Form C-141
Page 6

State of New Mexico
Oil Conservation Division

Incident ID	NAB1801651958
District RP	
Facility ID	
Application ID	

Closure

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

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

☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☐ Description of remediation activities

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

Printed Name: Melodie Sanjari Title: _____

Signature: Callie Kerrigan Melodie Sanjari Date: 7/20/2023

~~email:~~ msanjari@marathonoil.com Telephone: _____

OCD Only

Received by: Jocelyn Harimon Date: 07/20/2023

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

Closure Approved by: _____ Date: 07/30/2023

Printed Name: Jocelyn Harimon Title: Environmental Specialist

Closure Report was originally submitted via OCD's centrestack as part of Marathon's ACO. Resubmission to the Division's payment portal was requested.

APPENDIX A

CARMONA RESOURCES

CARMONA RESOURCES

July 7, 2023

Mike Bratcher
District Supervisor
Oil Conservation Division, District 2
811 S. First Street
Artesia, New Mexico 88210

Re: Amendment to Closure Report
Black River 10 State Com #002H
Marathon Oil Corporation
2RP-4559
Site Location: Unit P, S15, T24S, R27E
(Lat 32.21064077°, Long -104.17339692°)
Eddy County, New Mexico

Mr. Bratcher:

On behalf of Marathon Oil Corporation (Marathon), Carmona Resource, LLC has prepared this letter to document additional site activities for the Black River 10 State Com #2H. The site is located at the GPS 32.21064077°, -104.17339692° within Unit P, S15, T24S, R27E in Eddy County, New Mexico.

1.0 Site Information and Background

2RP-4559

On June 15, 2023, the New Mexico OCD denied the closure report for the following reason: This closure is denied. The area 1 and area 2 composite closure samples do not reflect background or neutral PH levels. This spill must be remediated to meet the requirements of NMAC 19.15.29. 12 and 19.15.29.13. A revised closure report should be resubmitted no later than 09/13/2023.

2.0 Site Assessment Activities

On June 28, 2023, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts from the release. Two (2) composite sample points (Comp #1 and Comp #2) were advanced to a depth ranging from the surface to 1.0’ bgs inside the release at Area 1 and Area 2 to assess the vertical extent. See Figure 3 for the sample locations. For chemical analysis, the soil samples were collected, stored on ice, and placed directly into laboratory-provided sample containers and transported under the proper chain-of-custody protocol to Europhins Laboratories in Midland, Texas. The samples were analyzed for pH by method 9045D. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix D.

310 West Wall Street, Suite 500
Midland, Texas 79701
432.813.1992

CARMONA RESOURCES

All samples were at or below background levels. Refer to Table 1. The sample points of Comp #1 and Comp #2 have undergone natural attenuation from precipitation and weather events that occurred from the initial sampling on February 2, 2018, to the present.

3.0 Conclusions

Based on the assessment results and the analytical data, no further actions are required at the site. The final C-141 is attached in Appendix A of the original request for closure. Marathon formally requests the closure of the spill. If you have any questions regarding this report or need additional information, please get in touch with us at 432-813-1992.

