



October 9, 2024

New Mexico Oil Conservation Division

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

**Re: Closure Request
MCA Unit #169
Incident Number nPAC0608133061
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Maverick Permian, LLC (Maverick), has prepared this *Closure Request* to document site assessment and soil sampling activities performed at the MCA Unit #169 release (Site). The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacted soil resulting from a historical release of produced water at the Site. Based on the Site assessment activities and soil sample laboratory analytical results, Maverick is requesting closure for Incident Number nPAC0608133061.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit L, Section 29, Township 17 South, Range 32 East, in Lea County, New Mexico (32.804194, -103.795263) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On May 8, 2000, internal corrosion of a steel flow line resulted in the release of approximately 110 barrels (bbls) of produced water into the surrounding pasture. A vacuum truck was used to recover approximately 90 bbls of released fluid. The previous operator, Conoco, Inc. reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on May 12, 2000. The release was assigned Incident Number nPAC0608133061.

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 are summarized below and detailed in the NMOCD permitting portal Form C-141 Site Characterization section. 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/soil boring data. The closest soil boring with depth to groundwater data is soil boring SB-2 drilled at the MCA 1A Header site during 2014. Soil boring SB-2 is located approximately 0.5 miles northwest of the Site. The soil boring was drilled to a total depth of 75

Maverick Permian, LLC
Closure Request
MCA Unit #169

Page 2

feet bgs and no groundwater was encountered. The soil boring log is included in Appendix A. All wells used for depth to groundwater determination are presented on Figure 1.

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

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

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

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH applies to the top 4 feet of the pasture area that was impacted by the release, per 19.15.29.13.D (1) NMAC.

SITE ASSESSMENT ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

The release occurred in 2000 while the Site was operated by Conoco, Inc. The initial Form C-141 indicates that remediation of soil would be completed in-place. A November 19, 2001, *Environmental Site Investigation Report* (BCC International, Inc.) documents the release dimensions and provides vertical delineation of the release to below 600 mg/kg for chloride. The release was documented to have impacted approximately 172 feet of pasture on either side of the injection line and was approximately 8 feet wide. The report recommends surface remediation; however, no subsequent documentation of remediation activities was available. The *Environmental Site Investigation Report* is included as Appendix D.

Maverick contracted Ensolum to complete assessment activities at the Site to evaluate the release area based on historical documentation, visual observations, and NMOCD's determination of the historical release area. Assessment soil samples SS01 through SS03 were collected as 5-point composite soil samples from a depth of 0.5 feet bgs within the presumed release area, to assess for surface impacts. Boreholes BH01 and BH02 were advanced via hand auger to a depth of 4 feet bgs within the presumed release area, to assess for the presence or absence of residual impacted soil in the top four feet. Soil from the boreholes was field screened at 1-foot intervals for volatile aromatic hydrocarbons (VOCs) utilizing a calibrated photoionization detector (PID) and chloride Hach® chloride QuanTab® test strips. Based on the absence of elevated field screening results, one composite soil sample, ranging from the ground surface to 4 feet bgs, was submitted for laboratory analysis from each borehole. The release extent and assessment soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix B.

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



Maverick Permian, LLC
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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 composite soil samples SS01 through SS03, BH01, and BH02, collected within the historical release extent, indicated that all COC concentrations were compliant with the most stringent Table I Closure Criteria. Laboratory analytical results are summarized on the attached Table 1 and the complete laboratory analytical reports are included in Appendix C.

RECLAMATION ACTIVITIES

Remediation and reclamation activities were completed historically by the previous operator. No information was available regarding backfill activities or seeding; however, the release area matches the surrounding topography and vegetation cover and composition appear consistent with the surrounding undisturbed land.

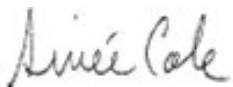
CLOSURE REQUEST

Site assessment activities were conducted at the Site to assess for the presence or absence of impacted soil resulting from a historical produced water release at the Site. Laboratory analytical results for the assessment soil samples, collected within and around the presumed historical release extent, indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria. Based on the laboratory analytical results, no further remediation is required.

Initial response efforts, historical remediation activities, and natural attenuation have mitigated impacts at this Site. Depth to groundwater was estimated to be greater than 51 feet bgs at the Site and no sensitive receptors were identified near the release extent. Maverick believes the remedial actions completed are protective of human health, the environment, and groundwater and respectfully requests closure for Incident nPAC0608133061.

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

Sincerely,
Ensolum, LLC



Aimee Cole
Senior Managing Scientist

cc: Bryce Wagoner, Maverick Natural Resources

Appendices:

Figure 1	Site Receptor Map
Figure 2	Soil Sample Location Map
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records



