	7/26/2023	FS26*
16.0	<10.0	<10.0	<10.0	<10.0	<10.0	<0.300	<0.050	1.5	7/26/2023	FS27*
16.0	<10.0	<10.0	<10.0	<10.0	<10.0	<0.300	<0.050	1.5	7/26/2023	FS28*
				Samples	on Sidewall Soil	Excavation				
16.0	<10.0	<10.0	<10.0	<10.0	<10.0	<0.300	<0.050	0 - 6.5	7/25/2023	SW01*
30.0	<10.0	<10.0	<10.0	<10.0	<10.0	<0.300	<0.050	0 - 6.5	7/25/2023	SW02*
30.0	<10.0	<10.0	<10.0	<10.0	<10.0	<0.300	<0.050	0 - 3	7/25/2023	SW03*
16.0	<10.0	<10.0	<10.0	<10.0	<10.0	<0.300	<0.050	0 - 3	7/25/2023	SW04*
06.0	<10.0	<10.0	<10.0	<10.0	<10.0	<0.300	<0.050	0 - 3	7/25/2023	SW05*
16.0	<10.0	<10.0	<10.0	<10.0	<10.0	<0.300	<0.050	0 - 2.5	7/25/2023	SW06*
6.0	<10.0	<10.0	<10.0	<10.0	<10.0	<0.300	<0.050	0 - 2.5	7/25/2023	SW07*
16.0	<10.0	<10.0	<10.0	<10.0	<10.0	<0.300	<0.050	0 - 1.5	7/26/2023	SW08*

TABLE 1

SOIL SAMPLE ANALYTICAL RESULTS

SEMU 34

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TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS SEMU 34 Maverick Permian, LLC Lea County, New Mexico										
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)		10	50	NE	NE	NE	1,000	2,500	10,000	
SW09*	7/26/2023	0 - 1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW10*	7/26/2023	0 - 1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0

Notes:

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

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

TPH: Total Petroleum Hydrocarbon

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

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

Grey text represents samples that have been excavated

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



APPENDIX A

Referenced Well Records



OSE DII DEC 21 2022 PM3:14

TOTALLY AND TO DEPTH (feet bgl) BORE HOLE FROM TO DEPTH (feet bgl) BORE HOLE GRAVEL PACK SIZE-RANGE BY INTERVAL (cubic feet) DEPTH (feet bgl) BORE HOLE DIAM. (inches) DEPTH (feet bgl) BORE HOLE FROM TO DIAM. (inches) DEPTH (feet bgl) BORE HOLE DIAM. (inches) DEPTH (feet bgl) BORE HOLE DIAM. (inches) DEPTH (feet bgl) BORE HOLE DIAM. (inches) NO CASING IN HOLE DEPTH (feet bgl) BORE HOLE DIAM. (inches) NO CASING IN HOLE DEPTH (feet bgl) BORE HOLE DIAM. (inches) NO CASING IN HOLE DEPTH (feet bgl) BORE HOLE DIAM. (inches) DEPTH (feet bgl) BORE HOLE DIAM. (inches) NO CASING IN HOLE DEPTH (feet bgl) BORE HOLE DIAM. (inches) DEPTH (feet bgl) BORE HOLE DIA													
SEMU BURGER B 108 SEMU BURGER B 108	Z	,		.)		WELL TAG ID NO				O(S).			
SEMU BURGER B 108	ATIO												
SEMU BURGER B 108	203	MAVRICK 1	NATUR	AL RESOURCES					928-241-1	862			
SEMU BURGER B 108	WELL									, 3		88240	ZIP
SEMU BURGER B 108	R	WELL	T	DE									
SEMU BURGER B 108	AL A		_	TITUDE	32	33	23.40	6 N			TH OF A S	SECOND	
SEMU BURGER B 108	NER	(FROM GPS)	LO	NGITUDE	-103	10	41.5	5 W	* DATUM R	EQUIRED: WGS 84			
WD-1184 RUSSELL SOUTHERLAND WEST TEXAS WATER WELL SET TO THE PROMETER OF THE P	1. GE	1			STREET ADDR	ESS AND COMMO	N LANDMAI	RKS – PLS	S (SECTION, 7	OWNSHJIP, RANGE) WI	IERE AVA	ILABLE	
DRILLING STARTED 11/10/2022 11/10/2022 1103 BORE HOLE DEPTH (FT) DEPTH WATER FIRST ENCOUNTERED (FT) 11/10/2022 11/10/20		LICENSE NO.		NAME OF LICENSED	DRILLER		•			NAME OF WELL DR	ILLING CO	OMPANY	
TOTAL TO THE PROPERTY OF THE P		WD-11	84		RUSSE	LL SOUTHER	LAND			WEST TEXAS	S WATE	R WELL SEI	RVICE
COMPLETED WELL IS: ARTESIAN PORY HOLE SHALLOW (UNCONFINED) DRILLING FLUID: AIR MUD ADDITIVES - SPECIFY: DRILLING METHOD: ROTARY HAMMER CABLE TOOL OTHER - SPECIFY: DEPTH (feet bgl) BORE HOLE FROM TO DIAM (inches) NO CASING MATERIAL AND/OR GRADE (include each easing string, and note sections of screen) NO CASING IN HOLE DEPTH (feet bgl) NO CASING IN HOLE DEPTH (feet bgl) BORE HOLE GRAVEL PACK SIZE-RANGE BY INTERVAL (cubic feet) DEPTH (feet bgl) BORE HOLE GRAVEL PACK SIZE-RANGE BY INTERVAL DEPTH (feet bgl) BORE HOLE GRAVEL PACK SIZE-RANGE BY INTERVAL N/A FOR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 04/3) FILE NO. POD NO. TRN NO.													
DEPTH (feet bgl) BORE HOLE LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL (cubic feet) PLACEN FOR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 04/3) FILE NO. POD NO. TRN NO.	7	COMPLETED	E SHALLO	OW (UNCON	FINED)		STATIC WATER LE			ELL (FT)			
DEPTH (feet bgl) BORE HOLE LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL (cubic feet) PLACEN FOR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 04/3) FILE NO. POD NO. TRN NO.	LIO	DRILLING FLU	ЛD:	✓ AIR	MUD	ADDITIV	VES – SPECI	FY:					
DEPTH (feet bgl) BORE HOLE LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL (cubic feet) PLACEN FOR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 04/3) FILE NO. POD NO. TRN NO.	MA				HAMMER	CABLE	TOOL	ОТНЕ	R – SPECIFY:				
DEPTH (feet bgl) BORE HOLE LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL (cubic feet) PLACEN FOR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 04/3) FILE NO. POD NO. TRN NO.	FOR	DEPTH (6	eet hal)		CASING	MATERIAL AND	D/OR			T	T		T
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	1	20			DAMP SAND			Y	✓ N	
	20	25			SANDY CALICHIE			Y	✓ N	
	25	40			TAN, WHITE SAND			Y	✓ N	
	40	60			SAND, SANDSTONE STRE	EAKS		Y	✓ N	
T	60	103			RED SAND			Y	✓ N	
4. HYDROGEOLOGIC LOG OF WELL								Y	N	
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						"TLLL	TIO ID NO.			an analysis and the



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

 \mathbf{X}

NA L 15414 POD1 20 20S 38E 671043 3603587

Driller License: 1184

Driller Company:

WEST TEXAS WATER WELL SERVICE

Driller Name: RUSSELL SOUTHERLAND

Drill Start Date: 11/10/2022 12/21/2022 **Drill Finish Date:**

Plug Date: 11/10/2022

Source:

Log File Date:

PCW Rcv Date:

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size: Depth Well: 103 feet

Depth Water:

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

5/8/23 5:16 PM

POINT OF DIVERSION SUMMARY

National Water Information System: Web Interface

Data Category:		Geographic Area:		
Groundwater	~	United States	~	GO

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Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 323307103113601

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 323307103113601 20S.38E.19.312141

Lea County, New Mexico Latitude 32°33'07", Longitude 103°11'36" NAD27 Land-surface elevation 3,534 feet above NAVD88 The depth of the well is 115 feet below land surface.

This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

ble of data	
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Received by OCD: 8/1/2023 3:21:05 PM

National Water Information System: Web Interface

Data Category:		Geographic Area:		
Groundwater	~	United States	~	GO

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Search Results -- 1 sites found

Agency code = usgs site_no list =

• 323307103113601

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 323307103113601 20S.38E.19.312141

Lea County, New Mexico Latitude 32°33'07", Longitude 103°11'36" NAD27 Land-surface elevation 3,534 feet above NAVD88 The depth of the well is 115 feet below land surface.

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Output formats

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Received by OCD: 8/1/2023 3:21:05 PM

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1954-04-02	2	D	62610		3454.12	NGVD29	1	Z			А
1954-04-02	!	D	62611		3455.23	NAVD88	1	Z			А
1954-04-02	2	D	72019	78.77			1	Z			А
1961-02-28	3	D	62610		3453.28	NGVD29	1	Z			А
1961-02-28	3	D	62611		3454.39	NAVD88	1	Z			А
1961-02-28	3	D	72019	79.61			1	Z			А
1966-03-08	3	D	62610		3446.84	NGVD29	1	Z			А
1966-03-08	3	D	62611		3447.95	NAVD88	1	Z			Α
1966-03-08		D		86.05			1	Z			Α
1968-04-08		D			3451.86	NGVD29	1	Z			А
1968-04-08		D			3452.97	NAVD88	1	Z			А
1968-04-08		D		81.03			1	Z			А
1971-01-28		D			3451.34	NGVD29	1	Z			Α
1971-01-28		D			3452.45	NAVD88	1	Z			Α
1971-01-28		D		81.55			1	Z			Α
1976-01-29		D			3450.16	NGVD29	1	Z			Α
1976-01-29		D			3451.27	NAVD88	1	Z			Α
1976-01-29)	D	72019	82.73			1	Z			Α

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.

ection Code I		Description
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	Α	Approved for publication Processing and review completed.

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<u>U.S. Department of the Interior</u> | <u>U.S. Geological Survey</u> **Title: Groundwater for USA: Water Levels**

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2023-07-27 16:11:33 EDT

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Received by OCD: 8/1/2023 3:21:05 PM

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1954-04-02	2	D	62610		3454.12	NGVD29	1	Z			А
1954-04-02	2	D	62611		3455.23	NAVD88	1	Z			А
1954-04-02	2	D	72019	78.77			1	Z			Д
1961-02-28	3	D	62610		3453.28	NGVD29	1	Z			Д
1961-02-28	3	D	62611		3454.39	NAVD88	1	Z			А
1961-02-28	3	D	72019	79.61			1	Z			А
1966-03-08	3	D	62610		3446.84	NGVD29	1	Z			Д
1966-03-08	3	D	62611		3447.95	NAVD88	1	Z			Д
1966-03-08	3	D	72019	86.05			1	Z			Д
1968-04-08	3	D	62610		3451.86	NGVD29	1	Z			Д
1968-04-08		D			3452.97	NAVD88	1	Z			Д
1968-04-08		D		81.03			1	Z			А
1971-01-28		D			3451.34	NGVD29	1	Z			Д
1971-01-28		D			3452.45	NAVD88	1	Z			А
1971-01-28		D		81.55			1	Z			Д
1976-01-29		D			3450.16	NGVD29	1	Z			Д
1976-01-29		D			3451.27	NAVD88	1	Z			Д
1976-01-29	€	D	72019	82.73			1	Z			А

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.