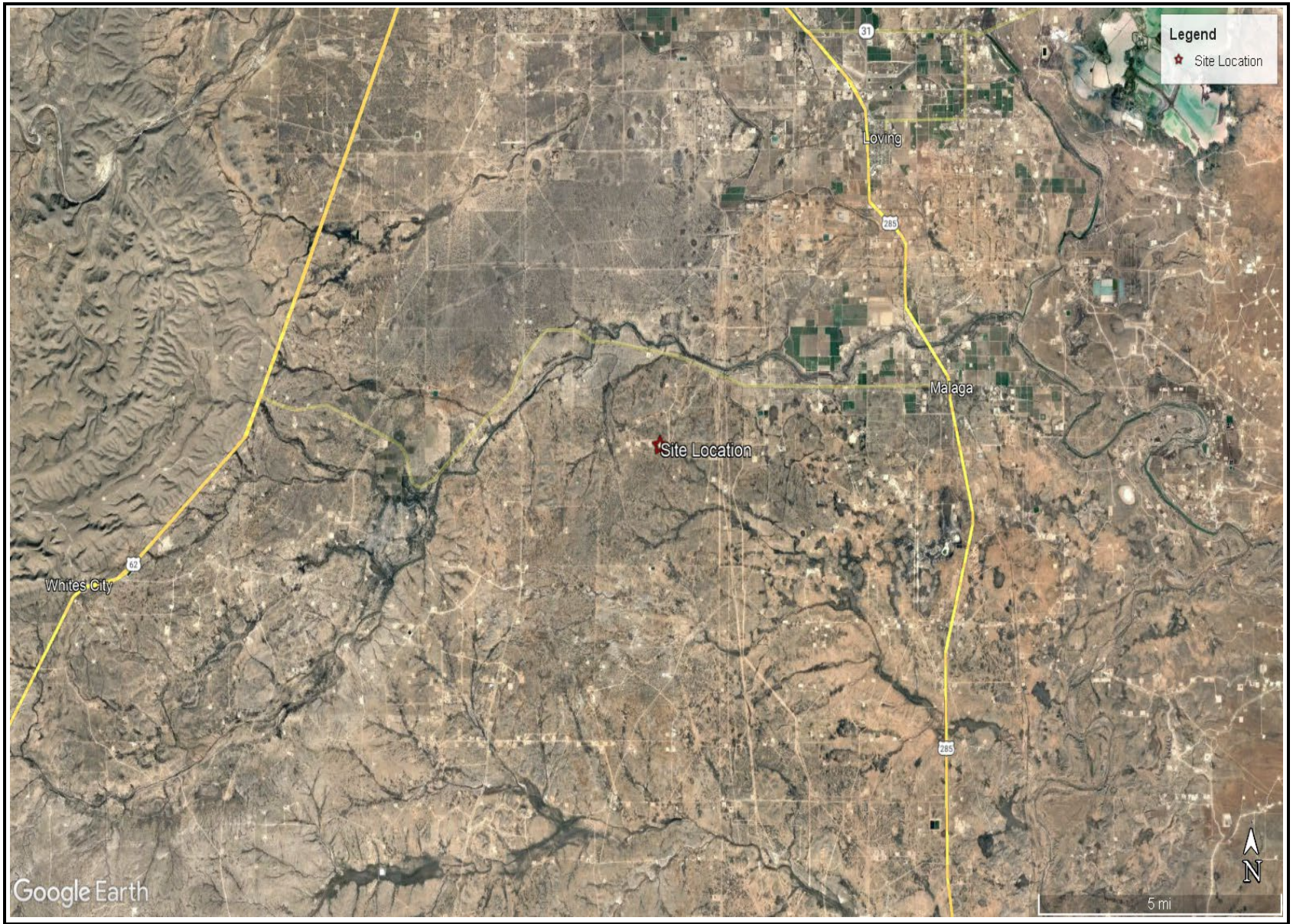
Sincerely,
Carmona Resources, LLC

Mike Carmona
Environmental Manager

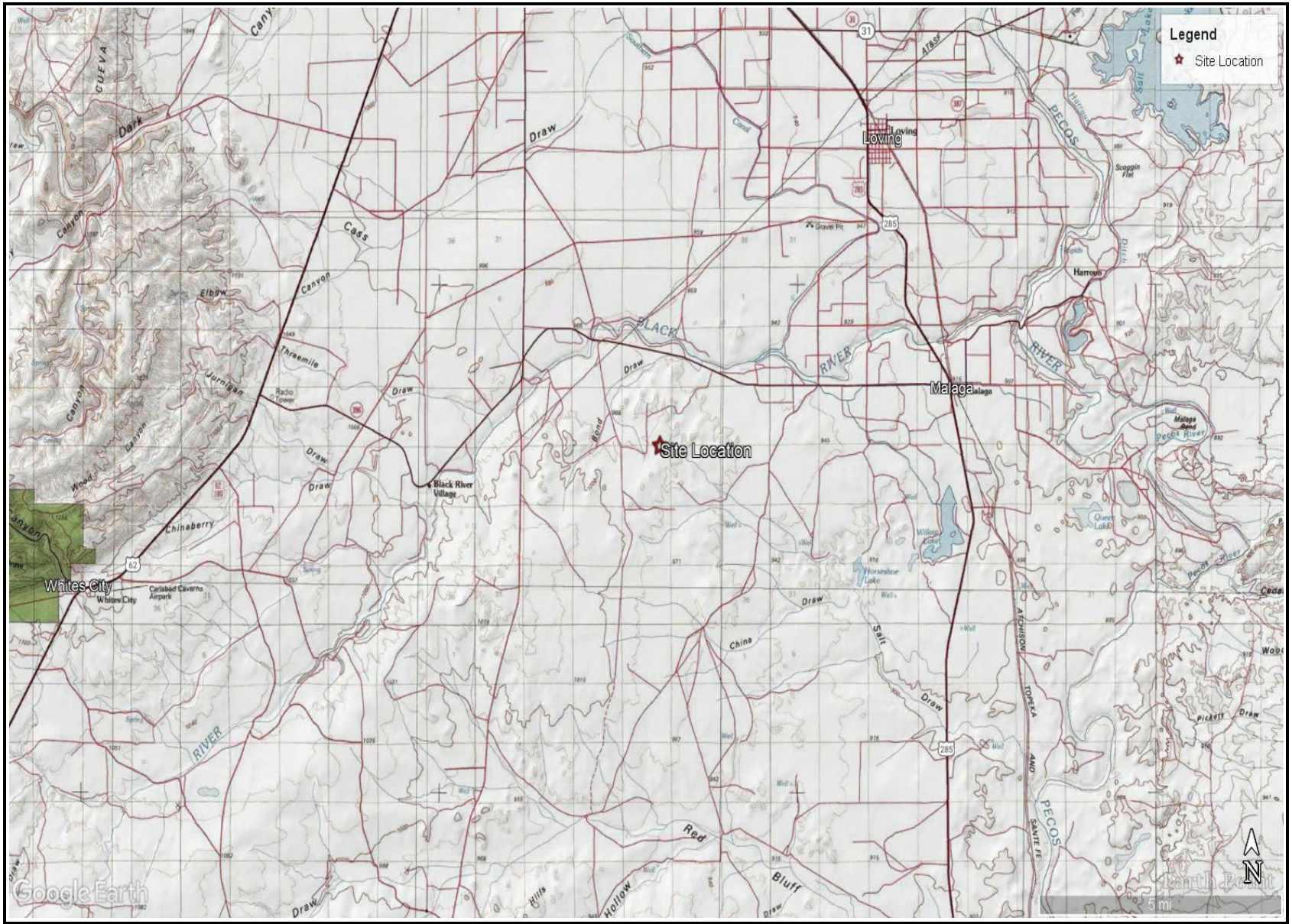
Clinton Merritt
Sr. Project Manager

FIGURES

CARMONA RESOURCES



OVERVIEW MAP MARATHON OIL CORPORATION BLACK RIVER 10 STATE COM #002H EDDY COUNTY, NEW MEXICO 32.21064077°, -104.17339692°	CARMONA RESOURCES	FIGURE 1



TOPOGRAPHIC MAP MARATHON OIL CORPORATION BLACK RIVER 10 STATE COM #002H EDDY COUNTY, NEW MEXICO 32.21064077°, -104.17339692°	CARMONA RESOURCES	FIGURE 2

SAMPLE LOCATION MAP MARATHON OIL CORPORATION BLACK RIVER 10 STATE COM #002H EDDY COUNTY, NEW MEXICO 32.21064077°, -104.17339692°	CARMONA RESOURCES	FIGURE 3

APPENDIX B

CARMONA RESOURCES

Table 1
Marathon Oil Co.
Black River 10 State Com #002H
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	pH (S.U.)
Comp #1	6/28/2023	0-1'	8.0
Comp #2	6/28/2023	0-1'	8.1

ft-feet
(Comp) Compostion Soil Sample

APPENDIX C

CARMONA RESOURCES

PHOTOGRAPHIC LOG

Marathon Oil Corporation

Photograph No. 1

Facility: Black River 10 State Com #002H

County: Eddy County, New Mexico

Description:
View South of sample points Comp #1 and Comp #2.

Photograph No. 2

Facility: Black River 10 State Com #002H

County: Eddy County, New Mexico

Description:
View East of sample points Comp #1 and Comp #2.

Photograph No. 3

Facility: Black River 10 State Com #002H

County: Eddy County, New Mexico

Description:
View Southwest of sample points Comp #1 and Comp #2.

APPENDIX D

CARMONA RESOURCES

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Clint Merritt
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 7/5/2023 10:32:00 AM

JOB DESCRIPTION

Black River 10 State Com #002H
SDG NUMBER Lea County, New Mexico

JOB NUMBER

880-30184-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated
7/5/2023 10:32:00 AM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Carmona Resources
Project/Site: Black River 10 State Com #002H

Laboratory Job ID: 880-30184-1
SDG: Lea County, New Mexico

Table of Contents

Definitions/Glossary

Client: Carmona Resources
Project/Site: Black River 10 State Com #002H

Job ID: 880-30184-1
SDG: Lea County, New Mexico

Qualifiers

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Carmona Resources
Project/Site: Black River 10 State Com #002H

Job ID: 880-30184-1
SDG: Lea County, New Mexico

Job ID: 880-30184-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-30184-1

Receipt
The samples were received on 6/29/2023 2:34 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.5°C

General Chemistry
Method 9045D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: Comp #1 (880-30184-1) and Comp #2 (880-30184-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Carmona Resources
Job ID: 880-30184-1
Project/Site: Black River 10 State Com #002H
SDG: Lea County, New Mexico

Client Sample ID: Comp #1
Lab Sample ID: 880-30184-1
Date Collected: 06/28/23 15:00
Matrix: Solid
Date Received: 06/29/23 14:34

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Temperature (SW846 9045D)	22.5	HF	0.01		Deg. C			07/03/23 14:35	1
Soil pH in Water (SW846 9045D)	8.0	HF	0.01		S.U.			07/03/23 14:35	1

Client Sample ID: Comp #2
Lab Sample ID: 880-30184-2
Date Collected: 06/28/23 15:05
Matrix: Solid
Date Received: 06/29/23 14:34

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Temperature (SW846 9045D)	25.5	HF	0.01		Deg. C			07/03/23 14:35	1
Soil pH in Water (SW846 9045D)	8.1	HF	0.01		S.U.			07/03/23 14:35	1

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 10 State Com #002H

Job ID: 880-30184-1
SDG: Lea County, New Mexico

Method: 9045D - pH

Lab Sample ID: 880-30184-1 DU
Matrix: Solid
Analysis Batch: 56918

Client Sample ID: Comp #1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Temperature	22.5	HF		23.9		Deg. C				6	20
Soil pH in Water	8.0	HF		8.0		S.U.				0.6	10

QC Association Summary

Client: Carmona Resources
Project/Site: Black River 10 State Com #002H

Job ID: 880-30184-1
SDG: Lea County, New Mexico

General Chemistry

Leach Batch: 56834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30184-1	Comp #1	Soluble	Solid	DI Leach	
880-30184-2	Comp #2	Soluble	Solid	DI Leach	
880-30184-1 DU	Comp #1	Soluble	Solid	DI Leach	

Analysis Batch: 56918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30184-1	Comp #1	Soluble	Solid	9045D	56834
880-30184-2	Comp #2	Soluble	Solid	9045D	56834
880-30184-1 DU	Comp #1	Soluble	Solid	9045D	56834

Lab Chronicle

Client: Carmona Resources
Project/Site: Black River 10 State Com #002H

Job ID: 880-30184-1
SDG: Lea County, New Mexico

Client Sample ID: Comp #1

Lab Sample ID: 880-30184-1
Matrix: Solid
Date Collected: 06/28/23 15:00
Date Received: 06/29/23 14:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			20.07 g	20 mL	56834	07/03/23 08:54	KS	EET MID
Soluble	Analysis	9045D		1	20 mL	20 mL	56918	07/03/23 14:35	KS	EET MID

Client Sample ID: Comp #2

Lab Sample ID: 880-30184-2
Matrix: Solid
Date Collected: 06/28/23 15:05
Date Received: 06/29/23 14:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			20.03 g	20 mL	56834	07/03/23 08:54	KS	EET MID
Soluble	Analysis	9045D		1	20 mL	20 mL	56918	07/03/23 14:35	KS	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Carmona Resources
Job ID: 880-30184-1
Project/Site: Black River 10 State Com #002H
SDG: Lea County, New Mexico

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
9045D		Solid	Temperature

Method Summary

Client: Carmona Resources
Project/Site: Black River 10 State Com #002H

Job ID: 880-30184-1
SDG: Lea County, New Mexico

Method	Method Description	Protocol	Laboratory
9045D	pH	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Carmona Resources
Project/Site: Black River 10 State Com #002H

Job ID: 880-30184-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-30184-1	Comp #1	Solid	06/28/23 15:00	06/29/23 14:34
880-30184-2	Comp #2	Solid	06/28/23 15:05	06/29/23 14:34

Work Order No: _____

7/5/2023

Page 1 of 1

Project Manager	Clinton Merritt	Bill to (if different)	Melodie Sanjari
Company Name	Carmona Resources	Company Name	Marathon Oil Corporation
Address	310 W Wall St Ste 500	Address	990 Town and Country Blvd
City, State ZIP	Midland, TX 79701	City, State ZIP	Houston, TX 77024
Phone		Email	msanjari@marathonoil com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables EDD ☐ ADaPT ☐ Other:

Project Name	Black River 10 State Com #002H	Turn Around	
Project Number	2066	☑ Routine	☐ Rush
Project Location	Lea County, New Mexico	Due Date	5 Day TAT
Sampler's Name	CCM		
PO #			

SAMPLE RECEIPT				
Temp Blank	Yes (No)	Wet Ice	(Yes) No	
Received Intact	(Yes) No	Thermometer ID	IR6	
Cooler Custody Seals	Yes No (N/A)	Correction Factor	-.30	
Sample Custody Seals	Yes No (N/A)	Temperature Reading	0.8	
Total Containers		Corrected Temperature	0.5	

ANALYSIS REQUEST

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	Parameters: SW 846 9045C
Comp #1	6/28/2023	15 00	X		Comp	1		X
Comp #2	6/28/2023	15 05	X		comp	1		X