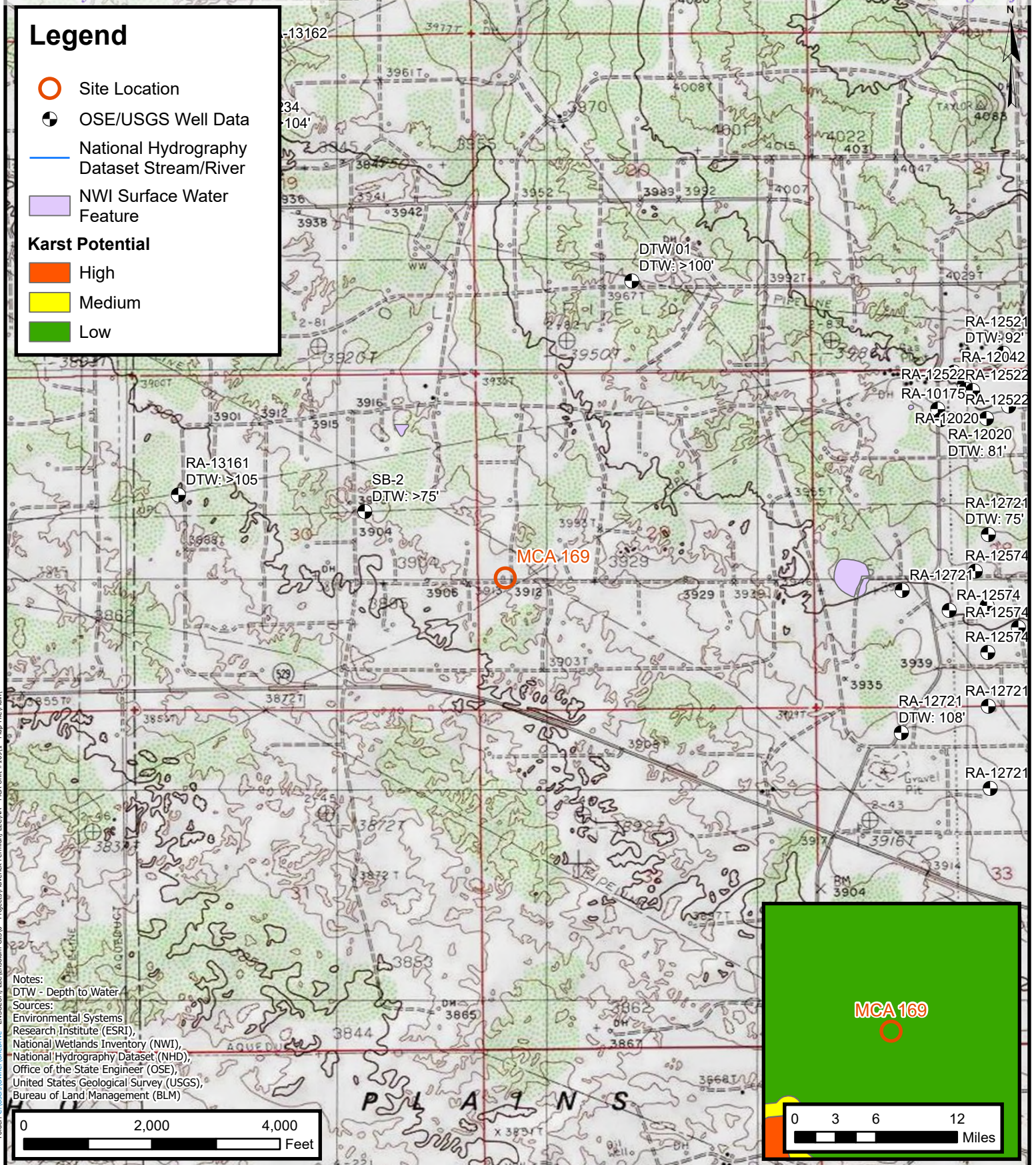
Maverick Permian, LLC
Closure Request
MCA Unit #169

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Appendix B Photographic Log
Appendix C Laboratory Analytical Reports & Chain of Custody Documentation
Appendix D Environmental Site Investigation Report (BBC International, Inc., 11/19/2021)



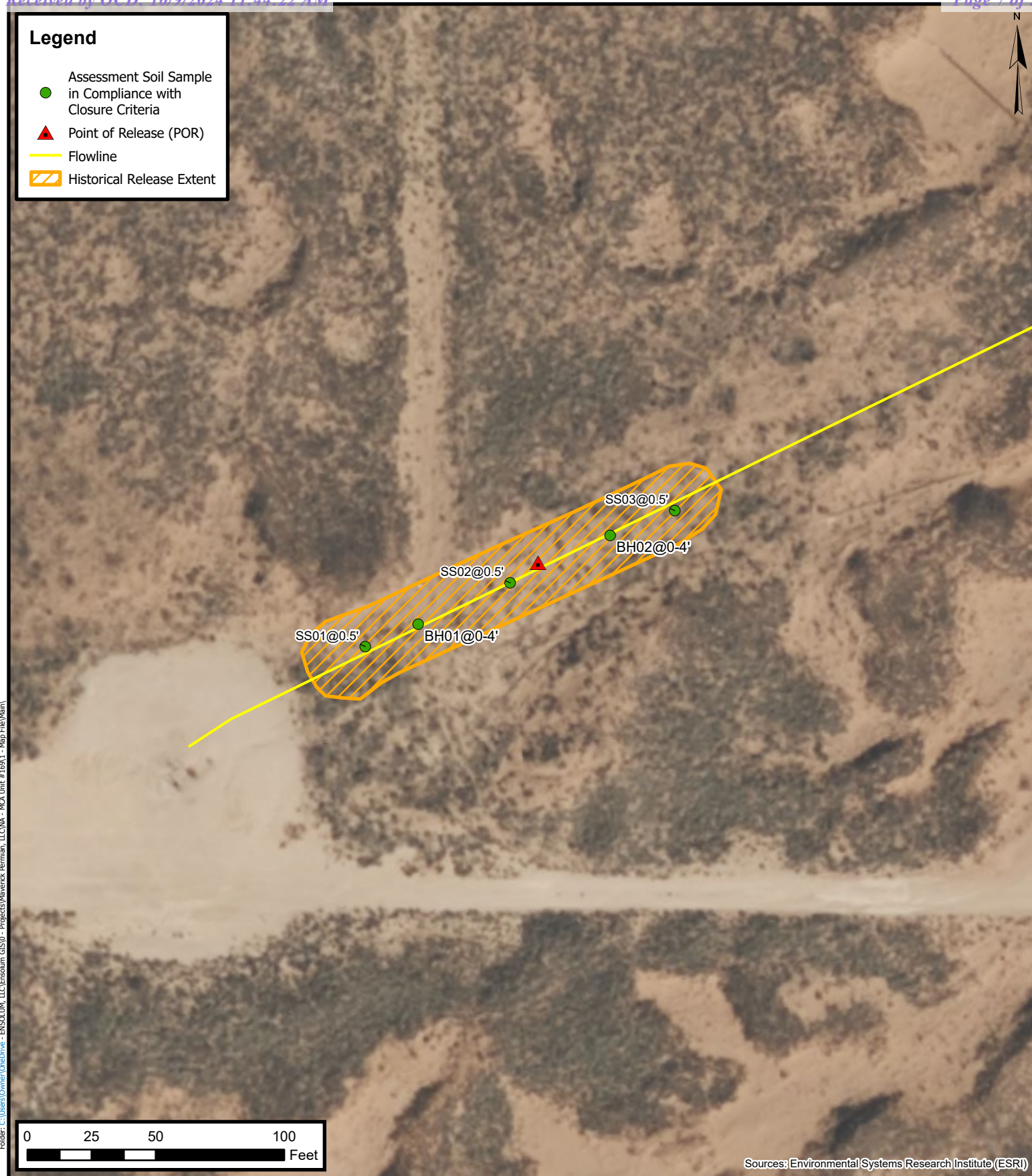
FIGURES



Legend

- Assessment Soil Sample in Compliance with Closure Criteria
- ▲ Point of Release (POR)
- Flowline
- Historical Release Extent

