Page 6

Oil Conservation Division

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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.

<u>Closure Report Attachment Checklist</u>: 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:	Environ	mental Professional
•	M. Sanjari	Date:		_7/24/202	3
email:r	nsanjari@marathonoil.com		Telephone:	575-988	3-8352
OCD Only					
Received by:	Jocelyn Harimon			Date:(07/24/2023
Closure appro	val by the OCD does not relieve the	responsible	party of liabil	ity should	their operations have failed to adequately investigate and
	tamination that poses a threat to grou liance with any other federal, state,				th, or the environment nor does not relieve the responsible
			-		
Closure Appro	oved by:			_ Date: _	07/31/2023
Printed Name	Jocelyn Harimon			Title: _	Environmental Specialist



CLOSURE REQUEST REPORT ADDENDUM

Site Location:

Shugart West 19 Fed #8 & #9 Eddy County, New Mexico Incident Numbers nAB1527326452 & NAB1601157221 June 21, 2023 Ensolum Project No. 03A2040004

Prepared for:

Marathon Oil Permian, LLC 4111 South Tidwell Road Carlsbad, New Mexico 88220 Attention: Melodie Sanjari

Prepared by:

Ashley N. Giovengo Senior Engineer

Daniel R. Moir, PG Senior Managing Geologist

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Parks Highway | Carlsbad, NM 88220 | ensolum.com

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1.0	INTRODUCTION	1
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2.0	SITE CHARACTERIZATION	1
3.0	DELINEATION ACTIVITIES	2
4.0	CLOSURE REQUEST	2

REFERENCE MATERIALS

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Figure 1: Site Receptor Map
Figure 2: Site & Sampling Locations
Figure 3: Delineation Soil Sample Locations

TABLES

Table 1: Delineation Soil Sample Analytical Results

APPENDICES

Appendix A: C-141 Forms

Appendix B: Lithologic Soil Sampling Logs

Appendix C: Photographic Log

Appendix D: Laboratory Analytical Reports & Chain-of-Custody Documentation



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June 21, 2023

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1.0 INTRODUCTION

Ensolum, LLC (Ensolum) has prepared this *Closure Request Report* Addendum (CRRA) on behalf of Marathon Oil Permian, LLC, hereafter referred to as Marathon, regarding the crude oil and produced water releases at the Shugart West 19 Fed #8 & #9 (Site), located in Unit B, Section 19, Township 18 South, Range 31 East, in Eddy County, New Mexico (**Figure 1**). Global Positioning System (GPS) coordinates for the Site are as follows: North 32.734617 and West -103.907571. Surface owner of the Site is Federal Land managed by the Bureau of Land Management (BLM).

On October 24, 2019, A *Closure Request* (CR), authored by Souder, Miller & Associates (SMA), was submitted to the New Mexico Oil Conservation Division (NMOCD) for the releases associated with Incident Numbers nAB1527326452 & nAB1601157221; however, the request was denied. The original CR was submitted prior to the release of NMOCD's *Procedures for Implementation of the Spill Rule*, dated September 6, 2019, and as a result, it was determined lateral and vertical delineation to the strictest closure criteria per NMOCD Table I Closure Criteria would be required. This CRRA addresses additional delineation sampling to the strictest Closure Criteria associated with the crude oil and produced water releases (nAB1527326452 & nAB1601157221). Based on laboratory analytical results, Marathon respectfully requests no further action (NFA) for Incident Numbers nAB1527326452 & nAB1601157221. The original CR and other supporting documents can be viewed on the NMOCD web portal.

1.1 Background

On September 29, 2015, a release was discovered at Site due to internal corrosion of a 2x4 swage on an oil circulating line, approximately 40 barrels (bbls) of produced water was released inside the earthen containment. A total of 35 bbls was recovered during the initial response activities. The incident was reported to NMOCD by the previous operator Merit Energy Company (Merit) and assigned Incident Number nAB1527326452.

On January 11, 2016, a leaking tank bottom resulted in the release of 10 bbls of produced water and 6 bbls of crude oil at the Shugart West 19 Federal #9 Site. A total of 2 bbls of produced water and 1 bbl of crude oil was recovered from the earthen containment. The release was reported to the NMOCD and assigned Incident Number nAB1601157221.

2.0 SITE CHARACTERIZATION

The Site was assessed for applicability of Table I, Closure Criteria for Soils Impacted by a Release, from Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC) during the original CR. Results from the characterization desktop review were presented in the October 2019 CR and are presented on page 3 of Form C-141 (**Appendix A**), Site Assessment/Characterization. Potential Site receptors are identified on **Figure 1**.

Based on the desktop review of nearby receptors and depth to groundwater determination at the Site, the following NMOCD Table I Closure Criteria (Closure Criteria) was applied:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total Petroleum Hydrocarbon (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- Total Petroleum Hydrocarbon (TPH): 2500 mg/kg



June 21, 2023

• Chloride: 20,000 mg/kg

3.0 DELINEATION ACTIVITIES

Beginning on May 17, 2023, Ensolum personnel arrived onsite to perform delineation soil sampling in the vicinity of sample locations CS3 and CS4 and SW4 through SW9, see **Figure 2**. Ensolum personnel collected 10 surface soil samples (SS01 through 10) to determine the lateral extent of the spill area's in accordance with the strictest Closure Criteria.

In order to determine the vertical extent of the releases, a pothole was advanced as the surface soil sample location SS09 via hand auger to a depth of 2 feet below ground surface (bgs).

Delineation soil samples were field screened for TPH using a PetroFLAG® analyzer system and for chloride utilizing the Mohr method titration. Field screening results and observations from the pothole were recorded on lithologic/soil sampling logs (**Appendix B**) and photographic documentation is included in **Appendix C**.

Delineation soil samples were properly packaged, preserved, and transported to Hall Environmental Analysis Laboratory, following proper chain-of-custody procedures and were analyzed for the following constituents of concern (COCs): TPH following United States Environmental Protection Agency (EPA) Method 8015D, BTEX following EPA Method 8021B, and chloride following EPA Method 300.0.