Section	Code	Description
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	Α	Approved for publication Processing and review completed.

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<u>U.S. Department of the Interior</u> | <u>U.S. Geological Survey</u> **Title: Groundwater for USA: Water Levels**

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2023-07-27 16:11:33 EDT

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National Water Information System: Web Interface

USGS Water Resources

Groundwater **United States** GO

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Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs

site_no list =

• 323325103103601

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 323325103103601 20S.38E.20.11431

Lea County, New Mexico Latitude 32°33'25", Longitude 103°10'36" NAD27

Land-surface elevation 3,540 feet above NAVD88

This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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

Date	Time	? Water-level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measure
1961-02-24		D	62610		3464.67	NGVD29	1	Z		
1961-02-24		D	62611		3465.76	NAVD88	1	Z		
1961-02-24		D	72019	74.24			1	Z		
1966-03-08		D	62610		3461.46	NGVD29	1	Z		
1966-03-08		D	62611		3462.55	NAVD88	1	Z		
1966-03-08		D	72019	77.45			1	Z		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static



National Water Information System: Web Interface

USGS Water Resources	Data Category:	Geographic Area:	
	Water Quality	United States ~	GO

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Water Quality Samples for the Nation

USGS 323328103113501 20S.38E.19.320

Available data for this site	Water-Quality:	Field/Lab samples	~	GO
Lea County, New Mexico				
2202212211 4020441	2411 814 527			

Latitude 32°33'23", Longitude 103°11'21" NAD27 Land-surface elevation 3,538 feet above NGVD29

Site Type: Well

The depth of the well is 115 feet below land surface.

This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer. This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Period of record

Begin Date	End Date	Samples
1954-04-02	1958-09-09	2

Choose Output Format

Retrieve Water-Quality Samples for Selected Sites

Choose one of the following options for displaying data for the sites meeting the criteria above

\circ		
?		
Parameter Group Period of Record table		
\circ		
<u>?</u>		
Inventory of water-quality data For printing 🗸		
\circ		
?		
Tab-separated inventory of water-quality data	Save to file	*



National Water Information System: Web Interface

USGS Water Resources

Geographic Area:

Groundwater United States GO

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Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 323341103103501

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 323341103103501 20S.38E.17.33410

Lea County, New Mexico
Latitude 32°34'01.3", Longitude 103°10'35.2" NAD83
Land-surface elevation 3,548.80 feet above NGVD29
The depth of the well is 116 feet below land surface.
This well is completed in the High Plains aguifor (N100)

This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.

This well is completed in the Ogallala Formation (1210GLL) local aquifer.

Output formats

5 W 5 W 5 W 5 W 5 W 5 W 5 W 5 W 5 W 5 W
Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
1954-03-22		D	62610		3476.84	NGVD29	1	Z		
1954-03-22		D	62611		3477.93	NAVD88	1	Z		
1954-03-22		D	72019	71.96			1	Z		
1961-02-24		D	62610		3477.44	NGVD29	1	Z		
1961-02-24		D	62611		3478.53	NAVD88	1	Z		
1961-02-24		D	72019	71.36			1	Z		
1966-03-08		D	62610		3469.97	NGVD29	1	Z		
1966-03-08		D	62611		3471.06	NAVD88	1	Z		
1966-03-08		D	72019	78.83			1	Z		
1971-01-25		D	62610		3470.70	NGVD29	Р	Z		
1971-01-25		D	62611		3471.79	NAVD88	Р	Z		
1971-01-25		D	72019	78.10			Р	Z		
1976-01-28		D	62610		3469.48	NGVD29	1	Z		
1976-01-28		D	62611		3470.57	NAVD88	1	Z		
1976-01-28		D	72019	79.32			1	Z		
1981-02-06		D	62610		3467.64	NGVD29	Р	Z		

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measure
1981-02-06 1981-02-06		D D	62611 72019	81.16	3468.73	NAVD88	P P		z z	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	Р	Pumping
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	А	Approved for publication Processing and review completed.

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Title: Groundwater for USA: Water Levels

 ${\tt URL:\ https://nwis.waterdata.usgs.gov/nwis/gwlevels?}$

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0.32 0.29 nadww01

USA.gov

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

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0.27 0.24 nadww01





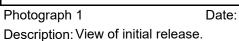
APPENDIX B

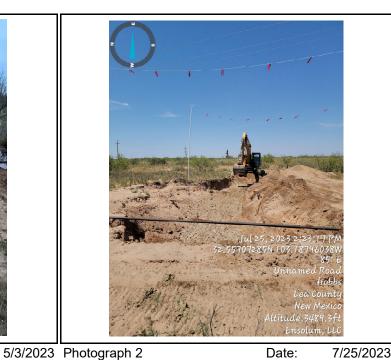
Photographic Log



Photographic Log Maverick Permian, LLC SEMU 34 NAPP2314257831





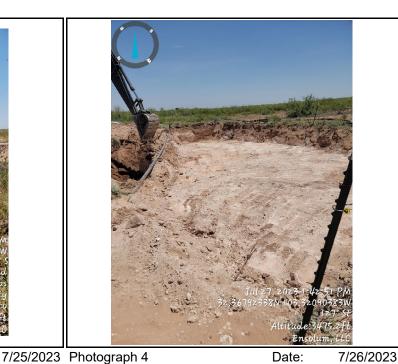


Description: Excavation activities.

July 5, 2075 2 725, 09 P.M.
37. 5573 179N 103, 18790 798W.
168 S.
Unnamed Road
Hobbs
Lea County
New Mexico
Altitude: 3487, 144
Ensolum, Ltd.

Date:

Photograph 3
Description: Excavation activities



Description: Final Excavation extent
View:



APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation



May 18, 2023

KALEI JENNINGS
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: SEMU 34

Enclosed are the results of analyses for samples received by the laboratory on 05/15/23 14:25.

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: 05/15/2023 Sampling Date: 05/12/2023

Reported: 05/18/2023 Sampling Type: Soil

Project Name: SEMU 34 Sampling Condition: Cool & Intact
Project Number: 03D2057078 Sample Received By: Tamara Oldaker

Applyand By 14

Project Location: MAVERICK - 32.5071687-103.1877344

Sample ID: BH 01 1' (H232415-01)

DTEV 0021D

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2023	ND	2.24	112	2.00	3.38	
Toluene*	< 0.050	0.050	05/16/2023	ND	2.22	111	2.00	3.57	
Ethylbenzene*	< 0.050	0.050	05/16/2023	ND	2.15	108	2.00	4.92	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	6.55	109	6.00	4.04	
Total BTEX	<0.300	0.300	05/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	% 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	05/16/2023	ND	416	104	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*	<10.0	10.0	05/16/2023	ND	215	108	200	0.445	
DRO >C10-C28*	15.8	10.0	05/16/2023	ND	193	96.5	200	1.99	
EXT DRO >C28-C36	<10.0	10.0	05/16/2023	ND					
Surrogate: 1-Chlorooctane	134 %	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	149 9	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 05/15/2023 Sampling Date: 05/12/2023

Reported: 05/18/2023 Sampling Type: Soil

Project Name: SEMU 34 Sampling Condition: Cool & Intact
Project Number: 03D2057078 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MAVERICK - 32.5071687-103.1877344

mg/kg

Sample ID: BH 01 3' (H232415-02)

BTEX 8021B

	<u> </u>			. ,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2023	ND	2.24	112	2.00	3.38	
Toluene*	<0.050	0.050	05/16/2023	ND	2.22	111	2.00	3.57	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.15	108	2.00	4.92	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	6.55	109	6.00	4.04	
Total BTEX	<0.300	0.300	05/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/16/2023	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/16/2023	ND	215	108	200	0.445	
DRO >C10-C28*	<10.0	10.0	05/16/2023	ND	193	96.5	200	1.99	
EXT DRO >C28-C36	<10.0	10.0	05/16/2023	ND					
Surrogate: 1-Chlorooctane	138	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	150	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 05/15/2023 Sampling Date: 05/12/2023

Reported: 05/18/2023 Sampling Type: Soil

Project Name: SEMU 34 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 03D2057078

Project Location: MAVERICK - 32.5071687-103.1877344

Sample ID: BH 02 1' (H232415-03)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2023	ND	2.24	112	2.00	3.38	
Toluene*	<0.050	0.050	05/16/2023	ND	2.22	111	2.00	3.57	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.15	108	2.00	4.92	
Total Xylenes*	0.206	0.150	05/16/2023	ND	6.55	109	6.00	4.04	
Total BTEX	<0.300	0.300	05/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/16/2023	ND	416	104	400	3.77	
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	05/16/2023	ND	215	108	200	0.445	
DRO >C10-C28*	145	10.0	05/16/2023	ND	193	96.5	200	1.99	
EXT DRO >C28-C36	30.9	10.0	05/16/2023	ND					
Surrogate: 1-Chlorooctane	113 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	125 9	% 49.1-14	8						

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Celey D. Keene



05/12/2023

Soil

Analytical Results For:

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

Received: 05/15/2023 Sampling Date:
Reported: 05/18/2023 Sampling Type:

Project Name: SEMU 34 Sampling Condition: Cool & Intact
Project Number: 03D2057078 Sample Received By: Tamara Oldaker

Project Location: MAVERICK - 32.5071687-103.1877344

Sample ID: BH 02 4' (H232415-04)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2023	ND	2.24	112	2.00	3.38	
Toluene*	<0.050	0.050	05/16/2023	ND	2.22	111	2.00	3.57	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.15	108	2.00	4.92	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	6.55	109	6.00	4.04	
Total BTEX	<0.300	0.300	05/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	05/16/2023	ND	416	104	400	3.77	
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	05/16/2023	ND	215	108	200	0.445	
DRO >C10-C28*	43.9	10.0	05/16/2023	ND	193	96.5	200	1.99	
EXT DRO >C28-C36	<10.0	10.0	05/16/2023	ND					
Surrogate: 1-Chlorooctane	118	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	131	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 05/15/2023 Sampling Date: 05/12/2023

Reported: 05/18/2023 Sampling Type: Soil

Project Name: SEMU 34 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03D2057078 Tamara Oldaker

Project Location: MAVERICK - 32.5071687-103.1877344

Sample ID: BH 03 1' (H232415-05)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2023	ND	2.24	112	2.00	3.38	
Toluene*	<0.050	0.050	05/16/2023	ND	2.22	111	2.00	3.57	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.15	108	2.00	4.92	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	6.55	109	6.00	4.04	
Total BTEX	<0.300	0.300	05/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/16/2023	ND	416	104	400	3.77	
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	05/16/2023	ND	215	108	200	0.445	
DRO >C10-C28*	<10.0	10.0	05/16/2023	ND	193	96.5	200	1.99	
EXT DRO >C28-C36	<10.0	10.0	05/16/2023	ND					
Surrogate: 1-Chlorooctane	129	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	143	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