Folder: C:\Users\Owner\OneDrive - ENSOLUM, LLC\Ensolum GIS\0 - Projects\Maverick Permian, LLC\NA - MCA Unit #169.1 - Map File Main



Soil Sample Location Map

Maverick Permian, LLC
 MCA Unit #169
 Incident Number: nPAC0608133061
 Unit L, Section 29, Township 17 South, Range 32 East
 Lea County, New Mexico

FIGURE
2



TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS MCA Unit #169 Maverick Permian, LLC Lea County, New Mexico										
Sample Designation	Sample Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
NMOCD Reclamation Requirement for the top four feet			NE	NE	NE	NE	NE	NE	100	600
Surface Assessment Soil Samples										
SS01	09/27/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS02	09/27/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS03	09/27/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
Borehole Assessment Soil Samples										
BH01	09/27/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BH02	09/27/2024	0 - 4	<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
NA: Not Analyzed
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics
DRO: Diesel Range Organics
ORO: Oil Range Organics
TPH: Total Petroleum Hydrocarbon
Grey text represents samples that have been excavated



APPENDIX A

Referenced Well Records

Logger:	Amber Groves					
Driller:	White Drilling					
Drilling Method:	Air Rotary		Project Name:	Well ID:		
Start Date:	6/18/2014		CoP MCA 1A Header	SB-2		
End Date:	6/18/2014		Project Consultant: RECS			
Comments: All samples were taken from cuttings. DRAFTED BY: C. Uršanić TD = 75' GW = 95' - 105'			Location: U/L G Sec 30 T-17-S R-32-E Lat: 32°48'24.926"N County: Lea Long: 103°48'10.021"W State: NM			
Depth (feet)	Chloride field tests	LAB	PID	Description	Lithology	Well Construction
				RED SAND		
SS						
5 ft						
10 ft						
15 ft						
20 ft						
25 ft						
30 ft						
35 ft						

Depth (feet)	Chloride field tests		LAB	PID	Description		Lithology		Well Construction	
40 ft					COARSE RED SAND					
45 ft										
50 ft										
55 ft	452		CI-432	6.9	RED SAND					Bentonite Seal
	B <0.05	T <0.05	GRO <10							
	E <0.05	X <0.15	DRO 340							
60 ft	618			7.1						
					RED SAND/CLAY					
65 ft	1024		CI-1150	5.6						
	B <0.05	T <0.05	GRO <10							
	E <0.05	X <0.15	DRO 230							
70 ft	803			6.4						
75 ft	369		CI-352	5.4						
	B <0.05	T <0.05	GRO <10							
	E <0.05	X <0.15	DRO 236							



APPENDIX B

Photographic Log



Photographic Log

Maverick Permian, LLC

MCA Unit #169

Incident Number nPAC0608133061



Photograph 1 Date: 8/19/2024
Description: Historical release area
View: Southeast



Photograph 2 Date: 8/19/2024
Description: Historical release area
View: East



Photograph 3 Date: 8/19/2024
Description: Historical release area
View: West



Photograph 4 Date: 8/19/2024
Description: Historical release area and MCA 169 well
View: West



APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation



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

October 03, 2024

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MCA 169

Enclosed are the results of analyses for samples received by the laboratory on 09/27/24 13:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/27/2024
 Reported: 10/03/2024
 Project Name: MCA 169
 Project Number: 03E2057114
 Project Location: MAVERICK 32.8037872,-103.7950668

Sampling Date: 09/27/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH 01 0-4' (H245899-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2024	ND	2.02	101	2.00	1.28	
Toluene*	<0.050	0.050	09/30/2024	ND	2.08	104	2.00	0.377	
Ethylbenzene*	<0.050	0.050	09/30/2024	ND	2.09	105	2.00	0.539	
Total Xylenes*	<0.150	0.150	09/30/2024	ND	6.25	104	6.00	0.793	
Total BTX	<0.300	0.300	09/30/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/30/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2024	ND	193	96.7	200	0.950	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	187	93.6	200	2.54	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.6 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/27/2024
 Reported: 10/03/2024
 Project Name: MCA 169
 Project Number: 03E2057114
 Project Location: MAVERICK 32.8037872,-103.7950668

Sampling Date: 09/27/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH 02 0-4' (H245899-02)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2024	ND	2.02	101	2.00	1.28	
Toluene*	<0.050	0.050	09/30/2024	ND	2.08	104	2.00	0.377	
Ethylbenzene*	<0.050	0.050	09/30/2024	ND	2.09	105	2.00	0.539	
Total Xylenes*	<0.150	0.150	09/30/2024	ND	6.25	104	6.00	0.793	
Total BTX	<0.300	0.300	09/30/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/30/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2024	ND	193	96.7	200	0.950	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	187	93.6	200	2.54	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 95.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.2 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Bill To

ANALYSIS REQUEST

Company Name: Ensolum, LLC		P.O. #:	
Project Manager: Aimee Cole		Company: ENSOLUM, LLC	
Address: 3122 National Parks Hwy		Attn: Aimee Cole	
City: Carlsbad	State: NM	Zip: 88220	Address:
Phone #: (720) 384-7365	Fax #:	City:	State:
Project #: 0368057114	Project Owner:	Zip:	Phone #:
Project Name: 38.8037872/-103.7950668	Project Location: MCA Unit #1169	Fax #:	
Sampler Name: Mario Sackin			

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	BTEX	TPH	Chlorides
H245899	BH01	0-4	C	1			✓					✓		9/27/24	0930	✓	✓	✓
	BH02	0-4	C	1										9/27/24	0930	✓	✓	✓

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

Relinquished By:	Date: 9/27/24	Received By:	Date: 9/27/24
Relinquished By:	Date:	Received By:	Date:
Time:			

Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
TURN-006 R-3-2 10/07/21	3.6	3.0	

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

Turnaround Time:	Standard	Bacteria (only)	Sample Condition
	Rush	Cool Intact	Observed Temp. °C
Thermometer ID #448 #146		Yes <input type="checkbox"/> No <input type="checkbox"/>	Corrected Temp. °C
Correction Factor -0.3°C		Yes <input type="checkbox"/> No <input type="checkbox"/>	

