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	NRM2014856222
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Marathon Oil Permian LLC	OGRID 372098
Contact Name Melodie Sanjari	Contact Telephone 575-988-8753
Contact email msanjari@marathonoil.com	Incident # *(assigned by OCD)*
Contact mailing address 4111 S. Tidwell Rd., Carlsbad, NM 8220	

Location of Release Source

Latitude 32.20598677 Longitude -104.05095012
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Fiddle Fee 23X 1H	Site Type: Oil & Gas
Date Release Discovered: 5/21/2020	API# *(if applicable)* 30-015-44094

Unit Letter	Section	Township	Range	County
H	23	24S	28E	Eddy

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) 140.04	Volume Recovered (bbls) 140
	Is the concentration of dissolved chloride 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

A corrosive mechanism resulted in a pinhole forming in the spool of the 1H separator on the location, which ultimately caused the release of approximately 140 bbl of fluid inside of the facility's containment and a small 15*5 area of overspray from the source between the containment wall, the electrical panel and the containment's stairs. A vac truck was dispatched to recover the standing fluids inside of the containment and repairs were to the separator were made. A 48 hour notice will be given to NMOCD before a liner integrity inspection is conducted.

State of New Mexico
Oil Conservation Division

Incident ID	NRM2014856222
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? >25 bbl released
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, via email by Melodie Sanjari to NMOCD District II Reps on 5/22/2020	

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: Melodie Sanjari Title: Environmental Professional

Signature: Melodie Sanjari Date: 5/27/2020

email: msanjari@marathonoil.com Telephone: 575-988-8753

OCD Only

Received by: _____ Date: _____

Incident ID	NRM2014856222
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: Environmental Professional

Signature: Melodie Sanjari Date: 6/22/2020

email: msanjari@marathonoil.com Telephone: 575-988-8753

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: _____

Souder, Miller & Associates♦201 S. Halagueno St.♦Carlsbad, NM 88220
(575) 689-7040

June 22, 2020 SMA #5E28980, BG8

Marathon Oil, Permian LLC
411 S. Tidwell Road
Carlsbad, NM 88220
Attn.: Ms. Melodie Sanjari

RE: FIDDLE FEE 23X 1H LETTER REPORT, EDDY COUNTY, NEW MEXICO

Dear Ms. Sanjari:

Souder, Miller & Associates (SMA) is pleased to submit this letter report to Marathon Oil, Permian LLC (Marathon) summarizing confirmation sampling for the Fiddle Fee 23X 1H release. The site is located in Unit Letter H, Section 23, Township 24S, Range 28E, (N32.20598677/W-104.05095012) Eddy County, New Mexico, on privately-owned surface.

Site Characterization

On May 21, 2020, a release occurred due to a corrosive mechanism causing a pinhole that resulted in the release of 140 barrels of produced water inside the containment and 0.04 bbl. of over-spray on the engineered pad. At the request of Marathon, on June 11, 2020, SMA collected one (1) composite soil sample from the 75 sq ft over-spray area in between the containment and the electrical panel following recovery to ensure that the release was properly remediated. One sample location (SL1) was collected from the over-spray area from surface to 0.5 feet below grade surface (bgs). Figure 3 depicts the sample location. Upon completion of sampling, the soil sample was delivered to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico for analysis.

Based upon New Mexico Office of the State Engineer (NMOSE) and depth to groundwater in the area is estimated to be between 50 to 100 feet below grade surface (bgs). There are no known water sources within ½-mile of the location, according to the NMOSE online water well database (https://gis.ose.state.nm.us/gisapps/ose_pod_locations/; accessed June 22, 2020; Appendix B). The nearest significant watercourse is an unnamed intermittent stream, located approximately 3,420 feet to the southwest.

Based on the information presented herein, the applicable NMOCD Closure Criteria for this site is for a groundwater depth of 50-100 feet bgs. The site has been restored to meet the standards of Table I of 19.15.29.12 NMAC

Analytical Results

The Fiddle Fee 23X 1H soil sample was analyzed utilizing the following EPA-Approved methods:

- **EPA Method 8021** for the detection of light end hydrocarbons (BTEX) including Benzene, Toluene, Ethylbenzene, and total Xylenes.
- **EPA Method 8015B** for diesel, gasoline and motor oil range organics (DRO/GRO/MRO)
- **EPA Method 300** for the detection of anions, specifically chlorides.