Preservative Codes

None NO	DI Water H_2O
Cool Cool	MeOH Me
HCL HC	HNO_3 HN
H_2S0_4 H_2	NaOH Na
H_3PO_4 HP	
$NaHSO_4$ NABIS	
$Na_2S_2O_3$ $NaSO_3$	
Zn Acetate+NaOH Zn	
NaOH+Ascorbic Acid SAPC	

Sample Comments

880-30184 Chain of Custody

Comments: Email results to Mike Carmona mcarmona@carmonaresources.com, Conner Moehring cmoehring@carmonaresources.com, Clint Merritt MerrittC@carmonaresources.com

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
Mona Lucas	6-29-23 1439		

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-30184-1
SDG Number: Lea County, New Mexico

Login Number: 30184
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

SITE INFORMATION

Report Type: Closure Report 2RP-4559

General Site Information:						
Site:	**Black River 15-10 State Com #2H**					
Company:	**Marathon Oil Company**					
Section, Township and Range	**Unit P**	**Sec. 15**	**T 24S**	**R 27E**		
Lease Number:	**API No. 30-015-42728**					
County:	**Eddy County**					
GPS:	**32.21064077º N**			**104.17339692º W**		
Surface Owner:	State					
Mineral Owner:	State					
Directions:	From the intersection of HWY 285 and Black River Village Rd travel west on Black River Village Rd for approximately 4.9 mi, turn south onto lease road for 2.25 miles, turn south onto lease road for 0.30 miles, turn east onto lease road for 0.5 miles to location.					

Release Data:	
Date Released:	1/4/2018
Type Release:	Hydrochloric Acid and Fresh Water
Source of Contamination:	500 bbl tank
Fluid Released:	250 bbls
Fluids Recovered:	0 bbls

Official Communication:			
Name:	Callie Karrigan		Ike Tavarez
Company:	Marathon Oil		Tetra Tech
Address:	2423 Bonita Street		4000 N. Big Spring
Ste			Ste 401
City:	Carlsbad, New Mexico		Midland, Texas
Phone number:	(575) 297-0691		(432) 687-8110
Fax:			
Email:	cnkarrigan@marathonoil.com		Ike.Tavarez@tetratech.com

Ranking Criteria		
Depth to Groundwater:	***Ranking Score***	***Site Data***
<50 ft	***20***	25'-50'
50-99 ft	10	
>100 ft.	0	
WellHead Protection:	***Ranking Score***	***Site Data***
Water Source <1,000 ft., Private <200 ft.	*20*	
Water Source >1,000 ft., Private >200 ft.	***0***	*0*
Surface Body of Water:	***Ranking Score***	***Site Data***
<200 ft.	*20*	
200 ft - 1,000 ft.	10	
>1,000 ft.	***0***	*0*
Total Ranking Score:	***20***	

Acceptable Soil RRAL (mg/kg)		
Benzene	***Total BTEX***	***TPH***
10	50	100

TETRA TECH

March 12, 2018

Mike Bratcher
Environmental Engineer Specialist
Oil Conservation Division, District 2
811 S. First Street
Artesia, New Mexico 88210

Re: Closure Report for the Marathon Oil, Black River 15-10 State Com #2H, Unit P, Section 15, Township 24 South, Range 27 East, Eddy County, New Mexico. 2RP-4559.

Mr. Bratcher:

Tetra Tech, Inc. (Tetra Tech) was contacted by Marathon Oil (Marathon) to evaluate a release that occurred at the Black River 15-10 State Com #2H, Unit P, Section 15, Township 24 South, Range 27 East, Eddy County, New Mexico (site). The spill site coordinates are N 32.21064077º, W 104.17339692º. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico C-141 Initial Report, the leak was discovered on January 4, 2018, and released approximately two hundred and fifty (250) barrels of a hydrochloric acid and fresh water mix due to a failed nipple on a 500 bbl tank. The release occurred inside a secondary containment which failed, resulting in the release to the pad area and migrated into the adjacent pasture. None of the fluids were recovered. The release area was treated with soda ash to neutralize the acid and the caliche pad area was immediately scraped. The removed material was then taken for proper disposal. The release area in the pasture measured approximately 30’ x 90’ and 6’ x 55’. The initial C-141 form is included in Appendix A.

Groundwater

No water wells were listed in Section 15 on the New Mexico Office of the State Engineer’s (NMOSE) database or the USGS National Water Information System. The nearest well is listed in the NMOSE database in Section 22, approximately 0.60 miles southwest of the site, and has a reported depth to groundwater of 70 feet below surface. According to the Chevron Texaco Groundwater Trend map, the average depth to groundwater in the area is between 25 and 50 feet below surface. The groundwater data is shown in Appendix B.

TETRA TECH

Soil Assessment and Analytical Results

On February 8, 2018, Tetra Tech personnel were onsite to collect confirmation samples of the release area for evaluation. Three (3) composite samples (Area 1, Area 2, and Area 3) were collected to evaluate the release area. Additionally, two background samples (Background #1 and Background #2) were collected to evaluate the native soils. The samples were analyzed for pH by SW-846 9045C. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The sampling results are summarized in Table 1. The sampling locations are shown on Figure 3.

Referring to Table 1, the composite samples (Area 1, Area 2, and Area 3) showed pH levels of 10.3 s.u., 9.61 s.u., and 8.46 s.u., respectively. The background samples showed pH levels of 8.63 s.u. (Background #1) and 8.81 s.u. (Background #2).

Conclusions and Recommendations

Based on the emergency response activities and laboratory data, Marathon requests closure of this spill. The pH detected do not appear to an environmental concern. The final C-141 is enclosed in Appendix A. If you have any questions or comments concerning the assessment or the remediation activities for this site, please call me at (432) 682-4559.