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

Received: 05/15/2023

05/18/2023

Project Name: SEMU 34
Project Number: 03D2057078

Project Location: MAVERICK - 32.5071687-103.1877344

Sampling Date: 05/12/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BH 03 2' (H232415-06)

Reported:

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	05/16/2023	ND	2.24	112	2.00	3.38	
Toluene*	<0.050	0.050	05/16/2023	ND	2.22	111	2.00	3.57	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.15	108	2.00	4.92	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	6.55	109	6.00	4.04	
Total BTEX	<0.300	0.300	05/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					

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	05/16/2023	ND	416	104	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*	<10.0	10.0	05/16/2023	ND	215	108	200	0.445	
DRO >C10-C28*	<10.0	10.0	05/16/2023	ND	193	96.5	200	1.99	
EXT DRO >C28-C36	<10.0	10.0	05/16/2023	ND					

Surrogate: 1-Chlorooctane 135 % 48.2-134 Surrogate: 1-Chlorooctadecane 147 % 49.1-148

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Celey D. Keine



05/12/2023

Cool & Intact

Soil

Analytical Results For:

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

Received: 05/15/2023 Reported:

Sampling Date: 05/18/2023 Sampling Type:

Sampling Condition:

Project Name: SEMU 34 Project Number:

Sample Received By: Tamara Oldaker 03D2057078

Project Location: MAVERICK - 32.5071687-103.1877344

Sample ID: BH 04 1' (H232415-08)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	05/16/2023	ND	2.24	112	2.00	3.38	
Toluene*	4.87	2.00	05/16/2023	ND	2.22	111	2.00	3.57	
Ethylbenzene*	9.39	2.00	05/16/2023	ND	2.15	108	2.00	4.92	
Total Xylenes*	65.8	6.00	05/16/2023	ND	6.55	109	6.00	4.04	
Total BTEX	80.1	12.0	05/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	122 :	% 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	2160	16.0	05/16/2023	ND	416	104	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*	2660	100	05/16/2023	ND	215	108	200	0.445	
DRO >C10-C28*	13200	100	05/16/2023	ND	193	96.5	200	1.99	
EXT DRO >C28-C36	2340	100	05/16/2023	ND					
Surrogate: 1-Chlorooctane	378	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	290	% 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 KALEI JENNINGS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 05/15/2023 Sampling Date: 05/12/2023

Reported: 05/18/2023 Sampling Type: Soil

Project Name: SEMU 34 Sampling Condition: Cool & Intact
Project Number: 03D2057078 Sample Received By: Tamara Oldaker

Analyzed By: JH/

Project Location: MAVERICK - 32.5071687-103.1877344

mg/kg

Sample ID: BH 04 4' (H232415-09)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.598	0.100	05/16/2023	ND	2.08	104	2.00	3.27	GC-NC1
Toluene*	7.82	0.100	05/16/2023	ND	2.08	104	2.00	1.45	QM-07
Ethylbenzene*	12.5	0.100	05/16/2023	ND	2.18	109	2.00	2.45	QM-07
Total Xylenes*	51.1	0.300	05/16/2023	ND	6.50	108	6.00	3.16	QM-07
Total BTEX	72.0	0.600	05/16/2023	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	174	% 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	13500	16.0	05/16/2023	ND	416	104	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*	1680	100	05/16/2023	ND	215	108	200	0.445	
DRO >C10-C28*	8950	100	05/16/2023	ND	193	96.5	200	1.99	
EXT DRO >C28-C36	1740	100	05/16/2023	ND					
Surrogate: 1-Chlorooctane	243	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	209	% 49.1-14	8						

Surrogate: 1-Chlorooctadecane 209 % 49.1-148

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Celey D. Keine



Analytical Results For:

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

Received: 05/15/2023 Sampling Date: 05/12/2023

Reported: 05/18/2023 Sampling Type: Soil

Project Name: SEMU 34 Sampling Condition: Cool & Intact
Project Number: 03D2057078 Sample Received By: Tamara Oldaker

Analyzed By: JH/

Project Location: MAVERICK - 32.5071687-103.1877344

mg/kg

Sample ID: BH 05 1' (H232415-10)

BTEX 8021B

	9/	9	7	1					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2023	ND	2.08	104	2.00	3.27	
Toluene*	<0.050	0.050	05/16/2023	ND	2.08	104	2.00	1.45	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.18	109	2.00	2.45	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	6.50	108	6.00	3.16	
Total BTEX	<0.300	0.300	05/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 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	05/16/2023	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	05/16/2023	ND	215	108	200	0.445	
DRO >C10-C28*	<10.0	10.0	05/16/2023	ND	193	96.5	200	1.99	
EXT DRO >C28-C36	<10.0	10.0	05/16/2023	ND					
Surrogate: 1-Chlorooctane	120	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	129	% 49.1-14	8						

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05/12/2023

Soil

Analytical Results For:

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

Received: 05/15/2023

Reported: 05/18/2023 Sampling Type:

Project Name: SEMI 34 Sampling Condition:

Project Name: SEMU 34 Sampling Condition: Cool & Intact
Project Number: 03D2057078 Sample Received By: Tamara Oldaker

Applyzod By: 1H /

Sampling Date:

Project Location: MAVERICK - 32.5071687-103.1877344

Sample ID: BH 05 4' (H232415-11)

RTFY 8021R

B1EX 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	05/16/2023	ND	2.08	104	2.00	3.27	
Toluene*	<0.050	0.050	05/16/2023	ND	2.08	104	2.00	1.45	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.18	109	2.00	2.45	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	6.50	108	6.00	3.16	
Total BTEX	<0.300	0.300	05/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 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	32.0	16.0	05/16/2023	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	05/16/2023	ND	215	108	200	0.445	
DRO >C10-C28*	<10.0	10.0	05/16/2023	ND	193	96.5	200	1.99	
EXT DRO >C28-C36	<10.0	10.0	05/16/2023	ND					
Surrogate: 1-Chlorooctane	130	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	142	% 49.1-14	8						

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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.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
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

Manne: Encolum, LLC State: Mill Jap: SCLD Attn: Attn: Attn: Attn:	(575) 393-2326	326 FAX (575) 393-2476	92	ANALYSIS REQUEST
State: MACOUNT State: MACOUNT ACTION ACTIONS State: MACOUNT ACTION ACTIONS State: MACOUNT ACTION ACTIONS Fox #: Project Owner: MAUNIAL State: Zip: Phone #: Zip: Phone #: Zip: Phone #: Zip: Phone #: Zip: Phone #: Zip: Phone #: Zip: Phone #: Zip: Phone #: Zip: Phone #: Zip: Phone #: Zip: Phone #: Zip: Phone #: Zip: Phone #: Zip: Phone #: Zip: Phone #: Zip: Phone #: Zip: Phone #: Zip: Phone #: Zip: Phone #: Zip: Phone #:	Company Name: Ensolum, LL	C	CAROLI	
State: MINZIP: SCHOOL ART. Address: Address:	Project Manager: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	leminas.	R	
State: MIVER Project Owner; MUNICIPAL City: State: Zip: Shample I.D. (feet) PARTIE AND STEWN SAMPLING PRESERV SAMPLI	Address: 877 NOLT	LOWER HUNK	Company:	
Address: Address	city: Day Spela	3	Attn:	
Sample I.D. Depth R 2 MARIX PRESERVY MARIX MARIX PRESERVY MARIX PRESERVY MARIX MARIX MARIX PRESERVY MARIX MA	Phone #: 411-1562	SB Fax #:	Address:	
Sample I.D. (feet) Depth (OR INEL ASSI) (Feet) A District Francisco Condition Time: Received By: Received Temp. *C Constitution By: Received Temp. *C Constitution By: Received Temp. *C Received	Project #: 030 7057	MOM	City:	
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Sample I.D. (feet) Depth (City of Control o	Proiect Location: 22 S0	11/87, -108, 1877, 344	Phone #:	
Sample I.D. (feet) Constitution	Sampler Name:	nor Palcomorta		
MAC Please provide Email address: Time: Standard Bacteria (only) Sample Condition Cool Infact Observed Temp. °C Per 0.5°C Observed Temp. °C Cool No Corrected Temp. °C	FOR LAB USE ONLY		PRESERV.	
### Standard Standard Standard Scool Infact Observed Temp. °C		(feet) O OR (C)OMP TAINERS NDWATER	R: BASE: COOL	PH 3TEX Unior
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tt:	2 8HD1	0		
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tt:	20119 1	7.7		5
Time: Standard Standard Cool Intact Observed Temp. °C	0	7		20
tt:	1 SUH 2	700		X
Time: Standard Standard Cool Intact Observed Temp. °C	8.	14		40
It:	8 BHOH	2		
Time: Standard Bacteria (only) Sample Condition Rush Cool Intact Observed Temp. °C Por -0.5°C Model Phone #: Rush Cool Intact Observed Temp. °C Rush No Corrected Temp. °C	10 7H)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	e client for the
It: Yes No Add'I Phone #: Ire emailed. Please provide Email address: Ire emailed. Please provide Email address: Image: Standard Bacteria (only) Sample Condition Image: Standard Cool Infact Observed Temp. °C Image: No Screeted Temp. °C In No No Corrected Temp. °C	PLEASE NOTE: Liability and Damages, Cardinals analyses. All claims including those for negligence service. In no event shall Cardinal be liable for inci-	and any other cause whatsoever shall be deemed waived unless made in dental or consequental damages, including without limitation, business into	writing and received by Cardinal within 30 days after com rruptions, loss of use, or loss of profits incurred by client, such claim is based upon any of the above stated reasons	pplicable
Time: Date: Received By: Re	affiliates or successors arising out of or related to the Relinquished By:	Date: Received By:	Ve	ilt: Yes
Date: Received By: Column Checked By: Remarks:	No.	SOS SEGUITA	Conces	Statute Man Umigeting
Time: Observed Temp. °C O. Sample Condition CHECKED BY: Turnaround Time: Standard Macteria (only) Standard Cool Intact (mitials) The Most Test Cool Intact Coo	Relinquished By:		Z.	1
Cool Infact Corrected Temp. °C 7 Yes Yes No.		Time:		0.0 011 1100
Carrected Temp. °C 7.7 Yes. Yes S Carrection Fictor -0.5°C No No No No	Delivered By: (Circle One)	Tomp. °C 0.10	CHECKED BY:	Rush Cool Intact
	Sampler - UPS - Bus - Other:	Tomp. °C 0.7	5	SCORE

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINAL Laboratories 101 East Marland, Hobbs, NM 882

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

(5/5) 393-2326	2326 FAX (3/3) 333-24/6			
Company Name: Ensolum, LLC	, C	BILL TO	ANALYSIS REQUEST	1
Project Manager: MON P	lennings	P.O. #: H. M		_
Address: 377 Nat	Parks Hull	Company:		
city: () OUTSDEWO	State: \ Zip: 88720	Attn:		
Phone #: \$ 7 /083-	25B Fax#:	Address:		_
Project #: (%D 9057)	778 Project Owner: Wallach	City:		_
Project Name:	24	State: Zip:		
Project Location; 92, 50	11657 -103 1571344	Phone #:		_
Sampler Name:	na Callamata	Fax #:	25	
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING		_
Lab I.D. Sample I.D.	I.D. (feet) (fee	THER: CID/BASE: E / COOL THER:	TPH BTEX Chloric	
11 8H05	1 7		56 XXXX	
PLEASE NOTE: Liability and Damages, Cardinal's analyses, All claims including those for negligence service. In no event shall Cardinal be liable for incir	ent car	ct or fort, shall be limited to the amount paid by the ind received by Cardinal within 30 days after comp yet of use, or loss of profits incurred by client, it is haved unon one of the above stated treasons.	e client for the selection of the applicable selection of the applicable selection of the applicable or or therefore.	
	Date: 18 Received By: Verbal Results All Results	d Eigner Alli	Verbal Result:	Demo
Relinquished By:	Date: Received By:	Z	3	
Delivered By: (Circle One)		n CHECKED BY: (Initials)	Standard A B	
Sampler - UPS - Bus - Other:	Corrected Temp. C-0.72 Yes	07	Thermometer ID - #113 Corrected Temp. °C No No Corrected Temp. °C	

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



July 26, 2023

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: SEMU 34

Enclosed are the results of analyses for samples received by the laboratory on 07/25/23 15:18.