REMARKS: ac@ensolum.com / msackin@ensolum.com

Verbal Result: ☐ Yes ☐ No Add'l Phone #:

All Results are emailed. Please provide Email address:



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

October 03, 2024

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MCA 169

Enclosed are the results of analyses for samples received by the laboratory on 09/27/24 13:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/27/2024
 Reported: 10/03/2024
 Project Name: MCA 169
 Project Number: 03E2057114
 Project Location: MAVERICK 32.8037872,-103.7950668

Sampling Date: 09/27/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SS 01 0.5' (H245900-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2024	ND	2.02	101	2.00	1.28	
Toluene*	<0.050	0.050	09/30/2024	ND	2.08	104	2.00	0.377	
Ethylbenzene*	<0.050	0.050	09/30/2024	ND	2.09	105	2.00	0.539	
Total Xylenes*	<0.150	0.150	09/30/2024	ND	6.25	104	6.00	0.793	
Total BTX	<0.300	0.300	09/30/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/30/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2024	ND	193	96.7	200	0.950	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	187	93.6	200	2.54	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 96.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.8 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/27/2024
 Reported: 10/03/2024
 Project Name: MCA 169
 Project Number: 03E2057114
 Project Location: MAVERICK 32.8037872,-103.7950668

Sampling Date: 09/27/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SS 02 0.5' (H245900-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/30/2024	ND	2.02	101	2.00	1.28		
Toluene*	<0.050	0.050	09/30/2024	ND	2.08	104	2.00	0.377		
Ethylbenzene*	<0.050	0.050	09/30/2024	ND	2.09	105	2.00	0.539		
Total Xylenes*	<0.150	0.150	09/30/2024	ND	6.25	104	6.00	0.793		
Total BTEX	<0.300	0.300	09/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/30/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2024	ND	193	96.7	200	0.950	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	187	93.6	200	2.54	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/27/2024
 Reported: 10/03/2024
 Project Name: MCA 169
 Project Number: 03E2057114
 Project Location: MAVERICK 32.8037872,-103.7950668

Sampling Date: 09/27/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SS 03 0.5' (H245900-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/30/2024	ND	2.02	101	2.00	1.28		
Toluene*	<0.050	0.050	09/30/2024	ND	2.08	104	2.00	0.377		
Ethylbenzene*	<0.050	0.050	09/30/2024	ND	2.09	105	2.00	0.539		
Total Xylenes*	<0.150	0.150	09/30/2024	ND	6.25	104	6.00	0.793		
Total BTEx	<0.300	0.300	09/30/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/30/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2024	ND	197	98.7	200	1.81	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	176	88.1	200	3.49	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 86.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.1 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

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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*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC
Project Manager: Aimee Cole
Address: 3122 National Parks Hwy
City: Carlsbad
Phone #: (720) 384-7365
State: NM
Zip: 88220
P.O. #:
Company: ENSOLUM, LLC
Attn: Aimee Cole
Address:
City:
State:
Zip:
Phone #:
Fax #:

Project #: 03E2057114
Project Owner:
Project Location: 32.8037872-103.7950668
Sample Name: Nitro Sulfides

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							PRESERV.	SAMPLING	DATE	TIME	BTEX	TPH	Chlorides
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE							
H245980	1	5501	0.5	C	1													
	2	5502	0.5	C	1													
	3	5503	0.5	C	1													

Turnaround Time: Standard ☒ Rush ☐
Thermometer ID: 444 #1426
Correction Factor: -0.5°C
Bacteria (only) ☒
Cool Intact ☐
Observed Temp. °C: 36
Corrected Temp. °C: 36

Remarks: acie@ensolum.com/msa@ensolum.com



APPENDIX D

Environmental Site Investigation Report (11/19/2021)



#9

CONOCO INC.

MCA #169 INJECTION LINE LEAK #2

ENVIRONMENTAL SITE INVESTIGATION

PERFORMED BY:

BBC INTERNATIONAL, INC.
WORLD-WIDE ENVIRONMENTAL SPECIALISTS
1324 W. MARLAND BLVD.
P. O. BOX 805
HOBBS, NEW MEXICO 88240
(505)397-6388 • FAX (505)397-0397
EMAIL: bbc@bbcinternational.com
WEBSITE: www.bbcinternational.com

NOVEMBER 19, 2001

PREPARED FOR:

MR. JOHN COY
CONOCO INC.
PO BOX 180
MALJAMAR, NEW MEXICO 88264

Conoco 217817
API# 30025007550000
incident - n PAC0608133061
application - p PAC0608133177

Comoco MCA # 169 Injection Line Leak #2 5-8-00

1.0 INTRODUCTION

The subject site is located south of Maljamar, New Mexico in Unit Letter L of Section 29, Township 17 South, Range 32 East. The site consists of undeveloped rangeland. On May 8, 2000 an injection line leaked approximately 110 barrels of produced water with approximately 90 barrels being recovered.

2.0 SITE CHARACTERIZATION

The leak area runs East-West for approximately 172 feet on either side of the injection line. The leak area is approximately 8 feet wide. The surface soil is red sand. There is no water source within 1,000 feet of the site. There is no surface water within 1,000 feet of the site. Based on data from the ground water monitoring well located at the Conoco Maljamar Plant, depth to ground water is approximately 90 feet.

3.0 SITE INVESTIGATION ACTIVITIES

On June 22, 2000, Conoco personnel took a three point composite sample at the site for laboratory analysis. This sample was taken at a depth of 59 inches. The lab results are located on Figure 1 and in Appendix II. On October 16, 2000 BBC personnel conducted an inspection of the site. One sample point was collected at the site at a depth of 9 feet using a backhoe. On October 12, 2001, BBC personnel returned to the site to take additional soil samples at a greater depth. One sample point was drilled to a depth of 25 feet using BBC's tractor mount drilling rig. Field screening techniques were used to determine samples to be sent for laboratory analysis. Field screening consisted of field chloride titrations. Laboratory results are located on Figure 1 and in Appendix I. Pictures of investigation activities are located in Appendix III.