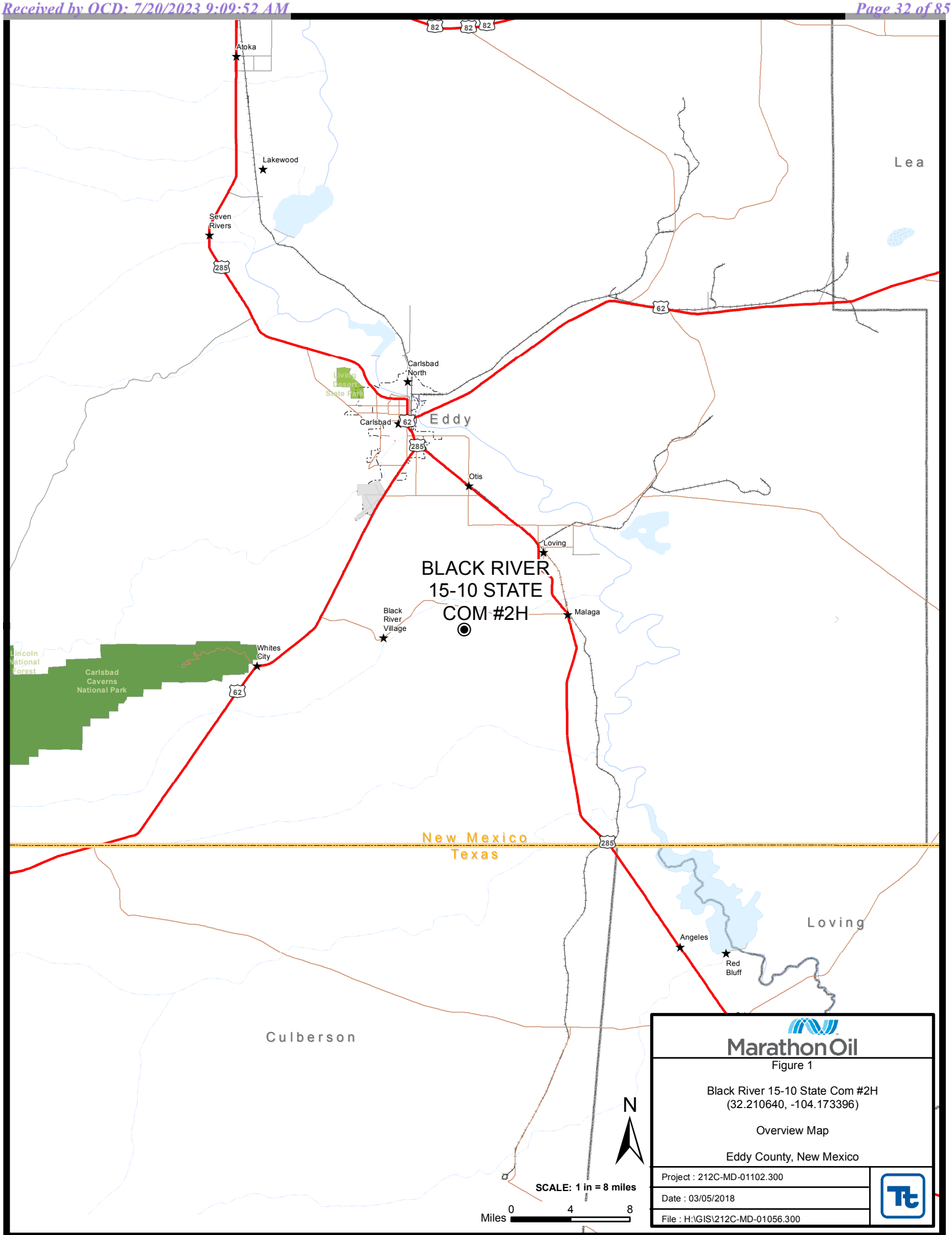
Respectfully submitted,
TETRA TECH

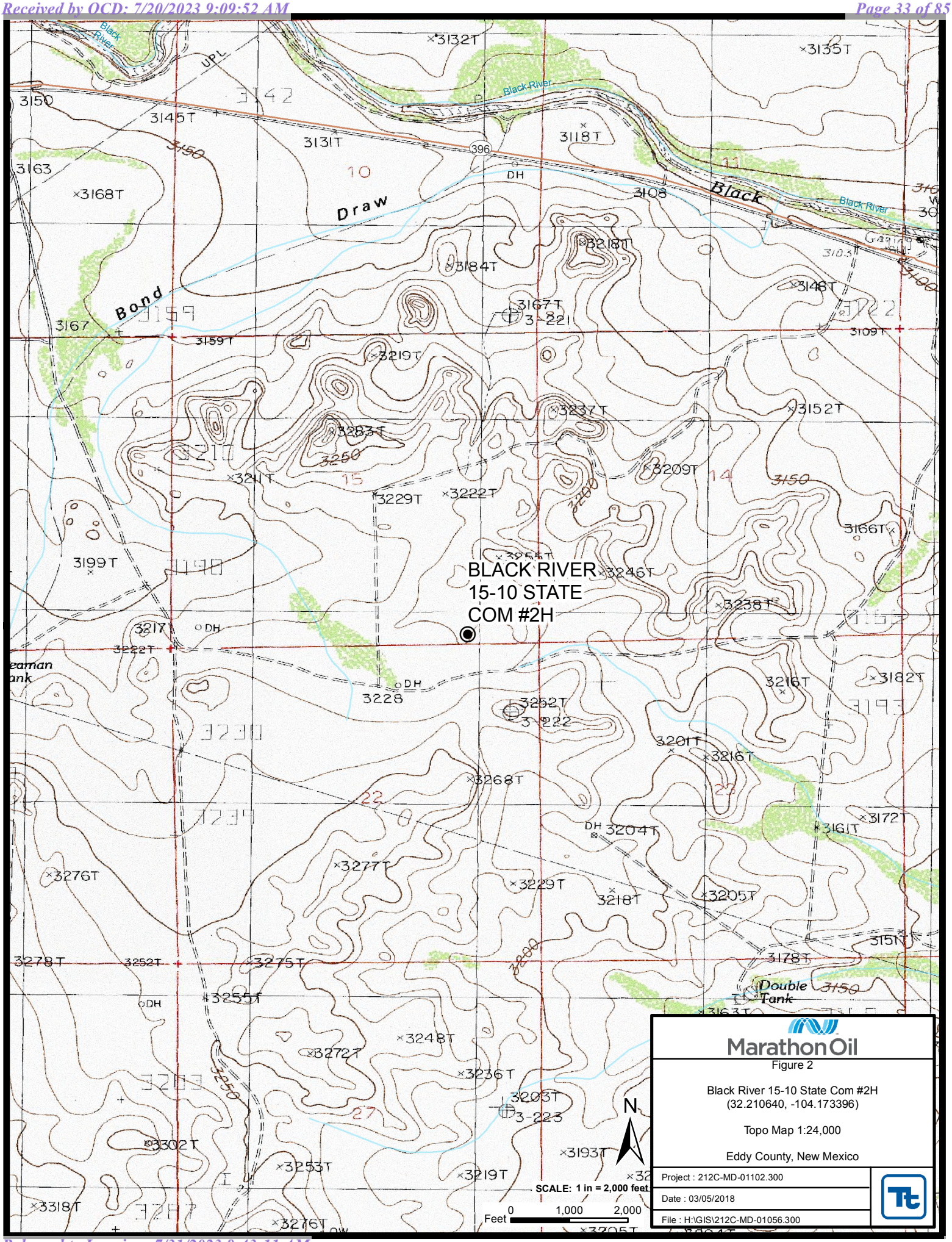
Ike Tavarez, PG
Senior Project Manager

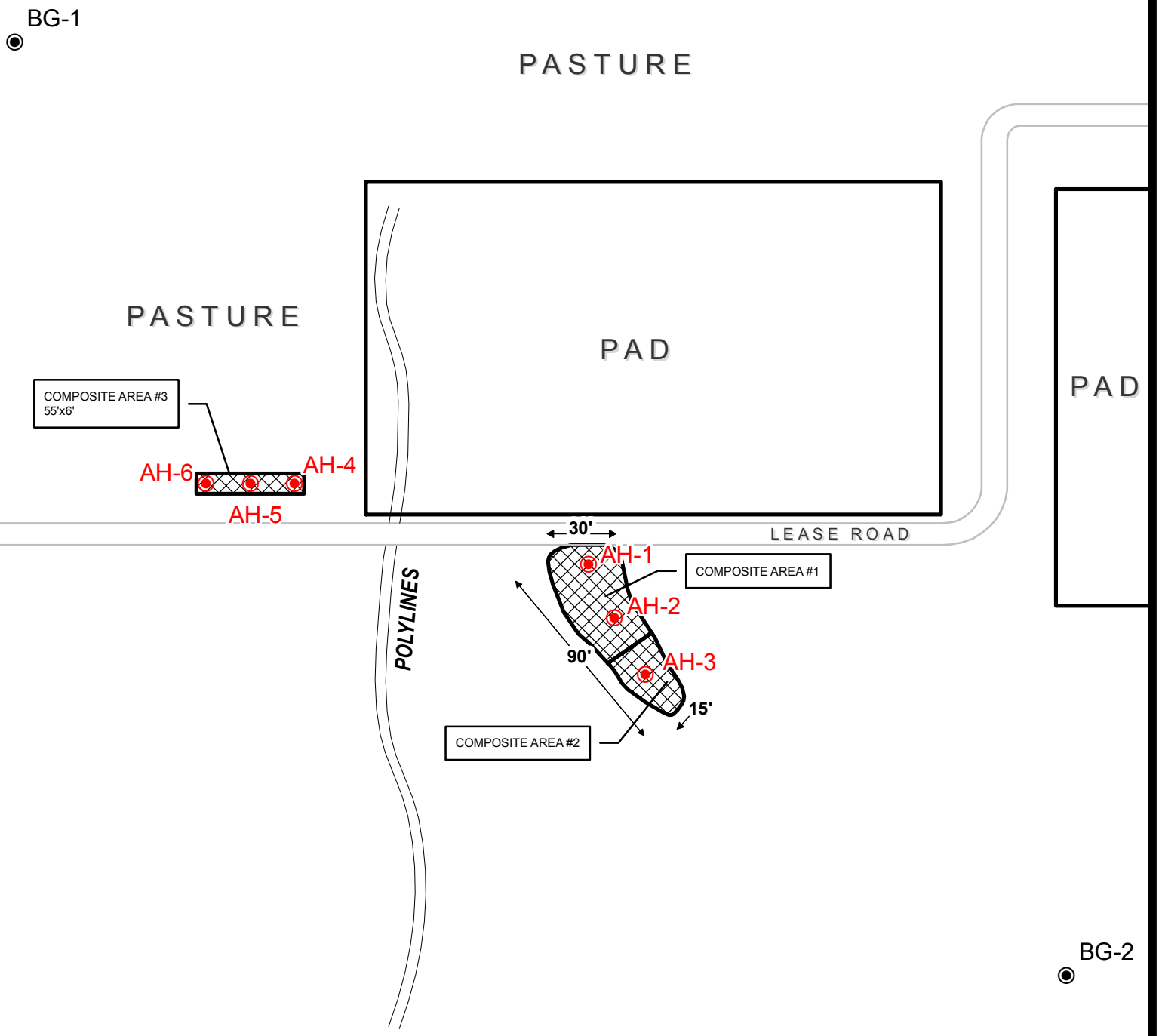
Clair Gonzales,
Project Manager

cc: Callie Karrigan - Marathon

Figures


Atoka
Lakewood
Seven Rivers
Lea
Carlsbad North
Carlsbad
Eddy
Otis
Loving
BLACK RIVER 15-10 STATE COM #2H
Black River Village
Malaga
Whites City
Carlsbad Caverns National Park
New Mexico
Texas
Angeles
Red Bluff
Loving
Culberson
N
SCALE: 1 in = 8 miles
Miles 0 4 8
Marathon Oil
Figure 1
Black River 15-10 State Com #2H
(32.210640, -104.173396)
Overview Map
Eddy County, New Mexico
Project : 212C-MD-01102.300
Date : 03/05/2018
File : H:\GIS\212C-MD-01056.300


BLACK RIVER
15-10 STATE
COM #2H
Black River
Draw
Bond
Double Tank
N
SCALE: 1 in = 2,000 feet
Feet 0 1,000 2,000
Marathon Oil
Figure 2
Black River 15-10 State Com #2H
(32.210640, -104.173396)
Topo Map 1:24,000
Eddy County, New Mexico
Project : 212C-MD-01102.300
Date : 03/05/2018
File : H:\GIS\212C-MD-01056.300