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: 07/25/2023 Sampling Date: 07/25/2023

Reported: 07/26/2023 Sampling Type: Soil Project Name: SEMU 34 Sampling Condition: Coo

Project Name: SEMU 34 Sampling Condition: Cool & Intact
Project Number: 03D2057078 Sample Received By: Tamara Oldaker

Project Location: MAVERICK (32.5071687-103.1877344)

Sample ID: FS 16 @ 2.5' (H233880-01)

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	07/26/2023	ND	2.03	102	2.00	0.753	
Toluene*	<0.050	0.050	07/26/2023	ND	1.92	95.8	2.00	0.0636	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	2.02	101	2.00	0.0108	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	6.02	100	6.00	0.420	
Total BTEX	<0.300	0.300	07/26/2023	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	80.0	16.0	07/26/2023	ND	448	112	400	3.51	
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	07/26/2023	ND	174	86.8	200	10.2	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	187	93.7	200	4.37	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					
Surrogate: 1-Chlorooctane	114	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	127	% 49.1-14	8						

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Analytical Results For:

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

Received: 07/25/2023 Sampling Date: 07/25/2023

Reported: 07/26/2023 Sampling Type: Soil

Project Name: SEMU 34 Sampling Condition: Cool & Intact
Project Number: 03D2057078 Sample Received By: Tamara Oldaker

Project Location: MAVERICK (32.5071687-103.1877344)

Sample ID: FS 17 @ 2.5' (H233880-02)

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	07/26/2023	ND	2.03	102	2.00	0.753	
Toluene*	<0.050	0.050	07/26/2023	ND	1.92	95.8	2.00	0.0636	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	2.02	101	2.00	0.0108	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	6.02	100	6.00	0.420	
Total BTEX	<0.300	0.300	07/26/2023	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	32.0	16.0	07/26/2023	ND	448	112	400	3.51	
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	07/26/2023	ND	174	86.8	200	10.2	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	187	93.7	200	4.37	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					
Surrogate: 1-Chlorooctane	116	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	129	% 49.1-14	8						

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Analytical Results For:

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

Received: 07/25/2023 Sampling Date: 07/25/2023

Reported: 07/26/2023 Sampling Type: Soil

Project Name: SEMU 34 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03D2057078 Tamara Oldaker

Project Location: MAVERICK (32.5071687-103.1877344)

Sample ID: FS 18 @ 2.5' (H233880-03)

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	07/26/2023	ND	2.03	102	2.00	0.753	
Toluene*	<0.050	0.050	07/26/2023	ND	1.92	95.8	2.00	0.0636	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	2.02	101	2.00	0.0108	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	6.02	100	6.00	0.420	
Total BTEX	<0.300	0.300	07/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	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	80.0	16.0	07/26/2023	ND	448	112	400	3.51	
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	07/26/2023	ND	174	86.8	200	10.2	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	187	93.7	200	4.37	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					
Surrogate: 1-Chlorooctane	117 9	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	127 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: 07/25/2023 Sampling Date: 07/25/2023

Reported: 07/26/2023 Sampling Type: Soil

Project Name: SEMU 34 Sampling Condition: Cool & Intact
Project Number: 03D2057078 Sample Received By: Tamara Oldaker

Project Location: MAVERICK (32.5071687-103.1877344)

Sample ID: FS 19 @ 2.5' (H233880-04)

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	07/26/2023	ND	2.03	102	2.00	0.753	
Toluene*	<0.050	0.050	07/26/2023	ND	1.92	95.8	2.00	0.0636	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	2.02	101	2.00	0.0108	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	6.02	100	6.00	0.420	
Total BTEX	<0.300	0.300	07/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 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	07/26/2023	ND	448	112	400	3.51	
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	07/26/2023	ND	174	86.8	200	10.2	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	187	93.7	200	4.37	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114	% 49.1-14	8						

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Analytical Results For:

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

Received: 07/25/2023 Sampling Date: 07/25/2023

Reported: 07/26/2023 Sampling Type: Soil

Project Name: SEMU 34 Sampling Condition: Cool & Intact
Project Number: 03D2057078 Sample Received By: Tamara Oldaker

Project Location: MAVERICK (32.5071687-103.1877344)

Sample ID: SW 01 @ 0-6.5' (H233880-05)

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	07/26/2023	ND	2.03	102	2.00	0.753	
Toluene*	<0.050	0.050	07/26/2023	ND	1.92	95.8	2.00	0.0636	
Ethylbenzene*	< 0.050	0.050	07/26/2023	ND	2.02	101	2.00	0.0108	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	6.02	100	6.00	0.420	
Total BTEX	<0.300	0.300	07/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 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	07/26/2023	ND	448	112	400	3.51	
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	07/26/2023	ND	174	86.8	200	10.2	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	187	93.7	200	4.37	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120	% 49.1-14	8						

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Analytical Results For:

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

Received: 07/25/2023 Sampling Date: 07/25/2023

Reported: 07/26/2023 Sampling Type: Soil

Project Name: SEMU 34 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03D2057078 Tamara Oldaker

Project Location: MAVERICK (32.5071687-103.1877344)

Sample ID: SW 02 @ 0-6.5' (H233880-06)

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	07/26/2023	ND	2.03	102	2.00	0.753	
Toluene*	<0.050	0.050	07/26/2023	ND	1.92	95.8	2.00	0.0636	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	2.02	101	2.00	0.0108	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	6.02	100	6.00	0.420	
Total BTEX	<0.300	0.300	07/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 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	80.0	16.0	07/26/2023	ND	448	112	400	3.51	
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	07/26/2023	ND	174	86.8	200	10.2	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	187	93.7	200	4.37	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					
Surrogate: 1-Chlorooctane	111 9	% 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: 07/25/2023 Sampling Date: 07/25/2023

Reported: 07/26/2023 Sampling Type: Soil

Project Name: SEMU 34 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03D2057078 Tamara Oldaker

Project Location: MAVERICK (32.5071687-103.1877344)

Sample ID: SW 03 @ 0-3' (H233880-07)

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	07/26/2023	ND	2.03	102	2.00	0.753	
Toluene*	<0.050	0.050	07/26/2023	ND	1.92	95.8	2.00	0.0636	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	2.02	101	2.00	0.0108	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	6.02	100	6.00	0.420	
Total BTEX	<0.300	0.300	07/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 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	80.0	16.0	07/26/2023	ND	448	112	400	3.51	
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	07/26/2023	ND	174	86.8	200	10.2	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	187	93.7	200	4.37	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					
Surrogate: 1-Chlorooctane	112 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126	% 49.1-14	8						

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Analytical Results For:

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

Received: 07/25/2023 Sampling Date: 07/25/2023

Reported: 07/26/2023 Sampling Type: Soil

Project Name: SEMU 34 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 03D2057078

Project Location: MAVERICK (32.5071687-103.1877344)

Sample ID: SW 04 @ 0-3' (H233880-08)

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	07/26/2023	ND	2.03	102	2.00	0.753	
Toluene*	<0.050	0.050	07/26/2023	ND	1.92	95.8	2.00	0.0636	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	2.02	101	2.00	0.0108	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	6.02	100	6.00	0.420	
Total BTEX	<0.300	0.300	07/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/26/2023	ND	448	112	400	3.51	
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	07/26/2023	ND	174	86.8	200	10.2	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	187	93.7	200	4.37	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					
Surrogate: 1-Chlorooctane	110 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119 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: 07/25/2023 Sampling Date: 07/25/2023

Reported: 07/26/2023 Sampling Type: Soil

Project Name: SEMU 34 Sampling Condition: Cool & Intact
Project Number: 03D2057078 Sample Received By: Tamara Oldaker

Analyzed By: JH/

Project Location: MAVERICK (32.5071687-103.1877344)

mg/kg

Sample ID: SW 05 @ 0-3' (H233880-09)

BTEX 8021B

	9/	9		/ /					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2023	ND	2.03	102	2.00	0.753	
Toluene*	<0.050	0.050	07/26/2023	ND	1.92	95.8	2.00	0.0636	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	2.02	101	2.00	0.0108	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	6.02	100	6.00	0.420	
Total BTEX	<0.300	0.300	07/26/2023	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	96.0	16.0	07/26/2023	ND	448	112	400	3.51	
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	07/26/2023	ND	174	86.8	200	10.2	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	187	93.7	200	4.37	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119	% 49.1-14	8						

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Analytical Results For:

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

Received: 07/25/2023 Sampling Date: 07/25/2023

Reported: 07/26/2023 Sampling Type: Soil

Project Name: SEMU 34 Sampling Condition: Cool & Intact
Project Number: 03D2057078 Sample Received By: Tamara Oldaker

Project Location: MAVERICK (32.5071687-103.1877344)

Sample ID: SW 06 @ 0-2.5' (H233880-10)

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	07/26/2023	ND	2.03	102	2.00	0.753	
Toluene*	<0.050	0.050	07/26/2023	ND	1.92	95.8	2.00	0.0636	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	2.02	101	2.00	0.0108	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	6.02	100	6.00	0.420	
Total BTEX	<0.300	0.300	07/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 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	07/26/2023	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	07/26/2023	ND	197	98.5	200	0.542	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	209	104	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					
Surrogate: 1-Chlorooctane	103	% 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: 07/25/2023 Sampling Date: 07/25/2023

Reported: 07/26/2023 Sampling Type: Soil

Project Name: SEMU 34 Sampling Condition: Cool & Intact
Project Number: 03D2057078 Sample Received By: Tamara Oldaker

Project Location: MAVERICK (32.5071687-103.1877344)