Laboratory analytical results indicated COC concentrations for all delineation samples associated with Incident Numbers nAB1527326452 & nAB1601157221 were in compliance with the strictest Closure Criteria per NMOCD Table I except for SS03B, which was recollected. Surface sample SS03B exceeded the strictest Closure Criteria; however, it is located in the area nearest the production tanks. Ensolum personnel returned to the Site on June 2, 2023 to recollect a lateral sample in the vicinity of SS03B. Sample SS03C was below the strictest Closure Criteria and void of elevated surface contamination associated with ongoing operations near the production tanks. Delineation soil sample locations are identified on **Figures 3**, laboratory analytical results are presented in **Table 1** and laboratory analytical reports are included in **Appendix D**.



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June 21, 2023

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4.0 CLOSURE REQUEST

On behalf of Marathon, Ensolum herby requests closure for the releases associated with Incident Numbers nAB1527326452 & nAB1601157221 based on the findings and conclusion listed below:

- Horizontal and vertical delineation sampling in the vicinity of soil sample locations CS3 and CS4 and SW4 through SW9 has been completed in accordance with the strictest Closure Criteria per NMOCD Table 1; and
- The lateral and vertical extents of the release have been adequately assessed as required in NMOCD's denial.

Remedial actions completed at the Site for Incident Numbers nAB1527326452 & nAB1601157221 have been protective of human health, the environment, and groundwater.





FIGURES

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TABLES

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E N S O L U M

TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Shugart West 19 Federal #8 and #9 Marathon Oil Permian LLC Eddy County, New Mexico										
Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 C	osure Criteria (NMAC	C 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Delineatio	on Soil Samples	1				
SS01B	05/17/2023	0	<0.025	<0.10	<5.0	<8.4	<42	<8.9	<42	<60
SS02A	05/17/2023	0	<0.025	<0.10	<4.9	<9.3	<47	<9.3	<47	<60
SS03B	05/17/2023	0	<0.025	<0.10	<5.0	24	<49	24	24	2,200
SS03C	06/02/2023	0	<0.025	<0.10	<4.9	<9.9	<50	<10	<50	<59
SS04A	05/17/2023	0	<0.025	<0.10	<4.9	<9.7	<48	<9.7	<48	320
SS05	05/17/2023	0	<0.024	<0.10	<4.9	18	57	18	75	<60
SS06D	05/17/2023	0	<0.024	<0.10	<4.8	<10	<50	<10	<50	<60
SS07B	05/17/2023	0	<0.024	<0.10	<4.8	11	<49	11	11	180
SS08C	05/17/2023	0	<0.024	<0.10	<4.9	9.8	<47	9.8	9.8	<60
SS09	05/17/2023	0	<0.024	<0.10	<4.8	19	<48	19	19	84
SS09	05/17/2023	0.5	<0.024	<0.09	<4.7	18	<49	18	18	95
SS09	05/17/2023	1	<0.023	<0.09	<4.7	16	<50	16	16	<60
SS09	05/17/2023	2	<0.025	<0.10	<4.9	12	<44	12	<12	<60
SS10	05/17/2023	0	<0.024	<0.10	<4.9	<9.7	<48	<9.7	<48	<60

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

"<": Laboratory analytical results less than reportable limit

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

.



APPENDIX A

C-141 Forms

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811 S. First St., Artesia, NM 88210								evised August 8, 2011			
1000 Rio Brazos Road. Aztec. NM 87410						vation Div St. Franc		REC		to appropria cordance wit	th 19.15.29 NMAC.
<u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505						, NM 875		••••			
			Rele	ase Notific				ction	1		
NABIS	2732	6452				OPERAT	OR	;	x Initia	l Report	Final Report
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Address PO Facility Nar		<u>Eunice, N.M.</u> 1 19#8	M. 88231	·			No. 575-420-550 e Oil & Gas Pro		n battery		
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Surface Ow				Mineral C					API NO	. 30015309	2300
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	· ·		<u> </u>								
		Latitude_	32D44'04	4.14"N		Longitude	103D54'26.82"	'W			
				NAT	URE	OF RELI					
Type of Rele			19#8 tank	c battery, 2x4 swa	ige on		Release 40 lour of Occurrence	e		ecovered 3 Hour of Disc	5 covery 8:01 a.m.
back of tank						9-29-2015			9-29-2015		
Was Immedi	ate Notice (ר Yes	No 🗌 Not		If YES, To BLM and 0					
Required						Mike Bratcher - OCD & James Amos -BLM					
By Whom?							Date and Hour 9-29-15 8:23 A.M BLM./ 8:08 a.m. A.M. OCD If YES, Volume Impacting the Watercourse.				
Was a Water	course Kea		Yes x	No		NA	sume impacting	the wat	ercourse.		
If a Watercou	urse was Im	pacted, Descr	ibe Fully.*	k							
NO											
Describe Cau	se of Probl	em and Reme	dial Action	n Taken.*							
				ine on back of oil	tank. Re	emoved and r	eplaced all old or	bad fitt	ings on line	•	
Describe Are	a Affected	and Cleanup	Action Tal	zen *							
Area around	tanks insid	e firewall, leal	c was disco	overed around 8:(lent on j	previous da	y. All fluid v	vas contained inside
firewall, vaci	umed and	hauled off all	standing f	luid .Well follow	up with	further clean	up.				
				e is true and comp							
regulations a	Il operators	are required t	o report an	nd/or file certain r ce of a C-141 rep	elease n	otifications a	nd perform correct parked as "Final F	ctive act	tions for release	eases which	may endanger
should their	operations 1	have failed to	adequately	investigate and i	emediat	e contaminati	ion that pose a thi	reat to g	round wate	, surface wa	ter, human health
		addition, NM(.ws and/or reg		ptance of a C-141	report d	oes not reliev	e the operator of	respons	sibility for c	ompliance w	vith any other
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Signature: C	hris Flores								4.	I KANTULEN	
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Title: field fo	oreman					Approval Da	te: 4/30/1	5	Expiration	Date: N/	4
E-mail Addr	ess: chris.fl	ores@meriten	ergy.com			Conditions o	f Approval:	-			
		'hone: 575-420				emediation BMIT R	on per O.C.D. EMEDIATION	Rules	s & Guide POSAL N	IInesached O	
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III C-141		Incident ID	nAB1527326452
2	Oil Conservation Division	District RP	2RP-3304
		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 par Volume exceeded 25 bbls.	ty consider this a major release.	
	otice given to the OCD? By whom? To whom? When to NMOCD on 05/02/2023 via website.	en 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

 \square 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: Isaac Castro	Title: Environmental Professional
Signature: Isaac Castro	Date: <u>10/24/2019</u>
email: <u>icastro@marathonoil.com</u>	Telephone: <u>575-988-0561</u>
OCD Only	
Received by:	_ Date:

Received by OCD: 7/24/2023 6:30:56 AM Form C-141 State of New Mexico

Page 3

Oil Conservation Division

	Page 16 of	88
Incident ID	nAB1527326452	
District RP	2RP-3304	
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?	<u>_288</u> (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
- \square Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-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.