4.0 CONCLUSION AND RECOMMENDATION

The data shows a significant reduction in chloride concentrations from 7886 ppm at 59 inches to 610 ppm at 9 feet, and 272 ppm at 25 feet. Taking into consideration that the depth to groundwater is greater than eighty feet, and the subsurface soil lithology at the site consists of caliche and sandstone layers, it is evident that the migration of chlorides to groundwater is unlikely. Therefore it is recommended that only surface remediation is necessary. This could consist of the addition of gypsum, ammonium nitrate, Salt-Block, or other amendments that will reduce the chloride concentrations in the soil to allow for revegetation.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Form C-141
Revised March 17, 1999

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Conoco, Inc.	Contact John Coy
Address 10 Desta Drive, Suite 100 W, Midland, TX 79705	Telephone No. (505) 676-2371
Facility Name MCA	Facility Type Injection

Surface Owner Caswell	(MCA #169 Spill 5.7L #2)	Mineral Owner BLM	Lease No. LC029410A / 6987018
--------------------------	--------------------------	----------------------	----------------------------------

LOCATION OF RELEASE

Unit Letter L	Section 29	Township 17S	Range 32E	Feet from the 1980'	North/South Line South	Feet from the 660'	East/West Line West	County Lea
------------------	---------------	-----------------	--------------	------------------------	---------------------------	-----------------------	------------------------	---------------

NATURE OF RELEASE

Type of Release Salt Water	Volume of Release 110 bbls salt water	Volume Recovered 90 bbls salt water
Source of Release 2" steel pipe	Date and Hour of Occurrence 5/8/00 @ 3:00 AM	Date and Hour of Discovery 5/8/00 @ 7:30 AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Sylvia w/NMOCD via telephone & Andrea w/BLM via telephone	
By Whom? Kevin Walker and John Coy	Date and Hour 5/8/00 @ 12:00 PM (NMOCD) and 5/12/00 @ 9:30 AM (BLM)	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

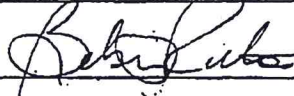
Cause of Problem: Internal corrosion of 2" buried steel pipe

Remedial Action Taken: Closed in header and well. Replaced bad piping

Describe Area Affected and Cleanup Action Taken.*

Area affected was 50'x 20' in low spot off location. Will remediate soil in place.

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

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Betsy Ritter	Approved by District Supervisor:	NOT APPROVED 04/13/2023
Title: Agent for Conoco	Approval Date:	Expiration Date:
Date: May 12, 2000	Phone: (915) 570-6007	Conditions of Approval:
		Attached <input type="checkbox"/>

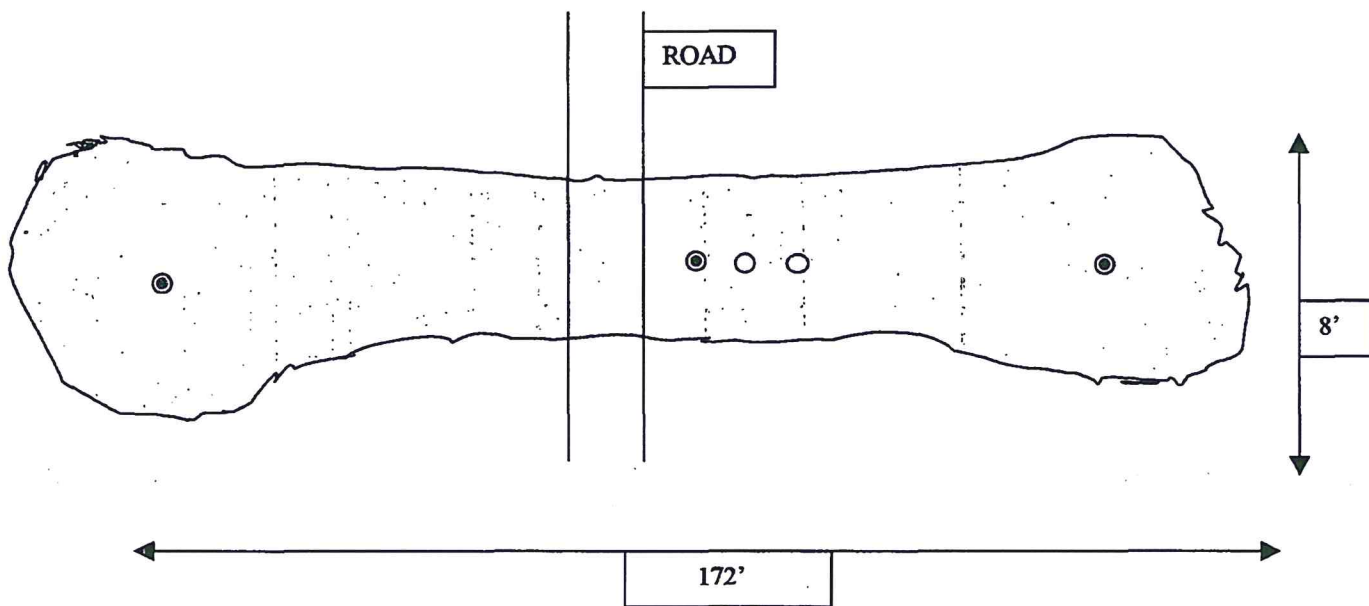
* Attach Additional Sheets If Necessary

Figure 1

CONOCO

MCA # 169 INJECTION LINE LEAK #2

5-8-00



LEGEND

⊗ CONOCO sample point 6-22-00 composite sample

○ BBC sample point 10-16-00 & 10-12-01 grab sample

Sample	Date	Depth	Chloride
CONOCO	6-22-00	59"	7886 PPM
BBC	10-16-00	9'	610 PPM
BBC	10-12-01	25'	272 PPM

BBC INTERNATIONAL, INC.	
CONOCO MCA #169	
Date: 11-20-00	Drawn By: Ken
Disk:	Sheet of Sheets
Scale: Not to Scale	File Name

Appendix I

**ARDINAL
LABORATORIES**

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
BBC INTERNATIONAL, INC.
ATTN: CLIFF BRUNSON
P.O. BOX 805
HOBBS, NM 88241
FAX TO: (505) 397-0397

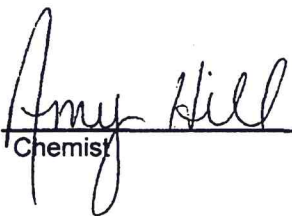
Receiving Date: 10/15/01
Reporting Date: 10/16/01
Project Owner: CONOCO
Project Name: MCA CONOCO
Project Location: MALJAMAR

Analysis Date: 10/16/01
Sampling Date: 10/12/01
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: AH

LAB NUMBER	SAMPLE ID	Cl ⁻ (mg/Kg)
H6213-1	MCA 169-2-25'	272
Quality Control		1010
True Value QC		1000
% Recovery		101
Relative Percent Difference		1.0

METHOD: Standard Methods	4500-ClB
--------------------------	----------

Analysis performed on a 1:4 w:v aqueous extract.