LEGEND

- AUGER HOLE SAMPLE LOCATIONS
- SPILL AREA

N

SCALE: 1 IN = 100 FEET

Feet 0 50 100

Marathon Oil

Figure 3

Black River 15-10 State Com #2H
(32.210640, -104.173396)

Spill Assessment Map

Eddy County, New Mexico

Project : 212C-MD-01102.300	
Date : 03/05/2018	
File : H:\GIS\212C-MD-01056.300	

Tables

Table 1
Marathon Oil Company
Black River 15-10 State Com #2H
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		pH (s.u.)
			In-Situ	Removed	
Area 1 Composite	2/8/2018	0-1	X		10.3
Area 2 Composite	2/8/2018	0-1	X		9.61
Area 3 Composite	2/8/2018	0-1	X		8.46
Background #1	2/8/2018	0-1	X		8.63
Background #2	2/8/2018	0-1	X		8.81

Appendix A

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

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

Form C-141
Revised April 3, 2017

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Marathon Oil Permian LLC	Contact: Jason Wardell
Address: 5555 San Felipe St., Houston, TX 77056	Telephone No.: 575-297-0682
Facility Name: Black River 15 10 State COM X 2H	Facility Type: Gas Well

Surface Owner: State	Mineral Owner: State	API No.: 30-015-42728

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	15	24S	27E	270	FSL	1070	FEL	Eddy

Latitude32.21064077 Longitude-104.17339692 NAD83

NATURE OF RELEASE

Type of Release: HCL & Fresh Water	Volume of Release: 250 bbls	Volume Recovered: 0 bbls
Source of Release: 500 bbl tank	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery: 01/04/2018 – 1131 HRS
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Notification via email to Crystal Weaver, Mike Bratcher and Amber Groves.	
By Whom? Jason Wardell	Date and Hour: 01/04/2018 1712 HRS	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.*
Nipple failure on a 500 bbl tank holding a Hydrochloric Acid and fresh water mix caused fluid to exit tank into temporary secondary containment. The secondary containment also failed resulting in the fluid to impact the well pad as well as run off pad. Leak was stopped and tank repaired.

Describe Area Affected and Cleanup Action Taken.*
Caliche pad was affected on the SW portion of the well pad. Fluid ran off of pad to the S of the well pad as well as the SW most corner. Berms were erected to prevent any further fluid from leaving the pad and soda ash was used per the sds sheet to neutralize the acid both on and off the pad. Impacted caliche was scraped up and disposed of properly. Offsite impacted soil will be delineated and samples taken to ensure all impacted soil has been removed.

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: Jason Wardell	OIL CONSERVATION DIVISION	
Printed Name: Jason Wardell	Approved by Environmental Specialist:	
Title: HES Professional	Approval Date:	Expiration Date:
E-mail Address: jlwardell@marathonoil.com	Conditions of Approval:	Attached ☐
Date: 01/16/2023 Phone: 575-297-06892		

Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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

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

Form C-141
Revised October 10, 2003

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 **Marathon Oil Permian, LLC.**	Contact **Jason Wardell**
Address **5555 San Felipe Street, Houston, Texas 77056**	Telephone No. **575-297-0682**
Facility Name **Black River 15-10 State Com #2H**	Facility Type **Gas Well**

Surface Owner: State	Mineral Owner: State	API No. 30-015-42728

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	15	24S	27E	270	South	1070	East	Eddy

Latitude 32.21064077 **Longitude** -104.17339692 NAD83

NATURE OF RELEASE

Type of Release: Hydrochloric Acid and Fresh Water	Volume of Release 250 bbls	Volume Recovered: 0 bbls
Source of Release: 500 bbl tank	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 01/04/2017 11:31am
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? **Crystal Weaver, Mike Bratcher, and Amber Groves**	
By Whom? Jason Wardell	Date and Hour 01/04/2018 1712hrs	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*

N/A

Describe Cause of Problem and Remedial Action Taken.*

Nipple failure on a 500 bbl tank holding a Hydrochloric Acid and freshwater mix caused the fluid to exit the tank into a temporary secondary containment. The secondary containment failed, resulting in the release. The tank has been repaired. The release occurred on the pad and migrated into the adjacent pasture. Soda ash was used to neutralize the acid and the impacted caliche was removed and taken for proper disposal.

Describe Area Affected and Cleanup Action Taken.*

Tetra Tech collected composite confirmation samples of the release area and analyzed for pH. None of the samples showed an acid pH level. Tetra Tech prepared a closure report and submitted to the NMOCD for review.

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: Ike Tavarez (agent for Marathon)	Approved by District Supervisor:	
Title: Project Manager	Approval Date:	Expiration Date:
E-mail Address: Ike.Tavarez@TetraTech.com	Conditions of Approval:	Attached ☐
Date: 03/02/18 Phone: (432) 682-4559		

* Attach Additional Sheets If Necessary

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	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # *(assigned by OCD)*
Contact mailing address	

Location of Release Source

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

Site Name	Site Type
Date Release Discovered	API# *(if applicable)*

Unit Letter	Section	Township	Range	County

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

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Initial Response

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

☐ The source of the release has been stopped.

☐ The impacted area has been secured to protect human health and the environment.

☐ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

☐ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

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

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

Printed Name: _____ Title: _____

Signature: Callie Kerrigan _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	
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?	_____ (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
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☐ Topographic/Aerial maps
- ☐ Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature: Callie Karrigan _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☐ Description of remediation activities

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

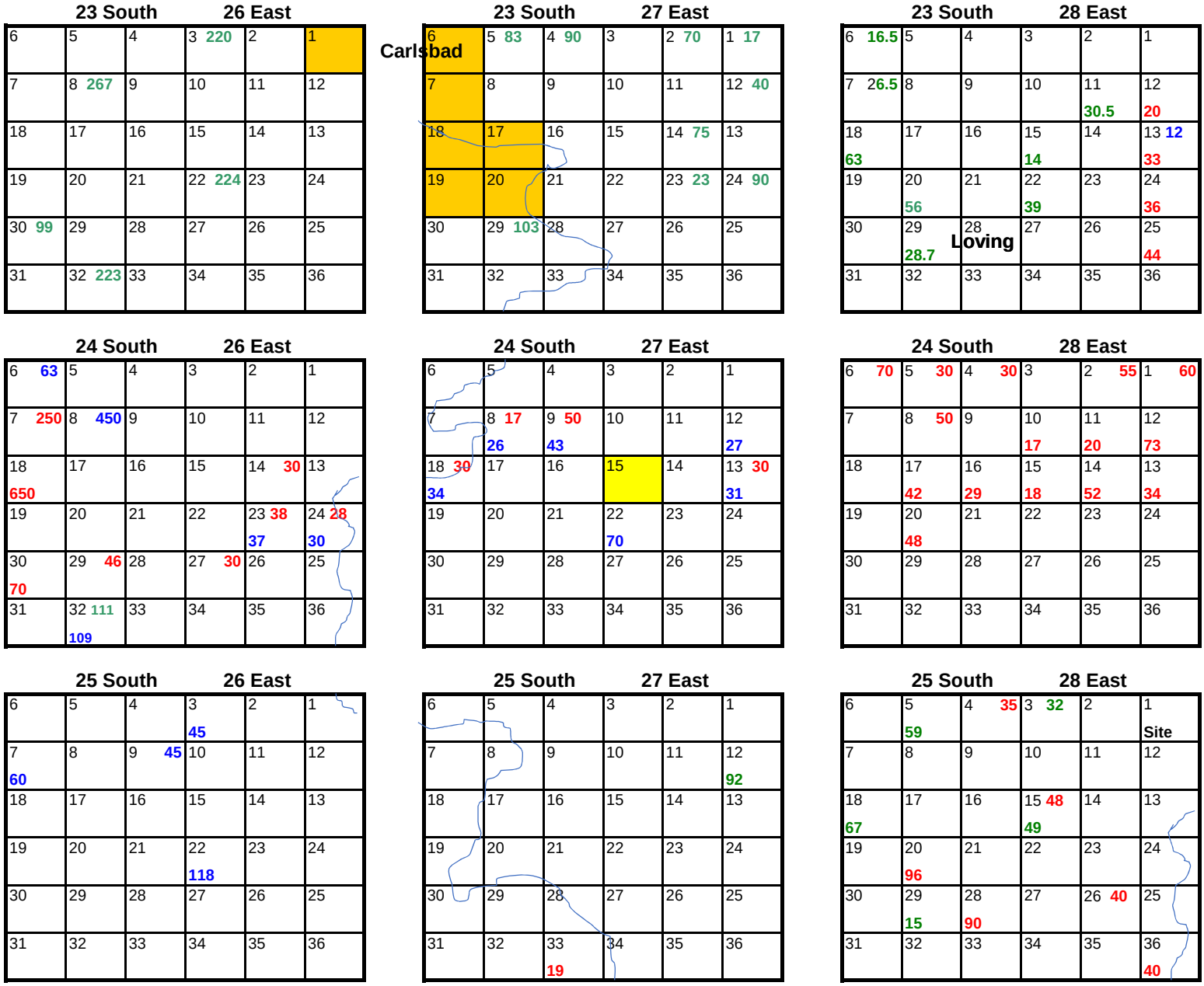
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Appendix B

Water Well Data
Average Depth to Groundwater (ft)
Marathon - Black River 15-10 State Com #2H
Eddy County, New Mexico