Received by OCD:	7/24/2023 6:30:56 AM State of New Mexico	•		Page 17 of 8			
				Incident ID	nAB1527326452		
Page 4	Oil Conservation Divis	sion		District RP	2RP-3304		
				Facility ID			
				Application ID			
regulations all ope public health or the failed to adequated addition, OCD accurate and/or regulations. Printed Name: Signature:	Isaac Castro	se notifica y the OCD a threat to ator of resp _ Title: _ Date:	tions and perform co does not relieve the o groundwater, surface consibility for compli	rrective actions for relea operator of liability sho be water, human health ance with any other fed and Professional	ases which may endanger buld their operations have or the environment. In		
OCD Only							
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Page 6

Oil Conservation Division

Incident ID	nAB1527326452
District RP	2RP-3304
Facility ID	
Application ID	

Page 18 of 88

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: Isaac Castro Title: Environmental Professional Signature: Asaac Castro Date: 10/24/19 email: _____icastro@marathonoil.com _____ Telephone: __575-988-0561 **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:

25 N. French Dr., Hobbs, NM 88240 istrict II Energy I S. First St., Artesia, NM 88210						New Mex and Natura	l Resources	JAN 11		Form C-14 Revised August 8, 201
District III Oil C 000 Rio Brazos Road, Aztec, NM 87410 District IV 1220				Conser	vation Div	vision	. Submit I	ropriate District Office i ce with 19.15.29 NMAC		
					St. France, NM 875		RECEIV			
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Scheduled to			5 reasonaoi	y possible.						
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										NMOCD rules and which may endanger
ublic health	or the envi	ronment. The	e acceptano	c of a C-141 re	port by th	e NMOCD n	narked as "Final	Report" does n	ot relieve th	e operator of liability
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ederal, state	, or local la	ws and/or reg	ulations.		-					
								NSERVAT		<u>151011</u>
Signature: C	hris Flores					Approved by	Signed B Environmentar	K Balle	Eresque	5 ^{to}
	e: Chris Flo	ores						[
Printed Nam						Approval Da	te: 111111	Expir	ration Date:	N/A
Printed Nam Fitle: Field F	Foreman					a 12	6 A = = = = = =] -			
Fitle: Field F		ores@meriten	ergy.com			Conditions of				
Fitle: Field F	ess:chris.flo 2016	ores@meriten	ergy.com			Remedia	tion per O.C. REMEDIATIC			gehed 🗌

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<i>ceived by OCD: 7/24/202</i> rm C-141	3 6:30:56 AM State of New Mexico		Page 20
	$O'_{1}O_{2}$	Incident ID	nAB1601157221
e 2	Oil Conservation Division	District RP	2RP-3487
		Facility ID	
		Application ID	
Was this a major release as defined by 19.15.29.7(A) NMAC? Xes No	If YES, for what reason(s) does the responsible par Volume exceeded 25 bbls.	ty consider this a major release	?
	otice given to the OCD? By whom? To whom? When to NMOCD on 05/02/2023 via website.	nen 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

 \square 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: Isaac Castro	Title: Environmental Professional
Signature: Isaac Castro	Date: <u>10/24/2019</u>
email: <u>icastro@marathonoil.com</u>	Telephone: <u>575-988-0561</u>
OCD Only	
Received by:	_ Date:

Received by OCD: 7/24/2023 6:30:56 AM Form C-141 State of New Mexico

Page 3

Oil Conservation Division

	Page 21 of	88
Incident ID	nAB1601157221	
District RP	2RP-3487	
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?	<u>288</u> (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
- \square Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- \boxtimes 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.

eceived by OCD: 7/24/20	23 6:30:56 AM State of New Mexi	<u>co</u>			Page 22 o
				Incident ID	nAB1601157221
ge 4	Oil Conservation Div	1S10n		District RP	2RP-3487
				Facility ID	
				Application ID	
public health or the environment failed to adequately investig addition, OCD acceptance of and/or regulations.		by the OCI ose a threat t erator of resp Title: Date:	D does not relieve the construction of the con	e operator of liability sh ace water, human health liance with any other fe Il Professional	ould their operations have or the environment. In
OCD Only Received by:			Date:		

Page 6

Oil Conservation Division

Incident ID	nAB1601157221
District RP	2RP-3487
Facility ID	
Application ID	

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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: _____ Isaac Castro _____ Title: ___ Environmental Professional _____ Signature: Asaac Castro Date: 10/24/19 email: _____icastro@marathonoil.com _____ Telephone: __575-988-0561 **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:

•

								Sample Name: SS09	Date: 5/17/2023
	-	F	Ν	S	O L		Μ	Site Name: Shugart West 19	
L								Incident Numbers: NAB152	7326452 / NAB1601157221
		1171201	001			100		Job Number: 03A2040004	
0.00	dinatas: 2				SAMPLING	LUG		Logged By: ANG Hole Diameter: 3"	Method: Hand Auger Total Depth: 2'
	ments:	2.73457,	-103.9	90743				Hole Diameter: 3	Total Depth. 2
.01111	nents.								
Moisture	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs) 0	USCS/Rock Symbol	Lithologi	ic Descriptions
D		0.1	N	SS09			SM	(0.5-1'), SILTY SAND, dr no staining and no odc	ry, red, fine, or.
D		0.2	N	SS09	2	2	SM TD	(1-2'), SILTY SAND, dry no staining and no odc Total depth at 2' bgs.	, red, fine, or