Chemist

10-16-01

Date

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H6213



ARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
BBC INTERNATIONAL INC.
ATTN: CLIFF BRUNSON
1324 W. MARLAND
HOBBS, NM 88240
FAX TO: (505) 397-0397

Receiving Date: 10/17/00
Reporting Date: 10/18/00
Project Number: NOT GIVEN
Project Name: MCA CONOCO
Project Location: MALJAMAR, NM

Sampling Date: 10/16/00
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	TPH (mg/Kg)	CI* (mg/Kg)
ANALYSIS DATE:		10/17/00	10/18/00
H5264-1	MCA#21FL 5'6"	2290	267
H5264-2	MCA#21FL 11'	38100	168
H5264-3	MCA#21FL 18'1"C	-	229
H5264-4	MCA#21FL 18'1"T	1500	-
H5264-5	MCA#169-1	-	610
H5264-6	MCA#169-2	-	2000
H5264-7	MCA 2A INJ. LINE	-	763
H5264-8	FILL DIRT	<10	61
Quality Control		218	1039
True Value QC		240	1000
% Recovery		90.9	104
Relative Percent Difference		7.0	1.3

METHODS: TPH-EPA 600/4-79-020 418.1; CI-Std. Methods 4500-CI'B

*Analyses performed on 1:4 w:v aqueous extracts.

[Signature]
Chemist

10/18/00
Date

H5264.XLS

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
BBC INTERNATIONAL INC.
ATTN: CLIFF BRUNSON
1324 W. MARLAND
HOBBS, NM 88240
FAX TO: (505) 397-0397

Receiving Date: 10/17/00
Reporting Date: 10/19/00
Project Number: NOT GIVEN
Project Name: MCA CONOCO
Project Location: MALJAMAR, NM

Sampling Date: 10/16/00
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

LAB NO.	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE		10/19/00	10/19/00	10/19/00	10/19/00
H5264-1	MCA#21FL 5'6"	0.020	0.008	0.902	1.02
H5264-2	MCA#21FL 11'	1.30	8.71	42.3	79.6
H5264-4	MCA#21FL 18'1"T	<0.005	0.009	0.006	0.016
H5264-8	FILL DIRT	<0.005	<0.005	<0.005	<0.015
Quality Control		0.089	0.092	0.090	0.273
True Value QC		0.100	0.100	0.100	0.300
% Recovery		89.0	92.4	90.4	91.1
Relative Percent Difference		1.9	2.1	1.9	1.8

METHOD: EPA SW-846 8260

Burgess A. Cooke
Chemist

10/19/00
Date

H5264B.XLS

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PHONE 915-573-7001 • 2111 BEECHWOOD • DALLAS, TX 75241

PHONE (505) 393-2315 • 101 E MAPLAND • OKLAHOMA CITY 73104

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 104 of 1

Company Name: <u>BRE International INC.</u>				Project Manager: <u>CLIFF R. BRUNSON</u>				Address: <u>1324 W. Marland</u>				City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>				Phone #: <u>1-505-397-6399</u>				Fax #: <u>1-505-397-0397</u>				Project #: <u>XXXX</u>				Project Name: <u>MCA CONADO</u>				Project Location: <u>Maljamar</u>				BILL TO: PO #:				Company:				Attn: <u>SAME</u>				Address: <u>AS</u>				City: <u>ABOVE</u>				State: Zip:				Phone #: Fax #:			
LAB ID. #		Sample ID.		COMP(C) OR GRAB(G)		# CONTAINERS		MATRIX				PRESENTATION				SAMPLING				DATE				TIME				ANALYSIS REQUEST																																			
								GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID:	ICE/COOL	OTHER:																																															
H5264-1		MCA#21FL 5'6"		1		1				✓					✓			10-16-00	9:30am	✓	✓																																										
- 2		MCA#21FL 11'		1		1				✓					✓			10-16-00	9:41am	✓	✓																																										
- 3		MCA#21FL 18'1"C		1		1				✓					✓			10-16-00	9:30am	✓	✓																																										
- 4		MCA#21FL 18'1" T		1		1				✓					✓			10-16-00	9:30am	✓	✓																																										
- 5		MCA# 169-1 20'		1		1				✓					✓			10-16-00	1:20		✓																																										
- 6		MCA# 169-2 9'		1		1				✓					✓			10-16-00	2:45		✓																																										
- 7		MCA 2A TWS LINES		1		1				✓					✓			10-16-00	4:00		✓																																										
- 8		FILL DIRT		1		1				✓					✓			10-16-00	4:15	✓	✓																																										

PLEASE NOTE: Liability and Damages: Cardinal's liability and third's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analysis. As claims, including those for negligence and any other claims, shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the above state service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, loss of data, or loss of profits, caused by fault, negligence or omissions of Cardinal or its successors arising out of or related to the performance of services rendered by Cardinal, regardless of whether such claim is based upon any theory of law and regardless of the amount of damages or compensation payable by or for any third party.

Sampler Relinquished By: <u>David Paul Woolly</u>		Date: <u>10-16-00</u>	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Additional Fax #: <input type="checkbox"/> Yes <input type="checkbox"/> No
Relinquished By: <u>David Paul Woolly</u>		Time: <u>5:00 PM</u>	Received By: (Lab Staff)	Fax Results: <input type="checkbox"/> Yes <input type="checkbox"/> No	REMARKS:
Delivered By: (Circle One)		Date: <u>10-17-00</u>	Time: <u>9:40 AM</u>	CHECKED BY: (Initials)	
UPS - Fed Ex - Bus - Other: <u>SAMPLE</u>		Sample Condition			
		Cool Intact			
		<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No			

Appendix II

MR. JOHN COY
CONOCO, INC.
P.O. BOX 180
MALJAMAR, NEW MEXICO 88264

JUNE 28, 2000

DEAR MR. COY:

THE FOLLOWING ARE THE RESULTS OF THE FOUR SOIL SAMPLES,
RECEIVED 06/26/00, LAB NOS. 791-794:

CHLORIDES
mg/Kg

LAB NO. 791: MCA #169 4,746
SITE #1 10:00 AM Comp @ 74"
SAMPLED 06/22/00

LAB NO. 792: MCA #169 7,886
SITE #2 COMP. @ 59"
SAMPLED 06/22/00 2:40 PM

LAB NO. 793: MCA #2A 701
TRUNK LINE COMP. @ 80"
SAMPLED 06/22/00 2:10 PM

LAB NO. 794: MCA #21 564
3 PT COMP @ 14'
SAMPLED 06/23/00 9:30 AM

METHOD:

CHLORIDES - AGRICULTURE HANDBOOK NO. 60 3C(1:10) SMWW 407-C

WE APPRECIATE THE OPPORTUNITY TO WORK WITH YOU ON THESE TESTS.
IF YOU HAVE ANY QUESTIONS OR REQUIRE ANY FURTHER INFORMATION,
PLEASE FEEL FREE TO CONTACT ME AT ANY TIME.