Marathon Oil, Permian LLC 5E28980 BG8
Fiddle Fee 23X 1H (NRM2014856222)

Analytical results are summarized in Table 1 below. A copy of the laboratory report is attached in Appendix A.

Table 1. Marathon Oil, Permian LLC Fiddle Fee 23X 1H

Sample ID	Sample Date	Depth (feet bgs)	Proposed Action/ Action Taken	BTEX mg/Kg	Benzene mg/Kg	GRO mg/Kg	DRO mg/Kg	GRO + DRO mg/Kg	MRO mg/Kg	**Total TPH** mg/Kg	Cl- mg/Kg
NMOCD Closure Criteria				50	10			1000		100	10000
SL1	6/11/2020	0-.5'	In-Situ	<0.211	<0.023	<4.7	<9.6	<14.3	<48	<62.3	<60

The liner inspection conducted by Marathon is included at the end of this report. SMA recommends no further action for this release.

Souder, Miller and Associates appreciates the opportunity to provide environmental services to you. If you have any questions or comments concerning this report, please feel free to call Lynn Acosta at 505-516-7469

Sincerely,
Souder, Miller & Associates

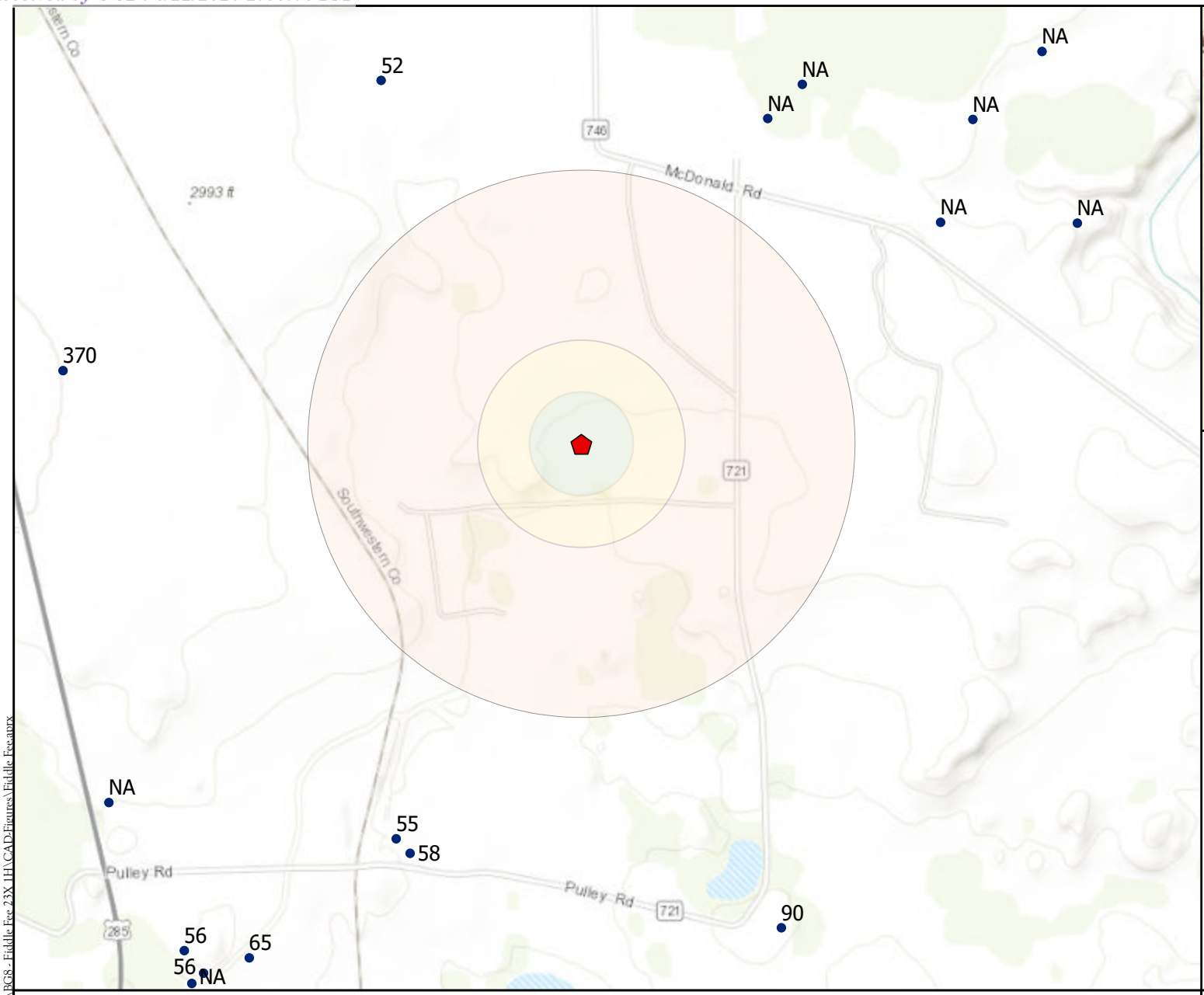
Lynn A. Acosta
Staff Geoscientist I

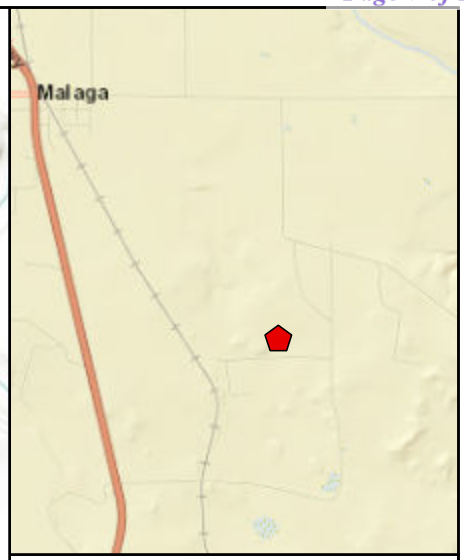
Shawna Chubbuck
Senior Scientist

Figures:
Figure 1: Regional Vicinity and Wellhead Protection Map
Figure 2: Surface Water Protection Map
Figure 3: Site and Sample Location Map

Appendices
Appendix A: Water Well Data
Appendix B: Hall Environmental Analysis Laboratory Reports

FIGURE





Legend

- .5 Mile
- 1000 Feet
- 500 Feet
- OSE Depth to GW
- Point of Release

N

0 470 940 1,880 2,820

Feet

Site Map

Fiddle Fee 23X 1H- Marathon Oil, Permian LLC

UL: H S: 23 T: 24S R: 28E, Eddy County, New Mexico

Figure 1

P:\5-Marathon MSA 2020 (5F28980)\BGS - Fiddle Fee 23X 1H\CAD\Figures\Fiddle Fee.aprx