APPENDIX C

Photographic Log

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APPENDIX D

Laboratory Analytical Reports & Chain-of-Custody Documentation



May 30, 2023

Ashley Giovengo Marathon Oil Company 4111 Tidwell Road Carlsbad, NM 88220 TEL: (575) 297-0956 FAX:

RE: Shugart West 19 Federal CTB H

OrderNo.: 2305A93

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Ashley Giovengo:

Hall Environmental Analysis Laboratory received 1 sample(s) on 5/20/2023 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 2305A93

Date Reported: 5/30/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Marathon Oil Company Client Sample ID: SS09-0.5' **Project:** Shugart West 19 Federal CTB H Collection Date: 5/17/2023 10:25:00 AM Lab ID: 2305A93-001 Matrix: SOIL Received Date: 5/20/2023 9:30:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: PRD **Diesel Range Organics (DRO)** 18 9.9 mg/Kg 1 5/23/2023 9:51:03 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 5/23/2023 9:51:03 PM Surr: DNOP 106 69-147 %Rec 1 5/23/2023 9:51:03 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 5/25/2023 6:01:00 AM 4.7 mg/Kg 1 Surr: BFB 85.1 15-244 %Rec 1 5/25/2023 6:01:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 5/25/2023 6:01:00 AM 0.024 mg/Kg 1 Toluene ND 0.047 mg/Kg 1 5/25/2023 6:01:00 AM Ethylbenzene ND 0.047 mg/Kg 1 5/25/2023 6:01:00 AM Xylenes, Total ND 0.094 mg/Kg 1 5/25/2023 6:01:00 AM Surr: 4-Bromofluorobenzene 81.3 39.1-146 %Rec 1 5/25/2023 6:01:00 AM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride mg/Kg 95 60 20 5/25/2023 1:07:27 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level Sample Diluted Due to Matrix

- D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 5

Client:

Marathon Oil Company

Project:	Shug	gart West 19 Fe	deral C	ТВ Н							
Sample ID:	MB-75165	SampT	уре: МВ	BLK	Tes	tCode: EF	PA Method	300.0: Anions	5		
Client ID:	PBS	Batch ID: 75165 RunNo: 97007									
Prep Date:	5/24/2023	Analysis D	Date: 5/2	24/2023	5	SeqNo: 3	520086	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID:	LCS-75165	SampT	ype: LC	S	Tes	tCode: EF	PA Method	300.0: Anions	5		
Client ID:	LCSS	Batch	n ID: 751	65	F	RunNo: 9 7	7007				
Prep Date:	5/24/2023	Analysis D	Date: 5/2	24/2023	Ś	SeqNo: 3	520088	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	94.2	90	110			

- Value exceeds Maximum Contaminant Level. *
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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30-May-23

WO#:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

	n Oil Com West 19 Fe		ТВ Н							
Sample ID: LCS-75110	D: LCS-75110 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: LCSS	Batcl	h ID: 75 1	110	F	RunNo: 9	6945				
Prep Date: 5/22/2023	Analysis [Date: 5/2	23/2023	5	SeqNo: 3	518232	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	98.8	61.9	130			
Surr: DNOP	5.0		5.000		101	69	147			
Sample ID: MB-75110		Гуре: МЕ		Tes	tCode: El	PA Method	8015M/D: Die	esel Range	Organics	
Sample ID: MB-75110 Client ID: PBS	Samp	Гуре: МЕ h ID: 75 1	BLK		tCode: El		8015M/D: Die	esel Range	Organics	
	Samp	h ID: 75 1	BLK 110	F		6945	8015M/D: Die Units: mg/F	_	Organics	
Client ID: PBS	Samp7 Batcl	h ID: 75 1	BLK 110 23/2023	F	RunNo: 9	6945		_	Organics RPDLimit	Qual
Client ID: PBS Prep Date: 5/22/2023	SampT Batcl Analysis [h ID: 75 1 Date: 5/ 2	BLK 110 23/2023	F	RunNo: 9 SeqNo: 3	6945 518236	Units: mg/k	ζg	-	Qual
Client ID: PBS Prep Date: 5/22/2023 Analyte	Samp] Batcl Analysis [Result	h ID: 75 1 Date: 5/2 PQL	BLK 110 23/2023	F	RunNo: 9 SeqNo: 3	6945 518236	Units: mg/k	ζg	-	Qual
Client ID: PBS Prep Date: 5/22/2023 Analyte Diesel Range Organics (DRO)	SampT Batcl Analysis I Result ND	h ID: 75 1 Date: 5/ 2 PQL 10	BLK 110 23/2023	F	RunNo: 9 SeqNo: 3	6945 518236	Units: mg/k	ζg	-	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В

- Р
- RL

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WO#:

Е Above Quantitation Range/Estimated Value

- J Analyte detected below quantitation limits
 - Sample pH Not In Range
 - Reporting Limit

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

	on Oil Comp West 19 Fee	2	ТВ Н							
Sample ID: mb-75105	SampT	ype: ME	BLK	TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch	ID: 751	105	F	RunNo: 96	6984				
Prep Date: 5/22/2023	Analysis D	ate: 5/ 2	24/2023	S	SeqNo: 35	519769	Units: mg/K	g		
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		84.6	15	244			
Sample ID: Ics-75105	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015D: Gaso	line Range		
Client ID: LCSS	Batch	ID: 751	105	F	RunNo: 96	6984				
Prep Date: 5/22/2023	Analysis D	ate: 5/ 2	24/2023	S	SeqNo: 35	519770	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	88.6	70	130			
Surr: BFB	1900		1000		191	15	244			

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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30-May-23