SINCERELY,

STEPHEN REID
SR/md

MR. JOHN COY
CONOCO, INC.
P.O. BOX 180
MALJAMAR, NEW MEXICO 88264

JUNE 29, 2000

DEAR MR. COY:

THE FOLLOWING ARE THE RESULTS OF THE FOUR SOIL SAMPLES FOR
BTEX, RECEIVED 06/26/00, LAB NOS. 791-794:

	BENZENE mg/Kg	TOLUENE mg/Kg	ETHYL BENZENE mg/Kg	XYLENES mg/Kg
LAB NO. 791: MCA #169 SITE #1 10:00 AM Comp. @ 7'4" SAMPLED 06/22/00	< 0.100	< 0.100	< 0.100	< 0.100
LAB NO. 792: MCA #169 SITE #2 COMP. @ 59" SAMPLED 06/22/00 2:40 PM	< 0.100	< 0.100	< 0.100	< 0.100
LAB NO. 793: MCA #2A TRUNK LINE COMP. @ 80" SAMPLED 06/22/00 2:10 PM	< 0.100	< 0.100	< 0.100	< 0.100
LAB NO. 794: MCA #21 3 PT COMP @ 14' SAMPLED 06/23/00 9:30 AM	0.259	0.670	1.040	6.680

NOTE: BTEX RESULTS ARE FROM ANOTHER LABORATORY.

< = LESS THAN

SAMPLE MATRIX: SOIL

METHODS: SW 846-8021B, 5030A

WE APPRECIATE THE OPPORTUNITY TO WORK WITH YOU ON THESE TESTS.
IF YOU HAVE ANY QUESTIONS OR REQUIRE ANY FURTHER INFORMATION,
PLEASE FEEL FREE TO CONTACT ME AT ANY TIME.

SINCERELY,

STEPHEN REID
SR/dt

MR. JOHN COY
CONOCO, INC.
P.O. BOX 180
MALJAMAR, NEW MEXICO 88264

JUNE 28, 2000

DEAR MR. COY:

THE FOLLOWING IS THE RESULT OF THE SOIL SAMPLE FOR TOTAL
PETROLEUM HYDROCARBONS, RECEIVED 06/26/00, LAB NO. 794:

LAB NO. 794: MCA #21
3 PT COMP @ 14'
SAMPLED 06/23/00 9:30 AM

TOTAL PETROLEUM HYDROCARBONS	
mg/Kg	wt%
3,905	0.3905

METHOD: EPA 418.1

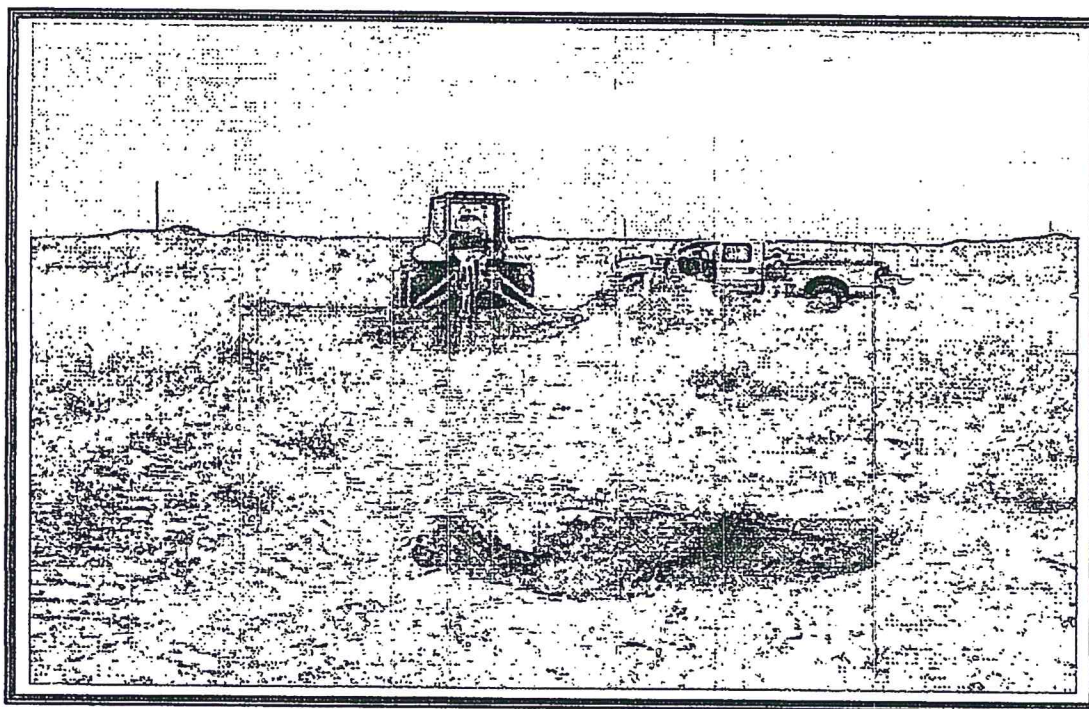
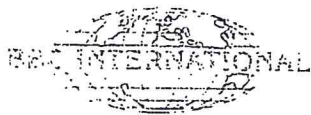
WE APPRECIATE THE OPPORTUNITY TO WORK WITH YOU ON THESE TESTS.
IF YOU HAVE ANY QUESTIONS OR REQUIRE ANY FURTHER INFORMATION,
PLEASE FEEL FREE TO CONTACT ME AT ANY TIME.