Sample ID: FS 01 @ .5' (H233880-11)

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	07/26/2023	ND	2.03	102	2.00	0.753	
Toluene*	<0.050	0.050	07/26/2023	ND	1.92	95.8	2.00	0.0636	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	2.02	101	2.00	0.0108	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	6.02	100	6.00	0.420	
Total BTEX	<0.300	0.300	07/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 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	<16.0	16.0	07/26/2023	ND	432	108	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	07/26/2023	ND	197	98.5	200	0.542	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	209	104	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111	% 49.1-14	8						

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Analytical Results For:

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

Received: 07/25/2023 Sampling Date: 07/25/2023

Reported: 07/26/2023 Sampling Type: Soil

Project Name: SEMU 34 Sampling Condition: Cool & Intact
Project Number: 03D2057078 Sample Received By: Tamara Oldaker

Project Location: MAVERICK (32.5071687-103.1877344)

Sample ID: FS 02 @ .5' (H233880-12)

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	07/26/2023	ND	2.03	102	2.00	0.753	
Toluene*	<0.050	0.050	07/26/2023	ND	1.92	95.8	2.00	0.0636	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	2.02	101	2.00	0.0108	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	6.02	100	6.00	0.420	
Total BTEX	<0.300	0.300	07/26/2023	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	07/26/2023	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	07/26/2023	ND	197	98.5	200	0.542	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	209	104	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114	% 49.1-14	8						

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Analytical Results For:

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

Received: 07/25/2023 Sampling Date: 07/25/2023

Reported: 07/26/2023 Sampling Type: Soil

Project Name: SEMU 34 Sampling Condition: Cool & Intact
Project Number: 03D2057078 Sample Received By: Tamara Oldaker

Applyzod By: 1H /

Project Location: MAVERICK (32.5071687-103.1877344)

Sample ID: FS 08 @ 3' (H233880-13)

RTFY 8021R

EX 8021B	mg,	/ kg	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
nzene*	<0.050	0.050	07/26/2023	ND	2.03	102	2.00	0.753	
luene*	<0.050	0.050	07/26/2023	ND	1.92	95.8	2.00	0.0636	
nylbenzene*	<0.050	0.050	07/26/2023	ND	2.02	101	2.00	0.0108	
tal Xylenes*	<0.150	0.150	07/26/2023	ND	6.02	100	6.00	0.420	
tal BTEX	<0.300	0.300	07/26/2023	ND					
rrogate: 4-Bromofluorobenzene (Pa	D 112 9	% 71.5-13	34						
loride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
loride	<16.0	16.0	07/26/2023	ND	432	108	400	0.00	
H 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
O C6-C10*	<10.0	10.0	07/26/2023	ND	197	98.5	200	0.542	
O >C10-C28*	<10.0	10.0	07/26/2023	ND	209	104	200	2.26	
T DRO >C28-C36	<10.0	10.0	07/26/2023	ND					
rrogate: 1-Chlorooctane	104	% 48.2-13	34						
rrogate: 1-Chlorooctadecane	114 9	% 49.1-14	18						
rrogate: 1-Chlorooctadecane	114 9	% 49.1-14	18						

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Analytical Results For:

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

Received: 07/25/2023 Sampling Date: 07/25/2023

Reported: 07/26/2023 Sampling Type: Soil

Project Name: SEMU 34 Sampling Condition: Cool & Intact
Project Number: 03D2057078 Sample Received By: Tamara Oldaker

Project Location: MAVERICK (32.5071687-103.1877344)

Sample ID: FS 09 @ 3' (H233880-14)

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	07/25/2023	ND	2.16	108	2.00	1.17	
Toluene*	<0.050	0.050	07/25/2023	ND	2.12	106	2.00	1.49	
Ethylbenzene*	< 0.050	0.050	07/25/2023	ND	2.06	103	2.00	1.19	
Total Xylenes*	<0.150	0.150	07/25/2023	ND	6.23	104	6.00	2.24	
Total BTEX	<0.300	0.300	07/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 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	64.0	16.0	07/26/2023	ND	432	108	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	07/26/2023	ND	197	98.5	200	0.542	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	209	104	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116	% 49.1-14	8						

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Analytical Results For:

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

Received: 07/25/2023 Sampling Date: 07/25/2023

Reported: 07/26/2023 Sampling Type: Soil

Project Name: SEMU 34 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 03D2057078

Project Location: MAVERICK (32.5071687-103.1877344)

Sample ID: FS 10 @ 3' (H233880-15)

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	07/25/2023	ND	2.16	108	2.00	1.17	
Toluene*	<0.050	0.050	07/25/2023	ND	2.12	106	2.00	1.49	
Ethylbenzene*	<0.050	0.050	07/25/2023	ND	2.06	103	2.00	1.19	
Total Xylenes*	<0.150	0.150	07/25/2023	ND	6.23	104	6.00	2.24	
Total BTEX	<0.300	0.300	07/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/26/2023	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	07/26/2023	ND	197	98.5	200	0.542	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	209	104	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					
Surrogate: 1-Chlorooctane	110 %	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119 %	6 49.1-14	8						

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Analytical Results For:

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

Received: 07/25/2023 Sampling Date: 07/25/2023

Reported: 07/26/2023 Sampling Type: Soil

Project Name: SEMU 34 Sampling Condition: Cool & Intact
Project Number: 03D2057078 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: MAVERICK (32.5071687-103.1877344)

Sample ID: FS 11 @ 3' (H233880-16)

BTEX 8021B

DIEX GOZID	11197	ng .	Alldiyzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2023	ND	2.16	108	2.00	1.17	
Toluene*	<0.050	0.050	07/25/2023	ND	2.12	106	2.00	1.49	
Ethylbenzene*	<0.050	0.050	07/25/2023	ND	2.06	103	2.00	1.19	
Total Xylenes*	<0.150	0.150	07/25/2023	ND	6.23	104	6.00	2.24	
Total BTEX	<0.300	0.300	07/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 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	128	16.0	07/26/2023	ND	432	108	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	07/26/2023	ND	197	98.5	200	0.542	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	209	104	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116	% 49.1-14	8						

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Analytical Results For:

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

Received: 07/25/2023 Sampling Date: 07/25/2023

Reported: 07/26/2023 Sampling Type: Soil

Project Name: SEMU 34 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 03D2057078

Project Location: MAVERICK (32.5071687-103.1877344)

Sample ID: FS 12 @ 3' (H233880-17)

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	07/25/2023	ND	2.16	108	2.00	1.17	
Toluene*	<0.050	0.050	07/25/2023	ND	2.12	106	2.00	1.49	
Ethylbenzene*	<0.050	0.050	07/25/2023	ND	2.06	103	2.00	1.19	
Total Xylenes*	<0.150	0.150	07/25/2023	ND	6.23	104	6.00	2.24	
Total BTEX	<0.300	0.300	07/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 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	07/26/2023	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	07/26/2023	ND	197	98.5	200	0.542	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	209	104	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					
Surrogate: 1-Chlorooctane	106 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116 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: 07/25/2023 Sampling Date: 07/25/2023

Reported: 07/26/2023 Sampling Type: Soil

Project Name: SEMU 34 Sampling Condition: Cool & Intact
Project Number: 03D2057078 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: MAVERICK (32.5071687-103.1877344)

Sample ID: FS 13 @ 3' (H233880-18)

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	07/25/2023	ND	2.16	108	2.00	1.17	
Toluene*	<0.050	0.050	07/25/2023	ND	2.12	106	2.00	1.49	
Ethylbenzene*	<0.050	0.050	07/25/2023	ND	2.06	103	2.00	1.19	
Total Xylenes*	<0.150	0.150	07/25/2023	ND	6.23	104	6.00	2.24	
Total BTEX	<0.300	0.300	07/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/26/2023	ND	432	108	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	07/26/2023	ND	197	98.5	200	0.542	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	209	104	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114	% 49.1-14	8						

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Analytical Results For:

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

Received: 07/25/2023 Sampling Date: 07/25/2023

Reported: 07/26/2023 Sampling Type: Soil

Project Name: SEMU 34 Sampling Condition: Cool & Intact
Project Number: 03D2057078 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: MAVERICK (32.5071687-103.1877344)

Sample ID: FS 14 @ 3' (H233880-19)

BTEX 8021B

DILX GOZID	iiig/	ng .	Allulyzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2023	ND	2.16	108	2.00	1.17	
Toluene*	<0.050	0.050	07/25/2023	ND	2.12	106	2.00	1.49	
Ethylbenzene*	<0.050	0.050	07/25/2023	ND	2.06	103	2.00	1.19	
Total Xylenes*	<0.150	0.150	07/25/2023	ND	6.23	104	6.00	2.24	
Total BTEX	<0.300	0.300	07/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 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	112	16.0	07/26/2023	ND	432	108	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	07/26/2023	ND	197	98.5	200	0.542	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	209	104	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					
Surrogate: 1-Chlorooctane	131	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	144	% 49.1-14	8						

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Analytical Results For:

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

Received: 07/25/2023 Sampling Date: 07/25/2023

Reported: 07/26/2023 Sampling Type: Soil

Project Name: SEMU 34 Sampling Condition: Cool & Intact
Project Number: 03D2057078 Sample Received By: Tamara Oldaker

Project Location: MAVERICK (32.5071687-103.1877344)

Sample ID: FS 15 @ 2.5' (H233880-20)

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	07/25/2023	ND	2.16	108	2.00	1.17	
Toluene*	<0.050	0.050	07/25/2023	ND	2.12	106	2.00	1.49	
Ethylbenzene*	<0.050	0.050	07/25/2023	ND	2.06	103	2.00	1.19	
Total Xylenes*	<0.150	0.150	07/25/2023	ND	6.23	104	6.00	2.24	
Total BTEX	<0.300	0.300	07/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 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	07/26/2023	ND	432	108	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	07/26/2023	ND	195	97.4	200	0.190	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	213	107	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					
Surrogate: 1-Chlorooctane	129	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	144	% 49.1-14	8						

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Analytical Results For:

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

Received: 07/25/2023 Sampling Date: 07/25/2023

Reported: 07/26/2023 Sampling Type: Soil

Project Name: SEMU 34 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03D2057078 Tamara Oldaker

Project Location: MAVERICK (32.5071687-103.1877344)

Sample ID: SW 07 @ 0-2.5' (H233880-21)

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	07/25/2023	ND	2.16	108	2.00	1.17	
Toluene*	<0.050	0.050	07/25/2023	ND	2.12	106	2.00	1.49	
Ethylbenzene*	<0.050	0.050	07/25/2023	ND	2.06	103	2.00	1.19	
Total Xylenes*	<0.150	0.150	07/25/2023	ND	6.23	104	6.00	2.24	
Total BTEX	<0.300	0.300	07/25/2023	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	07/26/2023	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	07/26/2023	ND	195	97.4	200	0.190	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	213	107	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					
Surrogate: 1-Chlorooctane	127 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	141	% 49.1-14	8						

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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CHAIN-OF-CUSTODY AND ANA YSIS REQUEST