Date Saved: 6/22/2020

Revisions

By: _____ Date: _____ Descr: _____

By: _____ Date: _____ Descr: _____

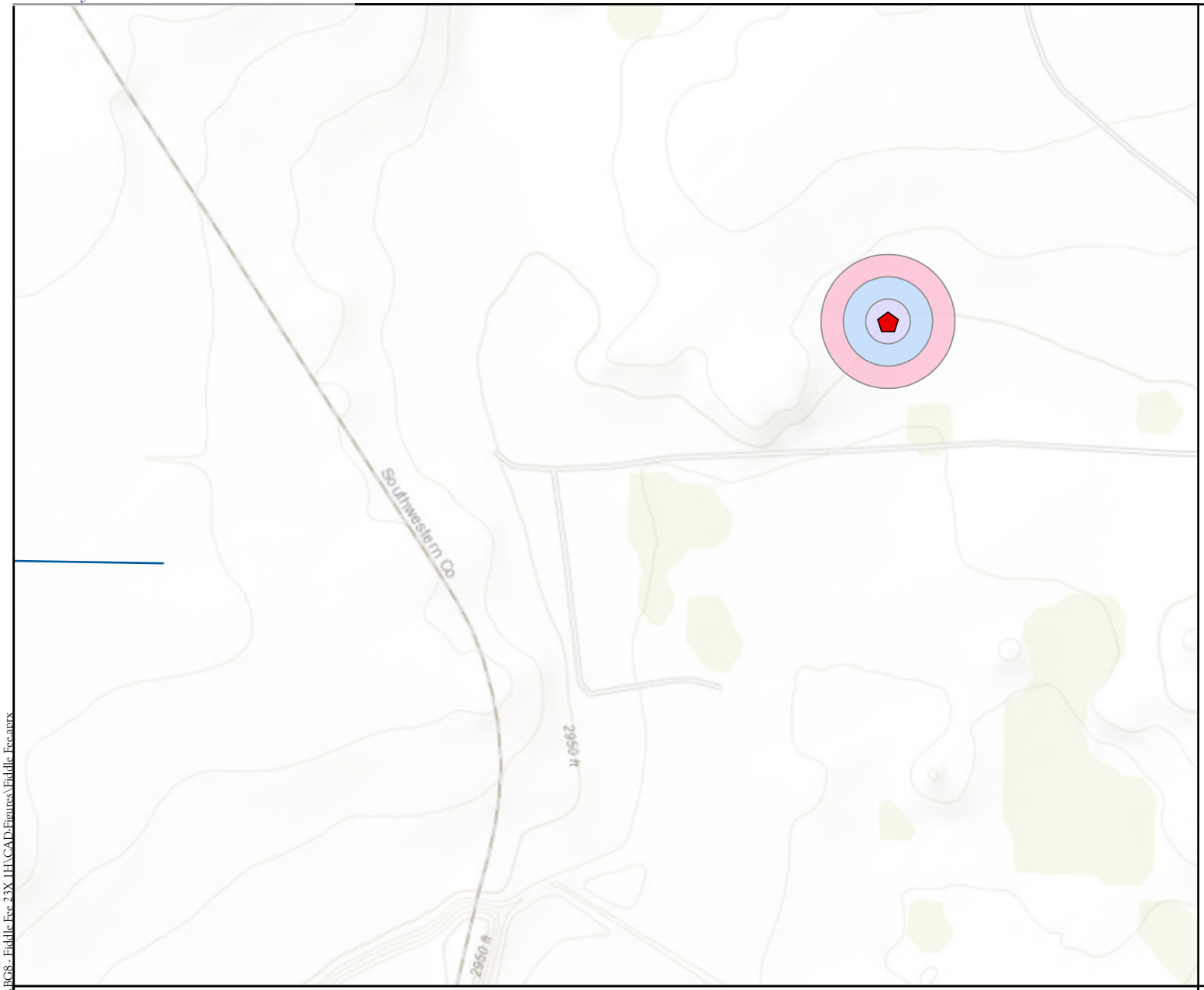
Drawn Lynn A. Acosta

Date 6/22/2020

Checked _____

Approved _____

201 South Halaguena Street
Carlsbad, New Mexico 88221
(575) 689-7040
Serving the Southwest & Rocky Mountains



Buffer Distance
- 300 Feet
- 200 Feet
- 100 Feet
- Springs & Seeps
- Streams & Canals
- Rivers
- NM Wetlands
- Lakes & Playas
- FEMA Flood Zones 2011
- Point of Release

N

0 215 430 860 1,290

Feet

Surface Water Protection Map
Fiddle Fee 23X 1H - Marathon Oil, Permian LLC
UL: H S: 23 T: 24S R: 28E , Eddy County, New Mexico

Figure 2

P:\5-Marathon MSA 2020 (5F28980)\BG8 - Fiddle Fee 23X 1H\CAD Figures\Fiddle Fee.aprx
Date Saved: 6/22/2020

Revisions
By: Date: Descr:
By: Date: Descr:

Drawn Lynn A. Acosta
Date 6/22/2020
Checked
Approved

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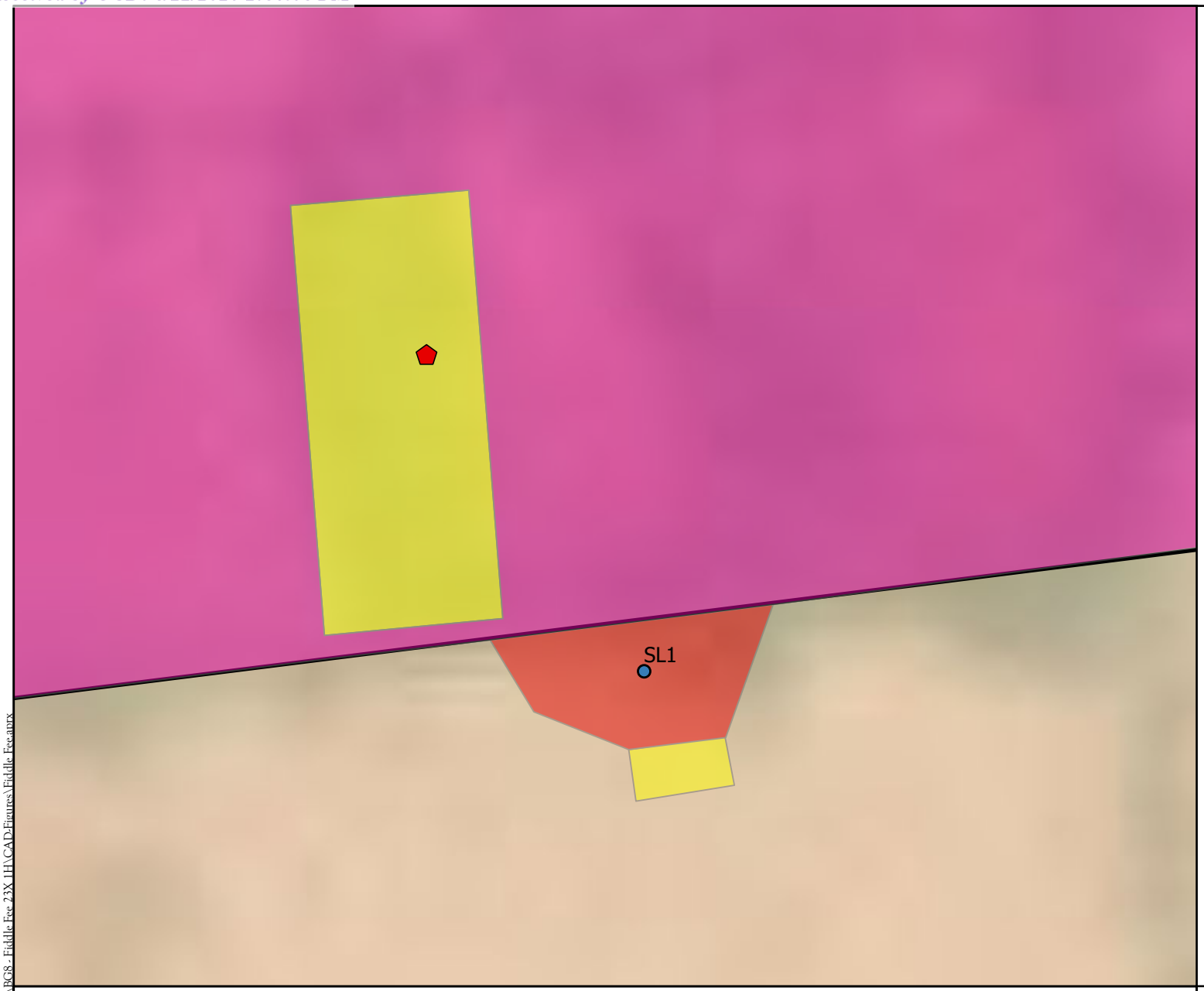

Legend

- Point of Release
- Soil Sample
- Containment Boundary
- Separator/Electical Box
- Liner
- Release Area

N

0 3.25 6.5 13 19.5

Feet

Site and Sample Location Map
Fiddle Fee 23X 1H - Marathon Oil, Permian LLC
UL: H S: 23 T: 24S R: 28E Eddy County, New Mexico

Figure 3

P:\5-Marathon MSA 2020 (5F289800)\BG8 - Fiddle Fee 23X 1H\CAD Figures\Fiddle Fee.mxd
Date Saved: 6/22/2020

Revisions
By: Date: Descr:
By: Date: Descr:

Drawn Lynn A. Acosta
Date 6/22/2020
Checked
Approved

201 South Halaguena Street
Carlsbad, New Mexico 88221
(575) 689-7040
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APPENDIX B
WATER WELL DATA

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	Distance	Depth Well	Depth Water	Water Column
C 02057		C	ED		1	4	14	24S	28E	588956	3564774*	1218	126	52	74
C 00353	C	CUB	ED		3	4	13	24S	28E	590603	3564367*	1240	2726		
C 03833 POD1		C	ED	2	1	2	26	24S	28E	589014	3562545	1283	96	55	41
C 04180 POD1		CUB	ED	2	1	2	26	24S	28E	589055	3562502	1305	160	58	102
C 04263 POD1		CUB	ED	3	1	1	23	24S	28E	588026	3563915	1538	390	370	20
C 04026 POD1		CUB	ED	3	2	1	25	24S	28E	590148	3562290	1540	190	90	100
C 00354	C	CUB	ED		4	4	13	24S	28E	591005	3564367*	1595	2739		