88 New Mexico State Engineers Well Reports

105 USGS Well Reports

90 Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6)

Geology and Groundwater Resources of Eddy County, NM (Report 3)

34 NMOCD - Groundwater Data

123 Tetra Tech installed temporary wells and field water level

143 NMOCD Groundwater map well location

New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

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

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 00342	C	C	ED		4	1	13	24S	27E	580432	3565080*	2565		
C 00347			ED		1	1	13	24S	27E	580010	3565479*	60	30	30
C 00364	C	C	ED		1	2	09	24S	27E	575997	3567043*	2270		
C 00516			ED	1	3	4	08	24S	27E	574288	3565901*	105	36	69
C 00516 CLW201016	O		ED	1	3	4	08	24S	27E	574288	3565901*	62		
C 00516 CLW308590	O		ED	1	3	4	08	24S	27E	574288	3565901*	105	36	69
C 00516 POD6			ED	1	4	3	08	24S	27E	573885	3565895*	78	17	61
C 00516 S		C	ED	1	3	4	08	24S	27E	574288	3565901	50	17	33
C 00631		C	ED	3	3	4	08	24S	27E	574288	3565701*	50	24	26
C 00683		C	ED		4	3	08	24S	27E	573986	3565796*	50	17	33
C 00821		C	ED		3	2	09	24S	27E	575996	3566635*	97	50	47
C 00850		C	ED		2	3	09	24S	27E	575595	3566223*	108	35	73
C 00929		C	ED		3	3	18	24S	27E	572013	3564159*	54	33	21
C 01169		C	ED	1	4	3	18	24S	27E	572282	3564261*	55	35	20
C 01187		C	ED		4	3	08	24S	27E	573986	3565796*	108	17	91
C 01366			ED			4	08	24S	27E	574590	3566003*	60	35	25
C 01452		C	ED				22	24S	27E	577435	3563175*	95	70	25
C 01721		C	ED			1	25	24S	27E	580271	3562033*	170		
C 01841		C	ED			1	29	24S	27E	573806	3561953*	150		
C 01943		C	ED			1	13	24S	27E	580221	3565275*	30	25	5
C 02976		C	ED	4	2	3	12	24S	27E	580519	3566195*	57	27	30
C 03037		C	ED	4	3	4	12	24S	27E	580930	3565795*	116	25	91
C 03092		C	ED	4	3	1	08	24S	27E	573678	3566501*	54	37	17
C 03145		C	ED	3	1	4	13	24S	27E	580749	3564579*	103	40	63
C 03147		C	ED	3	3	3	12	24S	27E	579885	3565715	140		
C 03260 POD1		C	ED	3	3	3	12	24S	27E	579995	3565935	80	56	24
C 03260 POD2	O	C	ED	1	3	3	12	24S	27E	580100	3565984	80	56	24
C 03489 POD1		C	ED	2	4	3	08	24S	27E	574153	3565939	200		
C 03490 POD1		C	ED	3	4	3	08	24S	27E	573812	3565709	140	23	117
C 03560 POD1		C	ED	2	3	3	18	24S	27E	572009	3564150	68	28	40
C 03740 POD1		C	ED	4	4	4	12	24S	27E	581283	3565795	340		
C 04147 POD1		CUB	ED	4	1	3	24	24S	27E	580101	3562969	35		

Average Depth to Water: **33 feet**

Minimum Depth:	**17 feet**
Maximum Depth:	**70 feet**

Record Count: 32

PLSS Search:

Township: 24S **Range:** 27E

***UTM location was derived from PLSS - see Help**

3/1/18 10:20 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Appendix C

Analytical Report 576034

for

Tetra Tech- Midland

Project Manager: Ike Tavarez

Black River 15-10 State Com 4H

15-FEB-18

Collected By: Client

1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-17-23), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab code: TX01468):
Texas (T104704295-17-15), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab code: TX00127): Texas (T104704221-17-12)
Xenco-Lubbock (EPA Lab code: TX00139): Texas (T104704219-17-16)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-17-13)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

15-FEB-18

Project Manager: **Ike Tavarez**
Tetra Tech- Midland
4000 N. Big Spring Suite 401
Midland, TX 79705

Reference: XENCO Report No(s): **576034**
Black River 15-10 State Com 4H
Project Address: Eddy Co, NM

Ike Tavarez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 576034. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 576034 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Kelsey Brooks
Project Manager

Sample Cross Reference 576034

Tetra Tech- Midland, Midland, TX

Black River 15-10 State Com 4H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Area 1 Composite (0-1)	S	02-08-18 00:00		576034-001
Area 2 Composite (0-1)	S	02-08-18 00:00		576034-002
Area 3 Composite (0-1)	S	02-08-18 00:00		576034-003
Background #1 (0-1)	S	02-08-18 00:00		576034-004
Background #2 (0-1)	S	02-08-18 00:00		576034-005

CASE NARRATIVE

Client Name: Tetra Tech- Midland

Project Name: Black River 15-10 State Com 4H

Project ID:
Work Order Number(s): *576034*

Report Date: *15-FEB-18*
Date Received: *02/09/2018*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Certificate of Analysis Summary 576034

Tetra Tech- Midland, Midland, TX

Project Name: Black River 15-10 State Com 4H

Project Id:
Contact: Ike Tavarez
Project Location: Eddy Co, NM

Date Received in Lab: Fri Feb-09-18 11:00 am
Report Date: 15-FEB-18
Project Manager: Kelsey Brooks

Analysis Requested										
	Lab Id:	576034-001		576034-002		576034-003		576034-004		576034-005	
	Field Id:	Area 1 Composite (0-1)		Area 2 Composite (0-1)		Area 3 Composite (0-1)		Background #1 (0-1)		Background #2 (0-1)	
	Depth:										
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Feb-08-18 00:00		Feb-08-18 00:00		Feb-08-18 00:00		Feb-08-18 00:00		Feb-08-18 00:00	
Soil pH by SW-846 9045C	***Extracted:***										
	Analyzed:	Feb-12-18 08:16		Feb-12-18 08:16		Feb-12-18 08:16		Feb-12-18 08:16		Feb-12-18 08:16	
	Units/RL:	SU	RL	SU	RL	SU	RL	SU	RL	SU	RL
pH		10.3		9.61		8.46		8.63		8.81	

Kelsey Brooks
Project Manager

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - San Antonio - Atlanta - Midland/Odessa - Tampa/Lakeland - Phoenix - Latin America

	Phone	Fax
4147 Greenbriar Dr, Stafford, TX 77477	(281) 240-4200	(281) 240-4280
9701 Harry Hines Blvd , Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
1211 W Florida Ave, Midland, TX 79701	(432) 563-1800	(432) 563-1713
2525 W. Huntington Dr. - Suite 102, Tempe AZ 85282	(602) 437-0330	

Sample Duplicate Recovery

Project Name: Black River 15-10 State Com 4H

Work Order #: 576034

Lab Batch #: 3040706 **Project ID:**

Date Analyzed: 02/12/2018 08:16 **Date Prepared:** 02/12/2018 **Analyst:** LRI

QC- Sample ID: 576034-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: SU

Soil pH by SW-846 9045C Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
pH	10.3	10.4	1	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

4000 N. Big Spring Street, Ste
401 Midland,Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

5760034

Client Name: Marathon

Site Manager: Ike Tavarez

Project Name: Black River 15-10 State com 4H

Project Location: (county, state) Eddy County, New Mexico

Project #: 212C-MD-01102 (Task 300)

Invoice to:

Receiving Laboratory: Xenco

Sampler Signature: Mike C, Sterling B

Comments:

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)
	Area 1 Composite (0-1)	2-8-18			X				X		1	N
	Area 2 Composite (0-1)	"			X				X		1	N
	Area 3 Composite (0-1)	"			X				X		1	N
	Background #1 (0-1)	"			X				X		1	N
	Background #2 (0-1)	"			X				X		1	N

ANALYSIS REQUEST (Circle or Specify Method No.)

BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	PH		Hold
																		X		
																		X		
																		X		
																		X		
																		X		

Relinquished by: Date: 2-9-18 Time: 1100

Received by: Date: 2/9/18 Time: 1100

Relinquished by: Date: Time:

Received by: Date: Time:

Relinquished by: Date: Time:

Received by: Date: Time:

LAB USE ONLY

Sample Temperature

REMARKS: Standard

RUSH: Same Day 24 hr 48 hr 72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

~~HAND DELIVERED~~ FEDEX UPS Tracking #:

ORIGINAL COPY

Temp: 2.7 IR ID:R-8

CF:(0-6: -0.2°C)
(6-23: +0.2°C)

Corrected Temp: 2.5

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Tetra Tech- Midland

Date/ Time Received: 02/09/2018 11:00:00 AM

Work Order #: 576034

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	2.5
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**No**
#18 Water VOC samples have zero headspace?	**N/A**

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Shawnee Smith Date: 02/09/2018

Shawnee Smith

Checklist reviewed by: Kelsey Brooks Date: 02/11/2018

Kelsey Brooks

APPENDIX A

CARMONA RESOURCES

CARMONA RESOURCES

July 7, 2023

Mike Bratcher
District Supervisor
Oil Conservation Division, District 2
811 S. First Street
Artesia, New Mexico 88210

Re: Amendment to Closure Report
Black River 10 State Com #002H
Marathon Oil Corporation
2RP-4559
Site Location: Unit P, S15, T24S, R27E
(Lat 32.21064077°, Long -104.17339692°)
Eddy County, New Mexico

Mr. Bratcher:

On behalf of Marathon Oil Corporation (Marathon), Carmona Resource, LLC has prepared this letter to document additional site activities for the Black River 10 State Com #2H. The site is located at the GPS 32.21064077°, -104.17339692° within Unit P, S15, T24S, R27E in Eddy County, New Mexico.