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



		JU BALLEM	Thermometer ID	A dilling	Yes Tres	Corrected Temp. °C		Sampler - UPS - Bus - Other:
	Bacteria (only) Sample Condition	Standard	Turnaround Time:	CHECKED BY:		Observed Temp. °C 4,5		Delivered By: (Circle One)
		AP03/7578	NAR				Time:	4
July Court	John	REMARKS:	REMARKS	(unus e)	Received By:	0	Date:	Retinquished By:
	te Email address:	All Results are emailed. Please provide Email address:	All Results		DHANAN	5-23	7. Z	Durung &
	Add'l Phone #	It: Yes N No	reasons or otherwise.	ad upon any of the at we stated	services hereunder by Cardinal, regardless of whether such claim is based upon any of the a	hereunder by Cardinal, rega	ssors arising out of or , 'ated to the performance of services hed Rv: Date:	affiliates or successors arising out
		e applicable	paid by the client for the after completion of the	, snall be limited to the amount, wed by Cardinal within 30 days a use or loss of profits incurred by	swe terinely for any sami arising whenter based in contract or fort, same terineur to the attribute based with the alsosers shall be determed washed unless made in mitting and reserved by Carlott within 30 days fater completion of the a manages including without limitation busisess interruptions, loss of less of loss of profits incurred by client its substitutions.	we remedy for any claim ans soever shall be deemed wan mages, including without limit	T-LEASE MV IE. Labinity and Janingtes, Janinian stadiny and prints exclusive terributy for any stant arising wheter desent including these for negligence and any ofference that the defended whete for the standard for the standa	analyses. All claims including the service. In no event shall Cardina
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		5	SAMPLING	PRESERV. SA	MATRIX	- I I	JANANYON FOU	FOR LABUSE ONLY
				Phone #:	544 Ph	01870	8 50 les 1	Project Location:
G .				ate: Zip:	State:	3	EMIU 34	Project Name:
				y:	serich city:	Project Owner: MUNERICH		Project #: 0500
				Address:		#	84-7365 Fax#:	Phone #: 720-2
					Zip: \$8220 Attn:	State:WY Zip: <	cool sta	city: (Julisio
			۲.	Company: Q, C	Co	twu	Nat Pouts	Address: 6/22
				0. #:	P.O.		Almes Note	Project Manager:
	ANALYSIS REQUEST	A)	BILL TO			Bolium, LCC	Company Name:
						FAX (575) 393-2476	575) 393-2326 FAX (5)	

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



101 East Marland, Hobbs, NM 88240

(5/5) 393-2326	FAX (5/5) 393-24/6			
Company Name: Che DI WM	110	BILL TO	ANA	ANALYSIS REQUEST
Project Manager: Aim	ole .	P.O. #:		
Address: 8/12 Not Pa	artis thury	Company: H.H.		
city: Untsband	State: (VM) Zip: 48220	Attn:		
Phone #: 120-884 - 7865		Address:		
Project #: 0602057 078	Project Owner: MOWERICK	City:		
Project Name: SFMUSH		State: Zip:		
Project Location: 32 SSTL	187 - 188 KT344	Phone #:		
Sampler Name: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		Fax #:		
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING		
	(C)OMP IERS VATER		EX PH lorio	
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PLEASE NOTE: Liability and Damages. Cardinal's liability an	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	t or tort, shall be limited to the amount paid	by the client for the	
affiliates or successors arising out of or related to the performan	sequental damages, including without ce of services hereunder by ardinal,	limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiarie regardless of whether such claim is based upon any of the above stated reasons or otherwise.	No.	Add'I Dhone #:
	7-25-33 Time: 0 8 9 10 11 10 4 11		emailed. Please provi	ail address:
Relanduished By:	Date: Received By:		.,	
C			NAPPZ314257831	Bactoria (only) Sample Condition
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FORW-000 R 3 3 07/10/22		V .	Correction Factor 3.8 C	□ Nc □ No Corrected Temp. °C



July 27, 2023

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: SEMU 34

Enclosed are the results of analyses for samples received by the laboratory on 07/26/23 14:00.

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:
 07/26/2023
 Sampling Date:
 07/26/2023

 Reported:
 07/27/2023
 Sampling Type:
 Soil

Reported: 07/27/2023 Sampling Type: Soil
Project Name: SEMU 34 Sampling Condition: Cool & Intact

Project Number: 03D2057078 Sample Received By: Tamara Oldaker

Applymed By MC

Project Location: MAVERICK (32.5071687-103.1877344)

Sample ID: FS 03 @ 6.5' (H233909-01)

DTEV 0021D

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	07/27/2023	ND	1.95	97.7	2.00	4.75	
Toluene*	<0.050	0.050	07/27/2023	ND	1.88	93.9	2.00	5.79	
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	1.96	98.2	2.00	4.83	
Total Xylenes*	<0.150	0.150	07/27/2023	ND	5.88	98.0	6.00	5.18	
Total BTEX	<0.300	0.300	07/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 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	624	16.0	07/26/2023	ND	400	100	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	07/26/2023	ND	197	98.5	200	0.542	
DRO >C10-C28*	494	10.0	07/26/2023	ND	209	104	200	2.26	
EXT DRO >C28-C36	119	10.0	07/26/2023	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	130	% 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: 07/26/2023 Sampling Date: 07/26/2023

Reported: 07/27/2023 Sampling Type: Soil

Project Name: SEMU 34 Sampling Condition: Cool & Intact
Project Number: 03D2057078 Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: MAVERICK (32.5071687-103.1877344)

Sample ID: FS 04 @ 6.5' (H233909-02)

RTFY 8021R

BIEX 8021B	mg/	кg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2023	ND	1.95	97.7	2.00	4.75	
Toluene*	<0.050	0.050	07/26/2023	ND	1.88	93.9	2.00	5.79	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	1.96	98.2	2.00	4.83	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	5.88	98.0	6.00	5.18	
Total BTEX	<0.300	0.300	07/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 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	576	16.0	07/26/2023	ND	400	100	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	07/26/2023	ND	197	98.5	200	0.542	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	209	104	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					
Surrogate: 1-Chlorooctane	91.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 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: 07/26/2023 Sampling Date: 07/26/2023

Reported: 07/27/2023 Sampling Type: Soil

Project Name: SEMU 34 Sampling Condition: Cool & Intact
Project Number: 03D2057078 Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: MAVERICK (32.5071687-103.1877344)

Sample ID: FS 05 @ 6.5' (H233909-03)

RTFY 8021R

BIEX 8021B	mg/	кg	Апанухе	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2023	ND	1.95	97.7	2.00	4.75	
Toluene*	<0.050	0.050	07/26/2023	ND	1.88	93.9	2.00	5.79	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	1.96	98.2	2.00	4.83	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	5.88	98.0	6.00	5.18	
Total BTEX	<0.300	0.300	07/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 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	1220	16.0	07/26/2023	ND	400	100	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	07/26/2023	ND	195	97.4	200	0.190	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	213	107	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					
Surrogate: 1-Chlorooctane	97.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 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: 07/26/2023 Sampling Date: 07/26/2023

Reported: 07/27/2023 Sampling Type: Soil

Project Name: SEMU 34 Sampling Condition: Cool & Intact
Project Number: 03D2057078 Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: MAVERICK (32.5071687-103.1877344)

Sample ID: FS 06 @ 6.5' (H233909-04)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2023	ND	1.95	97.7	2.00	4.75	
Toluene*	<0.050	0.050	07/26/2023	ND	1.88	93.9	2.00	5.79	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	1.96	98.2	2.00	4.83	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	5.88	98.0	6.00	5.18	
Total BTEX	<0.300	0.300	07/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 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	592	16.0	07/26/2023	ND	400	100	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	07/26/2023	ND	195	97.4	200	0.190	
DRO >C10-C28*	565	10.0	07/26/2023	ND	213	107	200	1.66	
EXT DRO >C28-C36	150	10.0	07/26/2023	ND					
Surrogate: 1-Chlorooctane	98.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115	% 49.1-14	8						

77.1 170

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Celey D. Keine



Analytical Results For:

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

Received: 07/26/2023 Sampling Date: 07/26/2023

Reported: 07/27/2023 Sampling Type: Soil

Project Name: SEMU 34 Sampling Condition: Cool & Intact
Project Number: 03D2057078 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: MAVERICK (32.5071687-103.1877344)

mg/kg

Sample ID: FS 07 @ 6.5' (H233909-05)

BTEX 8021B

DIEX GOZID	11197	ng .	Allulyzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2023	ND	1.95	97.7	2.00	4.75	
Toluene*	<0.050	0.050	07/26/2023	ND	1.88	93.9	2.00	5.79	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	1.96	98.2	2.00	4.83	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	5.88	98.0	6.00	5.18	
Total BTEX	<0.300	0.300	07/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 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	1150	16.0	07/26/2023	ND	400	100	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	07/26/2023	ND	195	97.4	200	0.190	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	213	107	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 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: 07/26/2023 Sampling Date: 07/26/2023

Reported: 07/27/2023 Sampling Type: Soil

Project Name: SEMU 34 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03D2057078 Tamara Oldaker

Project Location: MAVERICK (32.5071687-103.1877344)

Sample ID: FS 20 @ 1.5' (H233909-06)

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	07/26/2023	ND	2.08	104	2.00	2.15	
Toluene*	<0.050	0.050	07/26/2023	ND	2.03	101	2.00	3.18	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	1.97	98.4	2.00	2.92	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	5.92	98.6	6.00	3.08	
Total BTEX	<0.300	0.300	07/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 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	07/26/2023	ND	400	100	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	07/26/2023	ND	195	97.4	200	0.190	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	213	107	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					
Surrogate: 1-Chlorooctane	99.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 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: 07/26/2023 Sampling Date: 07/26/2023

Reported: 07/27/2023 Sampling Type: Soil

Project Name: SEMU 34 Sampling Condition: Cool & Intact
Project Number: 03D2057078 Sample Received By: Tamara Oldaker

Project Location: MAVERICK (32.5071687-103.1877344)

Sample ID: FS 21 @ 1.5' (H233909-07)

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	07/26/2023	ND	2.08	104	2.00	2.15	
Toluene*	<0.050	0.050	07/26/2023	ND	2.03	101	2.00	3.18	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	1.97	98.4	2.00	2.92	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	5.92	98.6	6.00	3.08	
Total BTEX	<0.300	0.300	07/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 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	07/26/2023	ND	400	100	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	07/26/2023	ND	195	97.4	200	0.190	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	213	107	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					
Surrogate: 1-Chlorooctane	97.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Analytical Results For:

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

Received: 07/26/2023 Sampling Date: 07/26/2023

Reported: 07/27/2023 Sampling Type: Soil

Project Name: SEMU 34 Sampling Condition: Cool & Intact
Project Number: 03D2057078 Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: MAVERICK (32.5071687-103.1877344)

Sample ID: FS 22 @ 1.5' (H233909-08)