Average Depth to Water: **125 feet**

Minimum Depth: **52 feet**

Maximum Depth: **370 feet**

Record Count: 7

UTMNAD83 Radius Search (in meters):

Easting (X): 589550.78 **Northing (Y):** 3563710.45 **Radius:** 1600

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

APPENDIX A
HALL ENVIRONMENTAL ANALYSIS LABORATORY REPORTS

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

June 18, 2020

Lynn A. Acosta
Souder, Miller & Associates
201 S Halagueno
Carlsbad, NM 88221
TEL:
FAX:

RE: Fiddle Fee 23X 1H OrderNo.: 2006733

Dear Lynn A. Acosta:

Hall Environmental Analysis Laboratory received 1 sample(s) on 6/13/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2006733**
Date Reported: **6/18/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates
Client Sample ID: S1 1 0-.5'
Project: Fiddle Fee 23X 1H
Collection Date: 6/11/2020 2:31:00 PM
Lab ID: 2006733-001 **Matrix:** SOIL **Received Date:** 6/13/2020 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	60		mg/Kg	20	6/15/2020 7:47:43 PM	53081
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **CLP**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/15/2020 4:56:12 PM	53075
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/15/2020 4:56:12 PM	53075
Surr: DNOP	96.4	55.1-146		%Rec	1	6/15/2020 4:56:12 PM	53075
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/15/2020 11:14:37 PM	53074
Surr: BFB	80.5	66.6-105		%Rec	1	6/15/2020 11:14:37 PM	53074
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	6/15/2020 11:14:37 PM	53074
Toluene	ND	0.047		mg/Kg	1	6/15/2020 11:14:37 PM	53074
Ethylbenzene	ND	0.047		mg/Kg	1	6/15/2020 11:14:37 PM	53074
Xylenes, Total	ND	0.094		mg/Kg	1	6/15/2020 11:14:37 PM	53074
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	6/15/2020 11:14:37 PM	53074

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2006733**

18-Jun-20

Client: Souder, Miller & Associates

Project: Fiddle Fee 23X 1H

Sample ID: **MB-53081**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **53081**	RunNo: **69665**
Prep Date: **6/15/2020**	Analysis Date: **6/15/2020**	SeqNo: **2418351** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-53081**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **53081**	RunNo: **69665**
Prep Date: **6/15/2020**	Analysis Date: **6/15/2020**	SeqNo: **2418352** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.4	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2006733**

18-Jun-20

Client: Souder, Miller & Associates

Project: Fiddle Fee 23X 1H

Sample ID: **MB-53072** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **PBS** Batch ID: **53072** RunNo: **69636**

Prep Date: **6/14/2020** Analysis Date: **6/15/2020** SeqNo: **2417253** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	12		10.00		116	55.1	146			

Sample ID: **LCS-53072** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **LCSS** Batch ID: **53072** RunNo: **69636**

Prep Date: **6/14/2020** Analysis Date: **6/15/2020** SeqNo: **2417254** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	6.3		5.000		125	55.1	146			

Sample ID: **MB-53075** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **PBS** Batch ID: **53075** RunNo: **69636**

Prep Date: **6/14/2020** Analysis Date: **6/15/2020** SeqNo: **2417806** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		123	55.1	146			

Sample ID: **LCS-53075** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **LCSS** Batch ID: **53075** RunNo: **69636**

Prep Date: **6/14/2020** Analysis Date: **6/15/2020** SeqNo: **2417807** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	60	10	50.00	0	120	70	130			
Surr: DNOP	5.8		5.000		116	55.1	146			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2006733**

18-Jun-20

Client: Souder, Miller & Associates

Project: Fiddle Fee 23X 1H

Sample ID: **mb-53074** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **PBS** Batch ID: **53074** RunNo: **69658**

Prep Date: **6/14/2020** Analysis Date: **6/15/2020** SeqNo: **2417955** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	850		1000		84.9	66.6	105			

Sample ID: **lcs-53074** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **LCSS** Batch ID: **53074** RunNo: **69658**