1.0 Site Information and Background

2RP-4559

On June 15, 2023, the New Mexico OCD denied the closure report for the following reason: This closure is denied. The area 1 and area 2 composite closure samples do not reflect background or neutral PH levels. This spill must be remediated to meet the requirements of NMAC 19.15.29. 12 and 19.15.29.13. A revised closure report should be resubmitted no later than 09/13/2023.

2.0 Site Assessment Activities

On June 28, 2023, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts from the release. Two (2) composite sample points (Comp #1 and Comp #2) were advanced to a depth ranging from the surface to 1.0’ bgs inside the release at Area 1 and Area 2 to assess the vertical extent. See Figure 3 for the sample locations. For chemical analysis, the soil samples were collected, stored on ice, and placed directly into laboratory-provided sample containers and transported under the proper chain-of-custody protocol to Europhins Laboratories in Midland, Texas. The samples were analyzed for pH by method 9045D. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix D.

310 West Wall Street, Suite 500
Midland, Texas 79701
432.813.1992

CARMONA RESOURCES

All samples were at or below background levels. Refer to Table 1. The sample points of Comp #1 and Comp #2 have undergone natural attenuation from precipitation and weather events that occurred from the initial sampling on February 2, 2018, to the present.

3.0 Conclusions

Based on the assessment results and the analytical data, no further actions are required at the site. The final C-141 is attached in Appendix A of the original request for closure. Marathon formally requests the closure of the spill. If you have any questions regarding this report or need additional information, please get in touch with us at 432-813-1992.

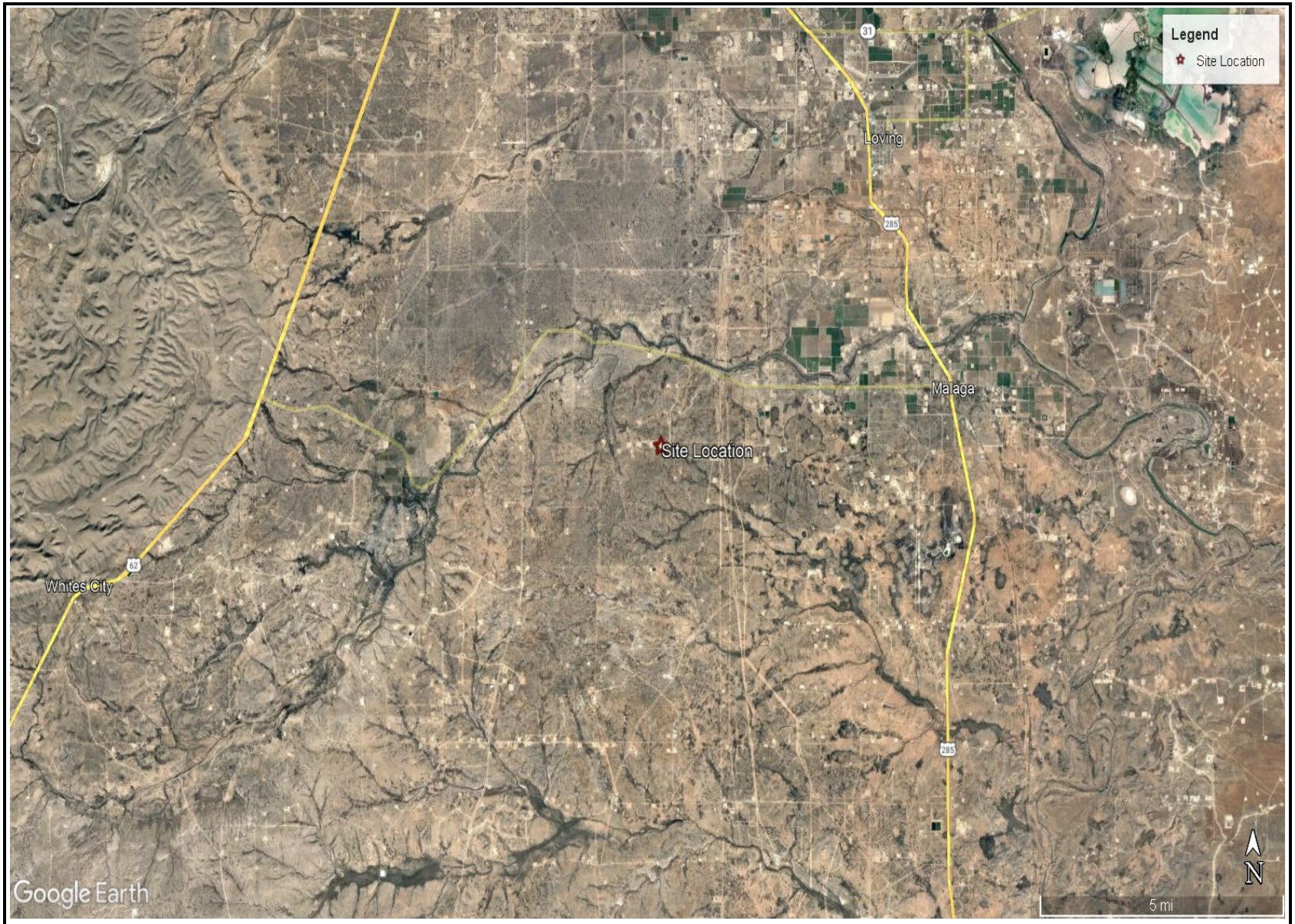
Sincerely,
Carmona Resources, LLC

Mike Carmona
Environmental Manager

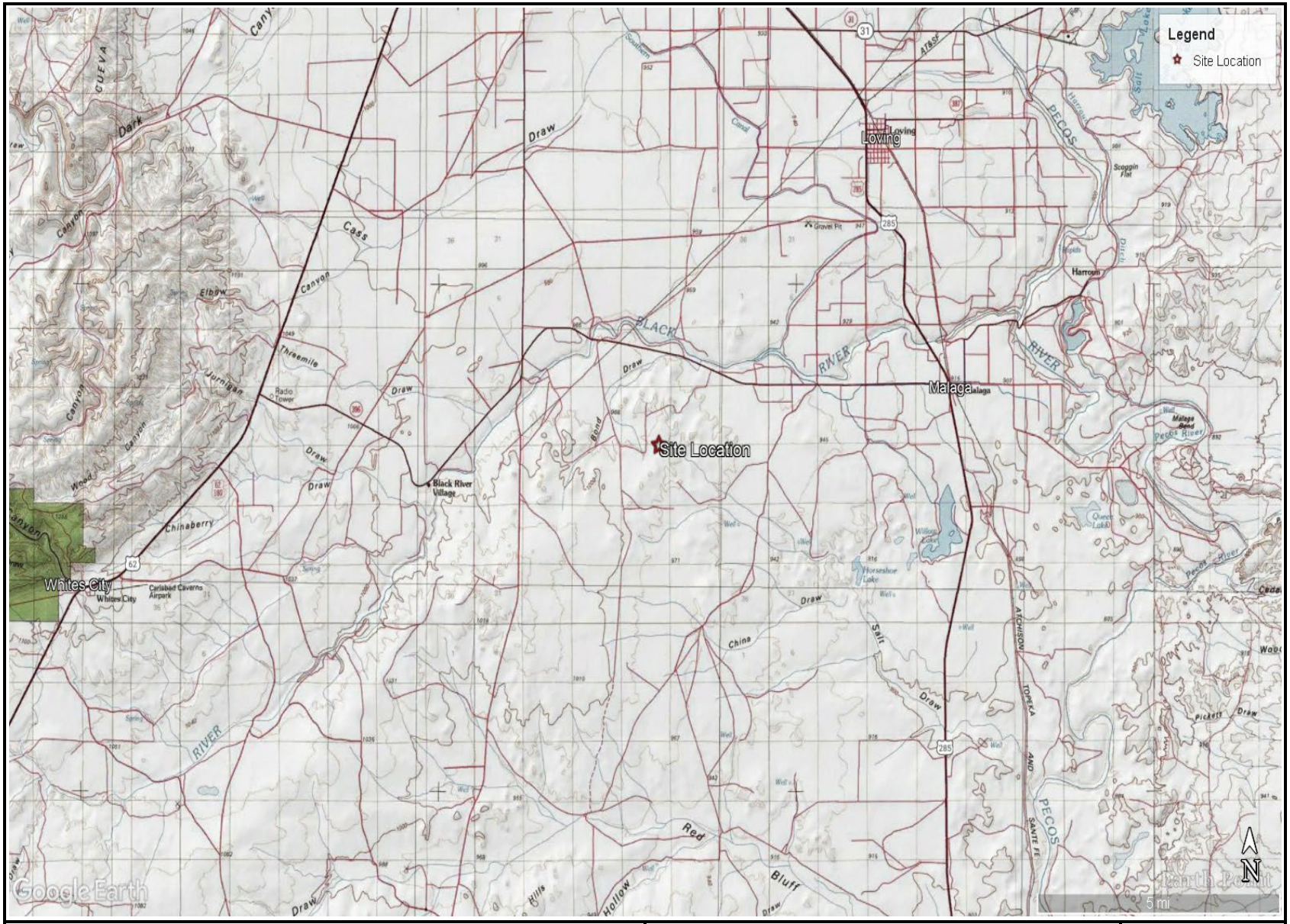
Clinton Merritt
Sr. Project Manager

FIGURES

CARMONA RESOURCES



OVERVIEW MAP MARATHON OIL CORPORATION BLACK RIVER 10 STATE COM #002H EDDY COUNTY, NEW MEXICO 32.21064077°, -104.17339692°	CARMONA RESOURCES	FIGURE 1