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	07/26/2023	ND	2.08	104	2.00	2.15	
Toluene*	<0.050	0.050	07/26/2023	ND	2.03	101	2.00	3.18	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	1.97	98.4	2.00	2.92	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	5.92	98.6	6.00	3.08	
Total BTEX	<0.300	0.300	07/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 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	07/26/2023	ND	432	108	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	07/26/2023	ND	195	97.4	200	0.190	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	213	107	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					
Surrogate: 1-Chlorooctane	98.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110	% 49.1-14	8						

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Analytical Results For:

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

Received: 07/26/2023 Sampling Date: 07/26/2023

Reported: 07/27/2023 Sampling Type: Soil

Project Name: SEMU 34 Sampling Condition: Cool & Intact
Project Number: 03D2057078 Sample Received By: Tamara Oldaker

Project Location: MAVERICK (32.5071687-103.1877344)

Sample ID: FS 23 @ 1.5' (H233909-09)

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	07/26/2023	ND	2.08	104	2.00	2.15	
Toluene*	<0.050	0.050	07/26/2023	ND	2.03	101	2.00	3.18	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	1.97	98.4	2.00	2.92	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	5.92	98.6	6.00	3.08	
Total BTEX	<0.300	0.300	07/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 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	07/26/2023	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	07/26/2023	ND	195	97.4	200	0.190	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	213	107	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119	% 49.1-14	8						

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Analytical Results For:

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

Received: 07/26/2023 Sampling Date: 07/26/2023

Reported: 07/27/2023 Sampling Type: Soil

Project Name: SEMU 34 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03D2057078 Tamara Oldaker

Project Location: MAVERICK (32.5071687-103.1877344)

Sample ID: FS 24 @ 1.5' (H233909-10)

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	07/26/2023	ND	2.08	104	2.00	2.15	
Toluene*	<0.050	0.050	07/26/2023	ND	2.03	101	2.00	3.18	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	1.97	98.4	2.00	2.92	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	5.92	98.6	6.00	3.08	
Total BTEX	<0.300	0.300	07/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 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	07/26/2023	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	07/26/2023	ND	195	97.4	200	0.190	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	213	107	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					
Surrogate: 1-Chlorooctane	92.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.9	% 49.1-14	8						

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07/26/2023

Analytical Results For:

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

Received: 07/26/2023 Sampling Date:

Reported: 07/27/2023 Sampling Type: Soil Project Name: SEMU 34 Sampling Condition:

Cool & Intact Sample Received By: Project Number: 03D2057078 Tamara Oldaker

Project Location: MAVERICK (32.5071687-103.1877344)

Sample ID: FS 25 @ 1.5' (H233909-11)

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	07/26/2023	ND	2.08	104	2.00	2.15	
Toluene*	<0.050	0.050	07/26/2023	ND	2.03	101	2.00	3.18	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	1.97	98.4	2.00	2.92	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	5.92	98.6	6.00	3.08	
Total BTEX	<0.300	0.300	07/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 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	07/26/2023	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	07/27/2023	ND	183	91.6	200	1.14	
DRO >C10-C28*	<10.0	10.0	07/27/2023	ND	180	90.1	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	07/27/2023	ND					
Surrogate: 1-Chlorooctane	93.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101 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: 07/26/2023 Sampling Date: 07/26/2023

Reported: 07/27/2023 Sampling Type: Soil

Project Name: SEMU 34 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03D2057078 Tamara Oldaker

Project Location: MAVERICK (32.5071687-103.1877344)

Sample ID: FS 26 @ 1.5' (H233909-12)

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	07/26/2023	ND	2.08	104	2.00	2.15	
Toluene*	<0.050	0.050	07/26/2023	ND	2.03	101	2.00	3.18	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	1.97	98.4	2.00	2.92	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	5.92	98.6	6.00	3.08	
Total BTEX	<0.300	0.300	07/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 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	07/26/2023	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	07/27/2023	ND	183	91.6	200	1.14	
DRO >C10-C28*	<10.0	10.0	07/27/2023	ND	180	90.1	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	07/27/2023	ND					
Surrogate: 1-Chlorooctane	95.5	% 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: 07/26/2023 Sampling Date: 07/26/2023

Reported: 07/27/2023 Sampling Type: Soil

Project Name: SEMU 34 Sampling Condition: Cool & Intact
Project Number: 03D2057078 Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: MAVERICK (32.5071687-103.1877344)

Sample ID: FS 27 @ 1.5' (H233909-13)

RTFY 8021R

B1EX 8021B	mg/	кд	Anaiyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2023	ND	2.08	104	2.00	2.15	
Toluene*	<0.050	0.050	07/26/2023	ND	2.03	101	2.00	3.18	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	1.97	98.4	2.00	2.92	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	5.92	98.6	6.00	3.08	
Total BTEX	<0.300	0.300	07/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 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	<16.0	16.0	07/26/2023	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	07/27/2023	ND	183	91.6	200	1.14	
DRO >C10-C28*	<10.0	10.0	07/27/2023	ND	180	90.1	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	07/27/2023	ND					
Surrogate: 1-Chlorooctane	94.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101 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: 07/26/2023 Sampling Date: 07/26/2023

Reported: 07/27/2023 Sampling Type: Soil

Project Name: SEMU 34 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03D2057078 Tamara Oldaker

Project Location: MAVERICK (32.5071687-103.1877344)

Sample ID: FS 28 @ 1.5' (H233909-14)

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	07/26/2023	ND	2.08	104	2.00	2.15	
Toluene*	<0.050	0.050	07/26/2023	ND	2.03	101	2.00	3.18	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	1.97	98.4	2.00	2.92	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	5.92	98.6	6.00	3.08	
Total BTEX	<0.300	0.300	07/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 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	07/26/2023	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	07/27/2023	ND	183	91.6	200	1.14	
DRO >C10-C28*	<10.0	10.0	07/27/2023	ND	180	90.1	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	07/27/2023	ND					
Surrogate: 1-Chlorooctane	94.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 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: 07/26/2023 Sampling Date: 07/26/2023

Reported: 07/27/2023 Sampling Type: Soil

Project Name: SEMU 34 Sampling Condition: Cool & Intact
Project Number: 03D2057078 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: MAVERICK (32.5071687-103.1877344)

mg/kg

Sample ID: SW 08 @ 0-1.5' (H233909-15)

BTEX 8021B

DILX GOZID	mg/	- Kg	Allulyzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2023	ND	2.08	104	2.00	2.15	
Toluene*	<0.050	0.050	07/26/2023	ND	2.03	101	2.00	3.18	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	1.97	98.4	2.00	2.92	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	5.92	98.6	6.00	3.08	
Total BTEX	<0.300	0.300	07/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 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	07/26/2023	ND	432	108	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	07/27/2023	ND	183	91.6	200	1.14	
DRO >C10-C28*	<10.0	10.0	07/27/2023	ND	180	90.1	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	07/27/2023	ND					
Surrogate: 1-Chlorooctane	96.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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Analytical Results For:

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

Received: 07/26/2023 Sampling Date: 07/26/2023

Reported: 07/27/2023 Sampling Type: Soil

Project Name: SEMU 34 Sampling Condition: Cool & Intact
Project Number: 03D2057078 Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: MAVERICK (32.5071687-103.1877344)

Sample ID: SW 09 @ 0-1.5' (H233909-16)

RTFY 8021R

B1EX 8021B	тд/кд		Anaiyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2023	ND	2.08	104	2.00	2.15	
Toluene*	<0.050	0.050	07/26/2023	ND	2.03	101	2.00	3.18	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	1.97	98.4	2.00	2.92	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	5.92	98.6	6.00	3.08	
Total BTEX	<0.300	0.300	07/26/2023	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	16.0	16.0	07/26/2023	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	07/27/2023	ND	183	91.6	200	1.14	
DRO >C10-C28*	<10.0	10.0	07/27/2023	ND	180	90.1	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	07/27/2023	ND					
Surrogate: 1-Chlorooctane	95.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 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: 07/26/2023 Sampling Date: 07/26/2023

Reported: 07/27/2023 Sampling Type: Soil

Project Name: SEMU 34 Sampling Condition: Cool & Intact
Project Number: 03D2057078 Sample Received By: Tamara Oldaker

Project Location: MAVERICK (32.5071687-103.1877344)

Sample ID: SW 10 @ 0-1.5' (H233909-17)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2023	ND	2.08	104	2.00	2.15	
Toluene*	<0.050	0.050	07/26/2023	ND	2.03	101	2.00	3.18	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	1.97	98.4	2.00	2.92	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	5.92	98.6	6.00	3.08	
Total BTEX	<0.300	0.300	07/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 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	07/26/2023	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	07/27/2023	ND	183	91.6	200	1.14	
DRO >C10-C28*	<10.0	10.0	07/27/2023	ND	180	90.1	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	07/27/2023	ND					
Surrogate: 1-Chlorooctane	90.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.0	% 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.

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

Page 90 of 110

101 East Marland, Hobbs, NM 88240

aboratories

Page 20 of 21

CHAIN-OF-CUSTODY AND ANALYS'S REQUEST

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

And Darriages. Cardinal's liability and of bress. All claims including those for negligence and any other liabs or successors arising out of or related to the performance bilinguished By: (Circle One) (Obmpler - UPS - Bus - Other: (Control of the performance of the performanc	Address: Old Market St. 100 St	Company Name (150)
eints o cause openits o of ser PD Till Till Trect	State: D. State: D. Zip: State: D. Z	M (2/3) 333-24/6
ent'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 requested damages, including without limitation, business interruptions, loss of use, or loss of profiles. Date:	SLUDGE OTHER: ACID/BASE: PI # # ACID/BASE: OTHER: ACID/BASE: ACI	BILL TO
ppicable It: Yes No Add'I re emailed. Please provide Em Office Standard Standard Wash France Physical Research Control of the Please Control of the	A BIEX X TPH K Chlorids	ANALYSIS
Phone #: all address: Bacteria (only) Sample Condition Cool Infact Observed Temp. °C No No Corrected Temp. °C		REQUEST



July 31, 2023

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: SEMU 34

Enclosed are the results of analyses for samples received by the laboratory on 07/28/23 12:00.