SINCERELY,

STEPHEN REID
SR/dt

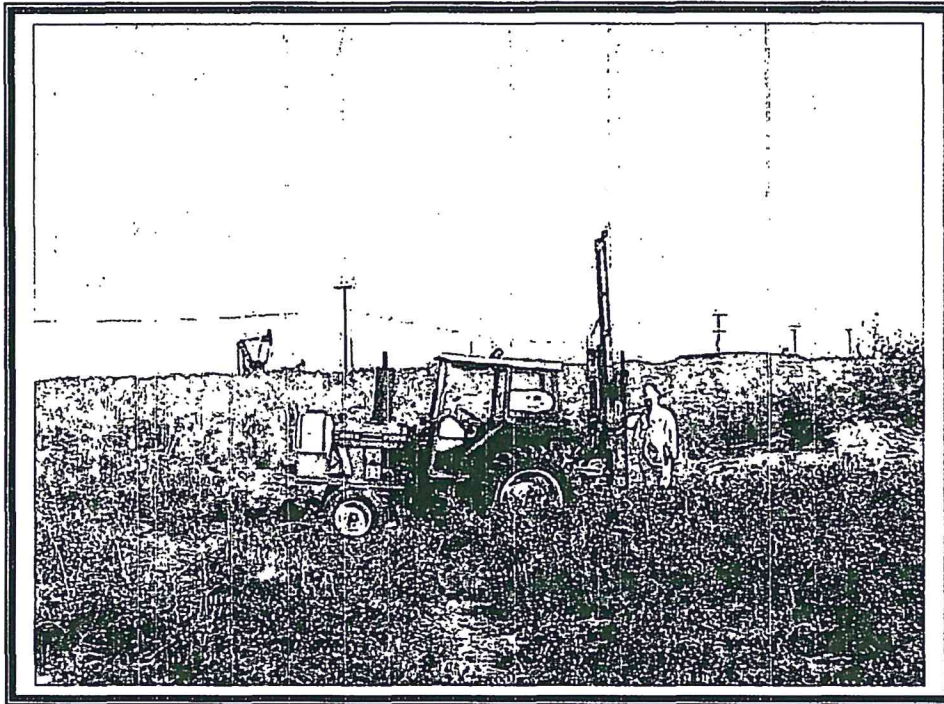
Page 42 of 54
Received by OCD: 10/9/2024 11:44:22 AM
Released to Imaging: 10/10/2024 1:04:23 PM

Appendix III



MCA #169 Spill date 5-8-00 Sample taken at 9'

Page 45 of 54
Received by OGD: 10/9/2024 11:44:22 AM



MCA #169 Sample date 10-12-01 – Sample taken at 25'

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

QUESTIONS

Action 391169

QUESTIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 391169
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nPAC0608133061
Incident Name	NPAC0608133061 MCA UNIT #169 @ 30-025-00755
Incident Type	Produced Water Release
Incident Status	Reclamation Report Received
Incident Well	[30-025-00755] MCA UNIT #169

Location of Release Source	
Please answer all the questions in this group.	
Site Name	MCA UNIT #169
Date Release Discovered	05/08/2000
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion Flow Line - Injection Produced Water Released: 110 BBL Recovered: 90 BBL Lost: 20 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 391169

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:
	331199
	Action Number:
	391169
Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Aimee Cole Email: acole@ensolum.com Date: 10/09/2024
--	---

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QUESTIONS, Page 3

Action 391169

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:
	331199
	Action Number:
	391169
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 75 and 100 (ft.)
What method was used to determine the depth to ground water	Attached Document
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	32
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	0
GRO+DRO	(EPA SW-846 Method 8015M)	0
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	05/08/2000
On what date will (or did) the final sampling or liner inspection occur	09/27/2024
On what date will (or was) the remediation complete(d)	09/27/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	0
What is the estimated volume (in cubic yards) that will be remediated	0

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 391169

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:	331199
	Action Number:	391169
	Action Type:	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	<i>Not answered.</i>
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	<i>Not answered.</i>
(In Situ) Soil Vapor Extraction	<i>Not answered.</i>
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	<i>Not answered.</i>
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	<i>Not answered.</i>
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	<i>Not answered.</i>
Ground Water Abatement pursuant to 19.15.30 NMAC	<i>Not answered.</i>
OTHER (Non-listed remedial process)	Yes
Other Non-listed Remedial Process. Please specify	Unknown/Historical release. No impacted soil was encountered during the assessment activities and no further remediation is required.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Aimee Cole Email: acole@ensolum.com Date: 10/09/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 391169

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:	331199
	Action Number:	391169
	Action Type:	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

District I

1625 N. French Dr., Hobbs, NM 88240
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QUESTIONS, Page 6

Action 391169

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:
	331199
	Action Number:
	391169
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	386108
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/27/2024
What was the (estimated) number of samples that were to be gathered	10
What was the sampling surface area in square feet	3000

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	0
What was the total volume (cubic yards) remediated	0
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	Unknown/Historical release.

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 (in .pdf format) 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.

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

I hereby agree and sign off to the above statement	Name: Aimee Cole Email: acole@ensolum.com Date: 10/09/2024
--	--

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QUESTIONS, Page 7

Action 391169

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:	331199
	Action Number:	391169
	Action Type:	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Reclamation Report	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	0
What was the total volume of replacement material (in cubic yards) for this site	0
<i>Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.</i>	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseedling commence(d)	09/27/2024
Summarize any additional reclamation activities not included by answers (above)	The release occurred in May 2000. Remediation and reclamation activities were completed historically.
<i>The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseedling plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Aimee Cole Email: acole@ensolum.com Date: 10/09/2024

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

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

QUESTIONS, Page 8

Action 391169

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 391169
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
<i>Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.</i>	
Requesting a restoration complete approval with this submission	No
<i>Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.</i>	

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CONDITIONS

Action 391169

CONDITIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:
	331199
	Action Number:
	391169
Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

CONDITIONS

Created By	Condition	Condition Date
amaxwell	The reclamation report has been approved pursuant to 19.15.29.13 E. NMAC. The acceptance of this report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment; or if the location fails to revegetate properly. In addition, OCD approval does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.	10/10/2024
amaxwell	A revegetation report will not be accepted until revegetation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	10/10/2024
amaxwell	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeded activities, inspections, and final pictures when revegetation is achieved.	10/10/2024