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	arathon Oil Com ugart West 19 F		ТВ Н							
Sample ID: mb-75105	Samp	Туре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: PBS	Bato	ch ID: 751	105	F	RunNo: 96	6984				
Prep Date: 5/22/2023	Analysis	Date: 5/2	24/2023	Ş	SeqNo: 35	519793	Units: mg/K	g		
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-Bromofluorobenzer	ne 0.84		1.000		84.2	39.1	146			
Sample ID: Ics-75105	Samp	Туре: LC	S	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: LCSS	Bato	ch ID: 751	105	F	RunNo: 96	6984				
Prep Date: 5/22/2023	Analysis	Date: 5/2	24/2023	5	SeqNo: 35	519794	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	84.9	70	130			
Toluene	0.84	0.050	1.000	0	84.5	70	130			
Ethylbenzene	0.83	0.050	1.000	0	82.5	70	130			
Xylenes, Total	2.5	0.10	3.000	0	82.2	70	130			
Surr: 4-Bromofluorobenzer	ne 0.86		1.000		86.2	39.1	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
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- P Sample pH Not In Range
- RL Reporting Limit

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30-May-23

WO#:

HALL ENVIRO ANALYS LABORA		TEL: 505-345-	ental Analysis Labo 4901 Hawki Albuquerque, NM 3975 FAX: 505-343 w.hallenvironmenta	ins NE 87109 Sam 5-4107	ple Log-In Che	eck List
Client Name: N	larathon Oil Company	Work Order Nur	nber: 2305A93		RcptNo: 1	
Received By:	Tracy Casarrubias	5/20/2023 9:30:00	AM			
Completed By:	Tracy Casarrubias	5/20/2023 10:50:0	9 AM			
Reviewed By:	ms/22/23					
Chain of Custo	dy				_	
1. Is Chain of Cus	tody complete?		Yes 📙	No 🗹	Not Present	
2. How was the sa	mple delivered?		<u>Courier</u>			
Log In 3. Was an attempt	made to cool the samples	?	Yes 🔽	No 🗌	NA 🗋	
4. Were all sample	s received at a temperatur	re of >0° C to 6.0°C	Yes 🔽	No 🗌	NA 🗌	
5. Sample(s) in pro	oper container(s)?		Yes 🗹	No 🗌		
6. Sufficient sampl	e volume for indicated test	(s)?	Yes 🔽	No 🗌		
	cept VOA and ONG) prope		Yes 🗹	No 🗌		
8. Was preservativ	e added to bottles?		Yes	No 🔽	NA 🗌	
9. Received at leas	st 1 vial with headspace <1	/4" for AQ VOA?	Yes 🗌	No 🗌	NA 🗹	
10. Were any samp	le containers received bro	ken?	Yes	No 🔽	# of preserved	/
	match bottle labels? cies on chain of custody)		Yes 🗹	No 🗌	bottles checked for pH: (<2 or >12	unless noted)
	rectly identified on Chain of	of Custody?	Yes 🗹	No 🗌	Adjusted?	
13. Is it clear what a	nalyses were requested?		Yes 🗹	No 🗌		e 1. 1.2
-	times able to be met? tomer for authorization.)		Yes 🗹	No 🗌	Checked by: TM	e 3/10/12)
Special Handlin	<u>g (if applicable)</u>					
	ied of all discrepancies wit	h this order?	Yes 🗌	No 🗌	NA 🔽	
Person N	otified:	Dat	e:			
By Whom	:	Via:	eMail	Phone 🗌 Fax	In Person	
Regarding	· · · · · · · · · · · · · · · · · · ·					
	tructions: Mailing address	s is missing on COC- 1	MC 5/20/23			
16. Additional rem						
	not relinquish chain of cus	RODY				
17. <u>Cooler Inform</u> Cooler No		Seal Intact Seal No	Seal Date	Signed By		
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Melodie Sanjari Anelodie Sanjari Mailing Address: On File Bhugart V Shugart V Phone #: 575-988-8753 Project # Phone #: 575-988-8753 Project # Phone #: 575-988-8753 Project W OA/QC Package:	Project Name. Shugart West 19 Federal CTB H Shugart West 19 Federal 8/Shugart West 19 Federal 9 Project #: 03A2040004 MO Cost Center: 0029588000	www.hallenvironmental.com
.: On File -988-8753 -988-8753 	art West 19 Federal 8/Shugart West 19 Federal 9 tt #: 03A2040004 ost Center: <u>0</u> 29588000 (20)	
-988-8753 <u>msaniari@marathonoil.com</u>	:t #: 03A2040004 ost Center: め29588000 (20)	<pre></pre>
-988-8753 msaniari@marathonoil.com	% 29588000	Tel. 505-345-3975 Fax 505-345-4107
msanjari@marathonoil.com		Analysis kequest
	Project Manager: Ashley Giovengo	SI SI SI
	575-988-0055	POc SIW
□ Az Compliance □ Other	<u>agiovengo@ensolum.com</u>	032 F
Other	er: Ashley Giove	1 / C 608\ 7.4C 8 10 2 10 2 10 2 10 2 10 2 10 2 10 2 10 2
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Time Matrix Sample Name and #	Container Type Preservative HEAL No. and # 7305A93	4 TEX 8081 P 8081 P PPHs I RCRA 61.F, 8260 (8270 (70tal 0
U.	1 iar Ice 001	X X
Time: Relinquished by:	Received by: Via: Date Time	Remarks: Please cc msanjari@maratrionoli.com,
05/19/2023	61/11/0 ann	agioverigo@erisolum.com on results
Time: Relinquished by: Recei	Received by: ViaCounter Date Time	
Sharra han anni an	5/20/33	

If necessary, samples submitted to Hall Environmental maybe subcontracted to other acci



May 30, 2023

Ashley Giovengo Marathon Oil Company 4111 Tidwell Road Carlsbad, NM 88220 TEL: (575) 297-0956 FAX:

RE: Shugart West 19 Federal CTB H

OrderNo.: 2305A94

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Ashley Giovengo:

Hall Environmental Analysis Laboratory received 1 sample(s) on 5/20/2023 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109
Date Reported: 5/30/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Marathon Oil Company Client Sample ID: SS09-1.0' **Project:** Shugart West 19 Federal CTB H Collection Date: 5/17/2023 3:24:00 PM Lab ID: 2305A94-001 Matrix: SOIL Received Date: 5/20/2023 9:30:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: PRD **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO)** 16 9.9 mg/Kg 1 5/23/2023 10:02:01 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 5/23/2023 10:02:01 PM Surr: DNOP 69-147 %Rec 1 5/23/2023 10:02:01 PM 113 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 5/25/2023 6:22:00 AM 4.7 mg/Kg 1 Surr: BFB 85.4 15-244 %Rec 1 5/25/2023 6:22:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 5/25/2023 6:22:00 AM 0.023 mg/Kg 1 Toluene ND 0.047 mg/Kg 1 5/25/2023 6:22:00 AM Ethylbenzene ND 0.047 mg/Kg 1 5/25/2023 6:22:00 AM Xylenes, Total ND 0.093 mg/Kg 5/25/2023 6:22:00 AM 1 Surr: 4-Bromofluorobenzene 84.4 39.1-146 %Rec 1 5/25/2023 6:22:00 AM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride mg/Kg ND 60 20 5/25/2023 1:44:28 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level
 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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 5

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Client: Project:		athon Oil Company gart West 19 Federal CTB H				
-	MB-75165	SampType: MBLK	TestCode: EPA Method	300.0: Anions		
Client ID:	PBS	Batch ID: 75165	RunNo: 97007			
Prep Date:	5/24/2023	Analysis Date: 5/24/2023	SeqNo: 3520086	Units: mg/Kg		
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit	Qual
Chloride		ND 1.5				
Sample ID:	LCS-75165	SampType: LCS	TestCode: EPA Method	300.0: Anions		
Client ID:	LCSS	Batch ID: 75165	RunNo: 97007			
Prep Date:	5/24/2023	Analysis Date: 5/24/2023	SeqNo: 3520088	Units: mg/Kg		
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit	Qual

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110

Qualifiers:

- Value exceeds Maximum Contaminant Level. *
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 2 of 5

2305A94

30-May-23

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

	on Oil Comp t West 19 Fe		ТВ Н							
Sample ID: LCS-75110	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	Organics	
Client ID: LCSS	Batch	n ID: 75 1	110	F	RunNo: 9	6945				
Prep Date: 5/22/2023	Analysis D	ate: 5/2	23/2023	5	SeqNo: 3	518232	Units: mg/#	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	98.8	61.9	130			
Surr: DNOP	5.0		5.000		101	69	147			
Sample ID: MB-75110	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	Organics	
Client ID: PBS	Batch	n ID: 75 1	110	F	RunNo: 9	6945				
Prep Date: 5/22/2023	Analysis D	ate: 5/2	23/2023	5	SeqNo: 3	518236	Units: mg/#	٤g		
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	8.1		10.00		80.8	69	147			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 3 of 5

2305A94

30-May-23

Client:

Qualifiers:

* D

Н

ND

S

Value exceeds Maximum Contaminant Level.

Holding times for preparation or analysis exceeded

Sample Diluted Due to Matrix

PQL Practical Quanitative Limit

Not Detected at the Reporting Limit

Marathon Oil Company

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% Recovery outside of standard limits. If undiluted results may be estimated.

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J Analyte detected below quantitation limits

Sample pH Not In Range

Reporting Limit RL

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F	Above	Quantitation	Range/Estimated	l Value

в	Analyte detected in the a
F	Above Quantitation Ran

- associated Method Blank
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 - Range/Es

 - Р

WO#:	2305A94
	30-May-23

Page 4 of 5

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West 19 Fe	deral C	ТВ Н							
SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Range	9	
Batch	n ID: 75 1	105	F	RunNo: 90	6984				
Analysis D	Date: 5/2	24/2023	5	SeqNo: 3	519769	Units: mg/K	g		
Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
ND	5.0								
850		1000		84.6	15	244			
SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015D: Gaso	line Range	•	
Batch	ו ID: 751	105	F	RunNo: 9	6984				
Analysis D)ate: 5/2	24/2023	Ş	SeqNo: 3	519770	Units: mg/K	(g		
Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
22	5.0	25.00	0	88.6	70	130			
1900		1000		191	15	244			
	SampT Batch Analysis D Result ND 850 SampT Batch Analysis D Result 22	SampType: ME Batch ID: 754 Analysis Date: 5/2 Result PQL ND 5.0 850 SampType: LC Batch ID: 754 Analysis Date: 5/2 Result PQL 22 5.0	Result PQL SPK value ND 5.0 1000 850 1000 5.0 1000 SampType: LCS 1000 1000 SampType: LCS 1000 1000 Analysis Date: 5/24/2023 1000 Result PQL SPK value 1000 22 5.0 25.00 1000	SampType: MBLK Test Batch ID: 75105 F Analysis Date: 5/24/2023 S Result PQL SPK value SPK Ref Value ND 5.0 1000 S SampType: LCS Test SampType: LCS Test SampType: LCS Test Analysis Date: 5/24/2023 S Analysis Date: 5/24/2023 S Analysis Date: 5/24/2023 S Result PQL SPK value SPK Ref Value 22 5.0 25.00 0	SampType: MBLK TestCode: E Batch ID: 75105 RunNo: 94 Analysis Date: 5/24/2023 SeqNo: 32 Result PQL SPK value SPK Ref Val %REC ND 5.0 350 84.6 SampType: LCS TestCode: E Batch ID: 75105 RunNo: 94 Analysis Date: 1000 5.0 84.6 SampType: LCS RunNo: 94 Analysis Date: 5/24/2023 SeqNo: 32 Analysis Date: SPK value SPK Ref Val %REC 22 5.0 25.00 0 88.6	SampType: MBLK TestCode: EPA Method Batch ID: 75105 RunNo: 96984 Analysis Date: 5/24/2023 SeqNo: 3519769 Result PQL SPK value SPK Ref Val %REC LowLimit ND 5.0 1000 84.6 15 SampType: LCS TestCode: EPA Method 15 SampType: LCS SeqNo: 3519769 Batch ID: 75105 RunNo: 96984 Analysis Date: S24/2023 SeqNo: 3519770 Result PQL SPK value SPK Ref Val %REC Analysis Date: S24/2023 SeqNo: 3519770 Result PQL SPK value SPK Ref Val %REC Analysis Date: S24/2023 SPK Ref Val %REC LowLimit Analysis Date: S24/2023 SeqNo: 3519770 SeqNo: 3519770 Result PQL SPK value SPK Ref Val %REC 22 5.0 25.00 88.6 70	SampType: MBLK TestCode: EPA Method 8015D: Gaso Batch ID: 75105 RunNo: 96984 Image: 1000 SeqNo: 3519769 Units: mg/k Analysis Date: 5/24/2023 SeqNo: 3519769 Units: mg/k Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit ND 5.0 1000 84.6 15 244 SampType: LCS TestCode: EPAthod SeqNo: 3519769 Units: mg/k Asso 1000 5.0 SeqNo: 84.6 15 244 SampType: LCS TestCode: EPAthod SeqNo: 3519769 Units: mg/k Analysis Date: 5/24/2023 RunNo: 96984 Units: mg/k Analysis Date: 5/24/2023 SeqNo: 3519770 Units: Mg/k Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit 22 5.0 25.00 0 88.6 70	SampType: MBLKTestCode: EPA Method 8015D: Gasoline RangeBatch ID: 75105RunNo: 96984Analysis Date: $5/24/2023$ SeqNo: 3519769 Units: mg/KgResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDND 5.0 1000 84.6 15244SampType: LCSTestCode: EPA Method 8015D: Gasoline RangeBatch ID: 75105RunNo: 96984Analysis Date: $5/24/2023$ SeqNo: 3519769 Units: mg/KgSampType: LCSTestCode: EPA Method 8015D: Gasoline RangeBatch ID: 75105 RunNo: 96984 Analysis Date: $5/24/2023$ SeqNo: 3519770 Units: mg/KgResultPQLSPK valueSPK Ref Val%RECLCSSPK valueSPK Ref Val%RECLowLimitHighLimit225.025.00088.670130	SampType: MBLKTestCode: EPA Method 8015D: Gasoline RangeBatch ID: 75105RunNo: 96984Analysis Date: $5/24/2023$ SeqNo: 3519769 Units: mg/KgResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitND 5.0 5.0 84.6 15 244 1000 RPDLimit 1000 84.6 15 244 10000 10000 10000 10000 10000 10000 10000 10000 100