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: 07/28/2023 Sampling Date: 07/28/2023

Reported: 07/31/2023 Sampling Type: Soil

Project Name: SEMU 34 Sampling Condition: Cool & Intact
Project Number: 03D2057078 Sample Received By: Shari Cisneros

Applymed By MC

Project Location: MAVERICK (32.5071687-103.1877344)

Sample ID: SS 01 @ .5' (H233979-01)

DTEV 0021D

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	07/28/2023	ND	2.10	105	2.00	1.13	
Toluene*	<0.050	0.050	07/28/2023	ND	2.03	101	2.00	3.02	
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	1.97	98.5	2.00	1.83	
Total Xylenes*	<0.150	0.150	07/28/2023	ND	5.91	98.5	6.00	3.16	
Total BTEX	<0.300	0.300	07/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.1	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/28/2023	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	07/29/2023	ND	184	92.2	200	3.25	
DRO >C10-C28*	<10.0	10.0	07/29/2023	ND	188	94.2	200	5.96	
EXT DRO >C28-C36	<10.0	10.0	07/29/2023	ND					
Surrogate: 1-Chlorooctane	90.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.6	% 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: 07/28/2023 Sampling Date: 07/28/2023

Reported: 07/31/2023 Sampling Type: Soil

Project Name:SEMU 34Sampling Condition:Cool & IntactProject Number:03D2057078Sample Received By:Shari Cisneros

Analyzed By: MS

Project Location: MAVERICK (32.5071687-103.1877344)

Sample ID: SS 02 @ .5' (H233979-02)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/28/2023	ND	2.10	105	2.00	1.13	
Toluene*	<0.050	0.050	07/28/2023	ND	2.03	101	2.00	3.02	
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	1.97	98.5	2.00	1.83	
Total Xylenes*	<0.150	0.150	07/28/2023	ND	5.91	98.5	6.00	3.16	
Total BTEX	<0.300	0.300	07/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 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	07/28/2023	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	07/29/2023	ND	184	92.2	200	3.25	
DRO >C10-C28*	<10.0	10.0	07/29/2023	ND	188	94.2	200	5.96	
EXT DRO >C28-C36	<10.0	10.0	07/29/2023	ND					
Surrogate: 1-Chlorooctane	91.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.6	% 49.1-14	8						

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Analytical Results For:

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

Received: 07/28/2023 Sampling Date: 07/28/2023

Reported: 07/31/2023 Sampling Type: Soil

Project Name: SEMU 34 Sampling Condition: Cool & Intact
Project Number: 03D2057078 Sample Received By: Shari Cisneros

Applyzod By: MC

Project Location: MAVERICK (32.5071687-103.1877344)

Sample ID: SS 03 @ .5' (H233979-03)

RTFY 8021R

B1EX 8021B	тд/кд		Anaiyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/28/2023	ND	2.10	105	2.00	1.13	
Toluene*	<0.050	0.050	07/28/2023	ND	2.03	101	2.00	3.02	
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	1.97	98.5	2.00	1.83	
Total Xylenes*	<0.150	0.150	07/28/2023	ND	5.91	98.5	6.00	3.16	
Total BTEX	<0.300	0.300	07/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 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	16.0	16.0	07/28/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2023	ND	184	92.2	200	3.25	
DRO >C10-C28*	<10.0	10.0	07/29/2023	ND	188	94.2	200	5.96	
EXT DRO >C28-C36	<10.0	10.0	07/29/2023	ND					
Surrogate: 1-Chlorooctane	86.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.9	% 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: 07/28/2023 Sampling Date: 07/28/2023

Reported: 07/31/2023 Sampling Type: Soil

Project Name: SEMU 34 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03D2057078 Shari Cisneros

Project Location: MAVERICK (32.5071687-103.1877344)

Sample ID: SS 04 @ .5' (H233979-04)

BTEX 8021B	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/28/2023	ND	2.10	105	2.00	1.13	
Toluene*	<0.050	0.050	07/28/2023	ND	2.03	101	2.00	3.02	
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	1.97	98.5	2.00	1.83	
Total Xylenes*	<0.150	0.150	07/28/2023	ND	5.91	98.5	6.00	3.16	
Total BTEX	<0.300	0.300	07/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 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	07/28/2023	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	07/29/2023	ND	184	92.2	200	3.25	
DRO >C10-C28*	<10.0	10.0	07/29/2023	ND	188	94.2	200	5.96	
EXT DRO >C28-C36	<10.0	10.0	07/29/2023	ND					
Surrogate: 1-Chlorooctane	91.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.8	% 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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINAL Laboratories 101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

ner: Corrected Temp. °C	Time: Date: Time: Observed	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for a analyses. All claims including those for negligence and any other cause whatsoever shall be service. In no event shall Cardinal be liable for incidental or consequential damages, including affiliates of successors arising out of or related to the performance of services hereunder by CRelinquished By:	4 SSIB @ 'S'	2 SSM 20.5	Lab I.D. Sample I.D.	FOR LAB USE ONLY	Sampler Name: The House Call DM	Project Location	STOREGINES	Fax #:	State: N	THE WALL	Project Manager:
Cool Intact (Initials) A Yes A Yes No No No No CHECKED BY: Turnaroun CHECKED BY: Turnaroun Correction I	Received By: Verbal Results are All Results are Received By: Received By:	assed in contract or tort, shall be limited to the amount paid ade in writing and received by Cardinal within 30 days after ss interruptions, loss of use, or loss of profits incurred by clister such claim is based upon any of the above stated rear	2/11/2	# G W St St St St St St St	LUDGE THER: CID/BASE: E / COOL THER:	MATRIX	Phone #:	State: Zip:	Mousertok	00000	M Zip: XXXXX Attn:	P.O. #:	BILL TO
Thermometer ID #132- Correction Factor -0.5°C Standard Bacteria (only) Sample Condition Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Yes Yes No No Corrected Temp. °C	All Results are emailed. Please provide Email address: All Coll CollSolum Com REMARKS:	pplicable	<	- X - X	RTFX	id	25						ANALYSIS REQUEST



APPENDIX D

NMOCD Notifications

From: Aimee Cole

To: <u>ocd.enviro@state.nm.us</u>

Cc: Kalei Jennings

Subject: Maverick - Sampling Notification (Week of 7/24/2023)

Date: Wednesday, July 19, 2023 1:45:00 PM

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

image006.png image007.png image008.png

All,

Maverick Permian, LLC plans to complete sampling activities at the following sites the week of July 24, 2023.

• SEMU 34 / NAPP2314257831

• Sampling Dates: 7/24/2023 - 7/26/2023

• Cone Jalmat South Satellite Header / NAPP2301881992

• Sampling Dates: 7/25/2023 - 7/27/2023

• SC Federal Battery / NAPP2303272686

• Sampling Date: 7/26/2023

Thank you,



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 | <u>Jocelyn.Harimon@emnrd.nm.gov</u>

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



APPENDIX E

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	NAPP2314257831
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible	Party: Mave	erick Permian, LL	.C		OGRID: 331199					
Contact Nam	e: Bryce W	agoner			Contact Te	elephone: 928-2	241-1862			
Contact emai	il: <u>Bryce.Wa</u>	ngoner@mavreso	urces.com		Incident #	(assigned by OCD)	NAPP2314257831			
Contact mail 1410 NW Co		Hobbs, NM 8824	0							
			Location	n of R	delease So	ource				
Latitude 32.5	571687		(NAD 83 in a	decimal de	Longitude <u>-</u>	-103.1877344 mal places)				
Site Name: Sl	EMU 34				Site Type:	Flow line - Past	ture			
Date Release	Discovered:	: 05/03/23		API# (if app	olicable): 30-025-07	7820				
Unit Letter	Section	Township	Range		Coun	nty	7			
J	19	20S	38E	Lea						
	Materia		ribal ☐ Private Nature an all that apply and attace	nd Vo	lume of I		e volumes provided be)		
Crude Oil			ed (bbls) 1.89 bb				overed (bbls) 0 bb			
☐ Produced	Water		ed (bbls) 12.88 bl				overed (bbls) 0 bb	ls		
		Is the concentrate produced water	ation of dissolved >10,000 mg/l?	chloride	e in the	Yes N	No			
Condensa	te	Volume Releas				Volume Reco	overed (bbls)			
Natural G	as	Volume Releas	ed (Mcf)			Volume Reco	overed (Mcf)			
Other (de	scribe)	Volume/Weigh	t Released (provi	de units)	Volume/Weig	ght Recovered (pr	ovide units)		
	vas caused b							the release has been rea has been completed.		

Received by OCD: 8/1/2023 3:21:05 PM Form C-141 State of New Mexico Page 2 Oil Conservation Division

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Incident ID	NAPP2314257831
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release?
19.15.29.7(A) NMAC?	
☐ Yes ⊠ No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
	Initial Response
The responsible	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.
	as been secured to protect human health and the environment.
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 managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain why:
has begun, please attach	IAC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
	rmation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and
public health or the environr	required to report and/or file certain release notifications and perform corrective actions for releases which may endanger ment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have
	ate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In f a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
Printed Name:Bryce	e Wagoner Title:Permian HSE Specialist II
Signature: July	Date:
email:Bryce.Wago	oner@mavresources.com Telephone:928-241-1862
OCD Only	
Received by:	Date:

NAPP2314257831

	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 (%)	Pooled Area (ft ²)	Estimated Average Depth (ft.)	Pooled Volume (bbl.)	Volume of Oil in Subsurface (bbl.)	Volume of Water in Subsurface (bbl.)
Rectangle A						0.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle B						0.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle C						0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle D						0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle E						0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
	Total Volume (bbls): 0.00 0.00 0.00						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	135.0	35.0	2.0	0.1	0.01	4725.0	140.2	11.2	0.11	11.1
Rectangle B	60.0	25.0	2.0	0.1	0.50	1500.0	44.5	3.6	1.78	1.8
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): 14.77 1.89 12.88					12.88				

TOTAL RELEASE VOLUME (bbls): 14.8

	Page 107 of 11	0
Incident ID	NAPP2314257831	
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?	51-100 (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?	⊠ Yes □ No				
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.					
Characterization Report Checklist: Each of the following items must be included in the report.					
 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination 					
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release					

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.

Photographs including date and GIS information

☐ Laboratory data including chain of custody

Boring or excavation logs

Topographic/Aerial maps

Received by OCD: 8/1/2023 3:21:05 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

I	Page	10	8	of	11	0

Incident ID	NAPP2314257831
District RP	
Facility ID	
Application ID	

regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a	the best of my knowledge and understand that pursuant to OCD rules and notifications and perform corrective actions for releases which may endanger he OCD does not relieve the operator of liability should their operations have threat to groundwater, surface water, human health or the environment. In r of responsibility for compliance with any other federal, state, or local laws
Printed Name:Bryce Wagoner	Title:Permian HSE Specialist II
Signature: January 1	Date:8/1/2023
email:Bryce.Wagoner@mavresources.com	Telephone:928-241-1862
OCD Only	
Received by: Shelly Wells	Date: <u>8/2/2023</u>

Page 109 of 110

	- 10 11- 11- 11- 11- 11- 11- 11- 11-
Incident ID	NAPP2314257831
District RP	
Facility ID	
Application ID	

Closure

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

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

	-					
□ A scaled site and sampling diagram as described in 19.15.29.11 NMAC						
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)						
☐ Laboratory analyses of final sampling (Note: appropriate Of	OC District 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 certa may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rehuman health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regulatore, reclaim, and re-vegetate the impacted surface area to the concordance with 19.15.29.13 NMAC including notification to the	lations. The responsible party acknowledges they must substantially conditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete.					
Signature:	Date:8/1/2023					
email:Bryce.Wagoner@mavresources.com						
OCD Only						
Received by: Shelly Wells	Date: <u>8/2/2023</u>					
	y of liability should their operations have failed to adequately investigate and e water, human health, or the environment nor does not relieve the responsible d/or regulations.					
Closure Approved by:	Date:					
Printed Name:	Title:					

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 246799

CONDITIONS

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	246799
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	10/30/2023