TOPOGRAPHIC MAP MARATHON OIL CORPORATION BLACK RIVER 10 STATE COM #002H EDDY COUNTY, NEW MEXICO 32.21064077°, -104.17339692°	CARMONA RESOURCES	FIGURE 2

SAMPLE LOCATION MAP MARATHON OIL CORPORATION BLACK RIVER 10 STATE COM #002H EDDY COUNTY, NEW MEXICO 32.21064077°, -104.17339692°	CARMONA RESOURCES	FIGURE 3

APPENDIX B

CARMONA RESOURCES

Table 1
Marathon Oil Co.
Black River 10 State Com #002H
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	pH (S.U.)
Comp #1	6/28/2023	0-1'	8.0
Comp #2	6/28/2023	0-1'	8.1

ft-feet
(Comp) Compostion Soil Sample

APPENDIX C

CARMONA RESOURCES

PHOTOGRAPHIC LOG

Marathon Oil Corporation

Photograph No. 1

Facility: Black River 10 State Com #002H

County: Eddy County, New Mexico

Description:
View South of sample points Comp #1 and Comp #2.

Photograph No. 2

Facility: Black River 10 State Com #002H

County: Eddy County, New Mexico

Description:
View East of sample points Comp #1 and Comp #2.

Photograph No. 3

Facility: Black River 10 State Com #002H

County: Eddy County, New Mexico

Description:
View Southwest of sample points Comp #1 and Comp #2.

APPENDIX D

CARMONA RESOURCES

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Clint Merritt
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 7/5/2023 10:32:00 AM

JOB DESCRIPTION

Black River 10 State Com #002H
SDG NUMBER Lea County, New Mexico

JOB NUMBER

880-30184-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

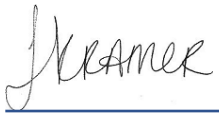
Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
7/5/2023 10:32:00 AM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Carmona Resources
Project/Site: Black River 10 State Com #002H

Laboratory Job ID: 880-30184-1
SDG: Lea County, New Mexico

Table of Contents

Definitions/Glossary

Client: Carmona Resources
Project/Site: Black River 10 State Com #002H

Job ID: 880-30184-1
SDG: Lea County, New Mexico

Qualifiers

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Carmona Resources
Project/Site: Black River 10 State Com #002H

Job ID: 880-30184-1
SDG: Lea County, New Mexico

Job ID: 880-30184-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-30184-1

Receipt
The samples were received on 6/29/2023 2:34 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.5°C

General Chemistry
Method 9045D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: Comp #1 (880-30184-1) and Comp #2 (880-30184-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Carmona Resources
Job ID: 880-30184-1
Project/Site: Black River 10 State Com #002H
SDG: Lea County, New Mexico

Client Sample ID: Comp #1
Lab Sample ID: 880-30184-1
Date Collected: 06/28/23 15:00
Matrix: Solid
Date Received: 06/29/23 14:34

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Temperature (SW846 9045D)	22.5	HF	0.01		Deg. C			07/03/23 14:35	1
Soil pH in Water (SW846 9045D)	8.0	HF	0.01		S.U.			07/03/23 14:35	1

Client Sample ID: Comp #2
Lab Sample ID: 880-30184-2
Date Collected: 06/28/23 15:05
Matrix: Solid
Date Received: 06/29/23 14:34

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Temperature (SW846 9045D)	25.5	HF	0.01		Deg. C			07/03/23 14:35	1
Soil pH in Water (SW846 9045D)	8.1	HF	0.01		S.U.			07/03/23 14:35	1

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 10 State Com #002H

Job ID: 880-30184-1
SDG: Lea County, New Mexico

Method: 9045D - pH

Lab Sample ID: 880-30184-1 DU
Matrix: Solid
Analysis Batch: 56918

Client Sample ID: Comp #1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Temperature	22.5	HF		23.9		Deg. C				6	20
Soil pH in Water	8.0	HF		8.0		S.U.				0.6	10

QC Association Summary

Client: Carmona Resources
Project/Site: Black River 10 State Com #002H

Job ID: 880-30184-1
SDG: Lea County, New Mexico

General Chemistry

Leach Batch: 56834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30184-1	Comp #1	Soluble	Solid	DI Leach	
880-30184-2	Comp #2	Soluble	Solid	DI Leach	
880-30184-1 DU	Comp #1	Soluble	Solid	DI Leach	

Analysis Batch: 56918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30184-1	Comp #1	Soluble	Solid	9045D	56834
880-30184-2	Comp #2	Soluble	Solid	9045D	56834
880-30184-1 DU	Comp #1	Soluble	Solid	9045D	56834

Lab Chronicle

Client: Carmona Resources
Project/Site: Black River 10 State Com #002H

Job ID: 880-30184-1
SDG: Lea County, New Mexico

Client Sample ID: Comp #1

Lab Sample ID: 880-30184-1

Date Collected: 06/28/23 15:00
Matrix: Solid
Date Received: 06/29/23 14:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			20.07 g	20 mL	56834	07/03/23 08:54	KS	EET MID
Soluble	Analysis	9045D		1	20 mL	20 mL	56918	07/03/23 14:35	KS	EET MID

Client Sample ID: Comp #2

Lab Sample ID: 880-30184-2

Date Collected: 06/28/23 15:05
Matrix: Solid
Date Received: 06/29/23 14:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			20.03 g	20 mL	56834	07/03/23 08:54	KS	EET MID
Soluble	Analysis	9045D		1	20 mL	20 mL	56918	07/03/23 14:35	KS	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Carmona Resources
Job ID: 880-30184-1
Project/Site: Black River 10 State Com #002H
SDG: Lea County, New Mexico

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
9045D		Solid	Temperature

Method Summary

Client: Carmona Resources
Job ID: 880-30184-1
Project/Site: Black River 10 State Com #002H
SDG: Lea County, New Mexico

Method	Method Description	Protocol	Laboratory
9045D	pH	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Carmona Resources
Project/Site: Black River 10 State Com #002H

Job ID: 880-30184-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-30184-1	Comp #1	Solid	06/28/23 15:00	06/29/23 14:34
880-30184-2	Comp #2	Solid	06/28/23 15:05	06/29/23 14:34

Work Order No: _____

7/5/2023

Page 1 of 1

Project Manager	Clinton Merritt	Bill to (if different)	Melodie Sanjari
Company Name	Carmona Resources	Company Name	Marathon Oil Corporation
Address	310 W Wall St Ste 500	Address	990 Town and Country Blvd
City, State ZIP	Midland, TX 79701	City, State ZIP	Houston, TX 77024
Phone		Email	msanjari@marathonoil com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables EDD ☐ ADaPT ☐ Other:

Project Name	Black River 10 State Com #002H	Turn Around	
Project Number	2066	☑ Routine	☐ Rush
Project Location	Lea County, New Mexico	Due Date	5 Day TAT
Sampler's Name	CCM		
PO #			

SAMPLE RECEIPT				
Temp Blank	Yes (No)	Wet Ice	(Yes) No	
Received Intact	(Yes) No	Thermometer ID	IR6	
Cooler Custody Seals	Yes No (N/A)	Correction Factor	-.30	
Sample Custody Seals	Yes No (N/A)	Temperature Reading	0.8	
Total Containers		Corrected Temperature	0.5	

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	Parameters	SW 846 9045C
Comp #1	6/28/2023	15 00	X		Comp	1			X
Comp #2	6/28/2023	15 05	X		comp	1			X

ANALYSIS REQUEST

Preservative Codes

None NO	DI Water H_2O
Cool Cool	MeOH Me
HCL HC	HNO_3 HN
H_2S0_4 H_2	NaOH Na
H_3PO_4 HP	
$NaHSO_4$ NABIS	
$Na_2S_2O_3$ $NaSO_3$	
Zn Acetate+NaOH Zn	
NaOH+Ascorbic Acid SAPC	

Sample Comments

880-30184 Chain of Custody

Comments: Email results to Mike Carmona mcarmona@carmonaresources.com, Conner Moehring cmoehring@carmonaresources.com, Clint Merritt MerrittC@carmonaresources.com

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
Mona Lucas	6-29-23 1439		

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-30184-1
SDG Number: Lea County, New Mexico

Login Number: 30184
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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

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

CONDITIONS

Action 242486

CONDITIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 242486
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	7/31/2023