	arathon Oil Com ugart West 19 F		ТВ Н							
Sample ID: mb-75105	Samp	Туре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	iles		
Client ID: PBS	Bato	ch ID: 75 1	05	F	RunNo: 96	6984				
Prep Date: 5/22/2023	Analysis	Date: 5/2	24/2023	Ş	SeqNo: 3	519793	Units: mg/K	g		
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-Bromofluorobenzer	ne 0.84		1.000		84.2	39.1	146			
Sample ID: Ics-75105	Samp	Туре: LC	s	Tes	tCode: EF	PA Method	8021B: Volati	iles		
Client ID: LCSS	Bato	ch ID: 751	05	F	RunNo: 96	5984				
Prep Date: 5/22/2023	Analysis	Date: 5/2	24/2023	5	SeqNo: 3	519794	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	84.9	70	130			
Toluene	0.84	0.050	1.000	0	84.5	70	130			
Ethylbenzene	0.83	0.050	1.000	0	82.5	70	130			
Xylenes, Total	2.5	0.10	3.000	0	82.2	70	130			
Surr: 4-Bromofluorobenzer	ne 0.86		1.000		86.2	39.1	146			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
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Page 5 of 5

2305A94

30-May-23

WO#:

Analyte detected below quantitation limits

- Sample pH Not In Range
- Reporting Limit

HALL ENVIRO ANALYS LABORA		L	TEI	2: 505-345-3	490 Albuquerq 975 FAX:	is Laboratory I Hawkins NE ue, NM 87109 505-345-4107 onmental.com	San	nple Log-In (Check List
Client Name: N	Marathon O	il Company	Work	Order Num	ber: 2305	A94		ReptNo	p: 1
Received By:	Tracy Casa	arrubias	5/20/202	23 9:30:00	AM				
	Tracy Casa		5/20/20	23 10:54:04	AM				
Reviewed By: 🎢	15-12	2/23							
Chain of Custo	ody								
1. Is Chain of Cus	tody comple	ete?			Yes		No 🗹	Not Present	
2. How was the sa	ample delive	ered?			Cour	ier			
<u>Log In</u>						_	_		
3. Was an attempt	t made to co	ool the sampl	es?		Yes	\checkmark	No 🗌	NA 🗋	
4. Were all sample	es received	at a temperat	ure of >0° C t	o 6.0°C	Yes		No 🗌	NA 🗌	
5. Sample(s) in pr	oper contair	ıer(s)?			Yes		No 🗌		
6. Sufficient sampl	le volume fo	or indicated te	st(s)?		Yes		No		
7 Are samples (ex				ed?	Yes		No 🗌		
8. Was preservativ	/e added to	bottles?			Yes		No 🗹	NA 🗌	
9. Received at leas	st 1 vial with	i headspace -	<1/4" for AQ V	'OA?	Yes		No 🗌	NA 🗹	
10. Were any samp	ole containe	rs received bi	oken?		Yes		No 🔽	# of preserved	/
11. Does paperwork (Note discrepan					Yes		No 🗌	bottles checked for pH:	or >12 unless noted)
12. Are matrices co					Yes		No 🗌	Adjusted?	
13. Is it clear what a	analyses we	re requested	2		Yes	\checkmark	No		chaba
14. Were all holding (If no, notify cus	-				Yes		No 🗌	Checked by:	THE 5/10/23
Special Handlin		·							
15. Was client noti			vith this order?	,	Yes		No 🗌	NA 🗹	
Person N	lotified:			Date			No. No. Call Concernent		
By Whom	n: 🏼			Via:	eMa	ail [] Phon	e 🗌 Fax	In Person	
Regardin	g:								
Client Ins	structions:	Mailing addre	ss is missing	on COC- TI	MC 5/20/2	3			
16. Additional rem		iah ah sin d							
		ish chain of c	ustoay						
17. <u>Cooler Inform</u> Cooler No	nation Temp °C	Condition	Seal Intact	Seal No	Seal D	ate Sin	ned By		
	5.3	Good	Yes	Yogi	Jour D	Oig			