Prep Date: **6/14/2020** Analysis Date: **6/15/2020** SeqNo: **2417956** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	86.0	80	120			
Surr: BFB	970		1000		96.6	66.6	105			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2006733**

18-Jun-20

Client: Souder, Miller & Associates

Project: Fiddle Fee 23X 1H

Sample ID: **mb-53074** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **PBS** Batch ID: **53074** RunNo: **69658**

Prep Date: **6/14/2020** Analysis Date: **6/15/2020** SeqNo: **2417988** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		105	80	120			

Sample ID: **LCS-53074** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **LCSS** Batch ID: **53074** RunNo: **69658**

Prep Date: **6/14/2020** Analysis Date: **6/15/2020** SeqNo: **2417989** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.1	80	120			
Toluene	0.94	0.050	1.000	0	93.9	80	120			
Ethylbenzene	0.94	0.050	1.000	0	93.8	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.8	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **SMA-CARLSBAD** Work Order Number: **2006733** RcptNo: 1

Received By: **Isaiah Ortiz** **6/13/2020 9:05:00 AM** I-Ox

Completed By: **Isaiah Ortiz** **6/13/2020 10:06:54 AM** I-Ox

Reviewed By: DF 6/13/2020

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preserved added to bottles? Yes ☐ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☑
10. Were any sample containers received broken? Yes ☐ No ☑

IO 6/13/20

# of preserved bottles checked for pH: ~~6/13/20~~
(<2 or >12 unless noted)
Adjusted?
Checked by:

11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.2	Good	Not Present			

Chain-of-Custody Record

Client: SMA Carlsbad

Mailing Address: on File

Phone #:

email or Fax#: Lynn-acosta@Sodermiller.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☐ Standard ☐ Rush 5 day

Project Name:

Project #:

Project Manager: Lynn Acosta

Sampler: LA

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 1.2-0.1(CF) 1.2 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2006733	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
6/11/20	1431	soil	S1 1 0-.5'	4oz g	ice	-001										

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
					6/11/20	0900
6/11/20	1900			courier	6/13/20	0905

Remarks: Marathon (WBS CI.20.01116.001)

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Project Information

Chain of Custody

Page _____ of _____

Received by OCD: 6/22/2020 2:44:06 PM

Client:	Souder Miller & Associates
Project:	
Project Manager:	Lynn Acosta
Address:	201 S. Halagueno
City, State, Zip	Carlsbad NM
Phone:	(505) 516-7469
Email:	Lynn.acosta@sodermiller.com

Report Attention

Report due by:	5 days
Attention:	
Address:	
City, State, Zip	
Phone:	
Email:	

Lab Use Only

Lab WO#	Job Number
P	

TAT

1D	3D

EPA Program

RCRA	CWA	SDW

State

NM	CO	UT	A
X			

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0		TCEQ 1005	BGDOC - NM	BGDOC - TX			Remarks
231	6/11/20	Soil	1	SL 1 0-0.5'		X	X	X		X							

Additional Instructions:

Direct Bill: Marathon Oil (WBS CL.20.01116.001)

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Lynn A. Acosta

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Lynn A Acosta	6/12/2020				
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only

Received on ice: Y / N

T1 _____ T2 _____ T3 _____

AVG Temp °C _____

Sample Matrix: **S** - Soil, **Sd** - Solid, **Sg** - Sludge, **A** - Aqueous, **O** - Other S

Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech Analytical Laboratory

5795 US Highway 64, Farmington, NM 87401

24 Hour Emergency Response Phone (800) 362-1879

Ph (505) 632-1881 Fx (505) 632-1865

envirotech-inc.com

labadmin@envirotech-inc.com

Liner Integrity Inspection (Photos Attached) NRM2014856222

Date: 6/11/2020

Facility: Fiddle Fee 23 x 1 H

48 Hour Notification Given On: 6/8/2020 to NM OCD District II via email

Responsible party has visually inspected the liner (Y)/N

Liner remains intact (Y)/N

Liner had the ability to contain the leak in question: (Y)/N

Notes:

- powerwashed 6/10
- no failures in containment or liner
- overspray area sampled.

Company Representative(s)

Melodie Sanjari

M Sanjari

Fiddle Fee 23X 1H Liner Integrity Inspection Photo Log
NRM2014856222

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