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Melodie Sanjari	ıjari			Project Name:	Shugart Wes	Shugart West 19 Federal CTB H		MM	www.hallenvironmental.com	vironm	ental.co	E
Mailing Address:	ress:	On File		Vest	Federal 8/Shi	19 Federal 8/Shugart West 19 Federal 9	4901 }	4901 Hawkins NE -	NE - AI	Ibuquer	rque, N	Albuquerque, NM 87109
				Project #:	03A2040004	(Tel. 5	505-345-3975	3975	Fax 5	505-345-4107	4107
Phone #:	575-988-8753	-8753		MO Cost Center: 🔊 29588000	29588000	(S)		Ar	Analysis Request	Reques		
email or Fax#:	, ;#X	msanjari	msanjari@marathonoil.com	Project Manager: Ashley Giovengo	Ashley Giove	engo	(OA			_	tuəs	
QA/QC Package:	age:				575-988-0055	5	W /				sdA'	
Standard	75		Level 4 (Full Validation)		agiovengo@	agiovengo@ensolum.com		(d ' ^z	17	дuə	_
Accreditation:	:u	□ Az Co	Az Compliance	Sampler:	Ashley Giovengo	engo	a/((1.4				
		□ Other		On Ice:	er Yes	D No vooi	οЯ	99	sli			
🗆 EDD (Type)	(be)			# of Coolers:			ອ)(ро		()		
				Cooler Temp(including CF): 5.4		-0.1-5.3	191	li9	MB	101		
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL NO.	X 3 1808	N) 803 PAHs b	АЯЭЯ	v) 0 928	S) 0728 D lstoT	
023	15:24	S	1	1 jar	lce	001	イタ		X			
							-					
Date:	Time:	Relinquished by:	hed by:	Received by: Via:		Date Time	Remarks: Please	lease co	cc msanjari@marathonoil.com,	ıri@ma	rathono	il.com,
05/19/2023				3		23	agiovengo@ensolum.com and cburton@ensolum.com on results	ຼືນensolur ເພື່ອກຣoli	n.com um.com	on res	ults	
Date:	Time:	Relinquished by:	hed by:	Received by: Vi	Via: court	Date Time)				
21/14/10	John	30	annun a		V	5/20/23 9:30						
If nece	ssary, samp	oles submitter	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.	racted to other accredited I	aboratories. This s	serves as notice of this possibility. An	y sub-contracted	data will be	clearly notat	ted on the	analytical	report.



May 30, 2023

Ashley Giovengo Marathon Oil Company 4111 Tidwell Road Carlsbad, NM 88220 TEL: (575) 297-0956 FAX:

RE: Shugart West 19 Federal CTB H

OrderNo.: 2305A95

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Ashley Giovengo:

Hall Environmental Analysis Laboratory received 1 sample(s) on 5/20/2023 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Date Reported: 5/30/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Marathon Oil Company Client Sample ID: SS09-2.0' **Project:** Shugart West 19 Federal CTB H Collection Date: 5/17/2023 3:27:00 PM Lab ID: 2305A95-001 Matrix: SOIL Received Date: 5/20/2023 9:30:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: PRD **Diesel Range Organics (DRO)** 12 8.7 mg/Kg 1 5/23/2023 10:23:49 PM Motor Oil Range Organics (MRO) ND 44 mg/Kg 1 5/23/2023 10:23:49 PM Surr: DNOP 107 69-147 %Rec 1 5/23/2023 10:23:49 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 5/25/2023 6:44:00 AM 4.9 mg/Kg 1 Surr: BFB 89.8 15-244 %Rec 1 5/25/2023 6:44:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 5/25/2023 6:44:00 AM 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 5/25/2023 6:44:00 AM Ethylbenzene ND 0.049 mg/Kg 1 5/25/2023 6:44:00 AM Xylenes, Total ND 0.098 mg/Kg 1 5/25/2023 6:44:00 AM Surr: 4-Bromofluorobenzene 84.8 39.1-146 %Rec 1 5/25/2023 6:44:00 AM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride mg/Kg ND 60 20 5/25/2023 1:56:49 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level Sample Diluted Due to Matrix

- D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 5

Client:

Project:

Shugart West 19 Federal CTB H

Marathon Oil Company

Sample ID: MB-75165	SampType: MBLK	TestCode: EPA Method	300.0: Anions	
Client ID: PBS	Batch ID: 75165	RunNo: 97007		
Prep Date: 5/24/2023	Analysis Date: 5/24/2023	SeqNo: 3520086	Units: mg/Kg	
Analyte	Result PQL SPK valu	e SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	ND 1.5			
Shiohao	110 1.5			
Sample ID: LCS-75165	SampType: LCS	TestCode: EPA Method	300.0: Anions	
	-	TestCode: EPA Method RunNo: 97007	300.0: Anions	
Sample ID: LCS-75165	SampType: LCS		300.0: Anions Units: mg/Kg	
Sample ID: LCS-75165 Client ID: LCSS	SampType: LCS Batch ID: 75165	RunNo: 97007 SeqNo: 3520088	Units: mg/Kg	RPDLimit Qual

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

2305A95

30-May-23

Client:

Project:

Client ID:

Prep Date:

Sample ID: LCS-75110

LCSS

5/22/2023

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Shugart West 19 Federal CTB H

SampType: LCS

Batch ID: 75110

Analysis Date: 5/23/2023

Marathon Oil Company

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	98.8	61.9	130			
Surr: DNOP	5.0		5.000		101	69	147			
Sample ID: MB-75110	Samp	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	Organics	
Client ID: PBS	Batc	h ID: 75 ′	110	F	RunNo: 9	6945				
Prep Date: 5/22/2023	Analysis [Date: 5/ 3	23/2023	ę	SeqNo: 3	518236	Units: mg/#	٢g		
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	8.1		10.00		80.8	69	147			

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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2305A95

30-May-23

WO#:

TestCode: EPA Method 8015M/D: Diesel Range Organics

Units: mg/Kg

RunNo: 96945

SeqNo: 3518232

	Page	48	of	88
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2305A95	WO#:
30-May-23	

	n Oil Company West 19 Federal	СТВ Н							
Sample ID: mb-75105	SampType: M	BLK	TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 7	5105	F	RunNo: 96	6984				
Prep Date: 5/22/2023	Analysis Date: 5	/24/2023	Ş	SeqNo: 35	519769	Units: mg/K	(g		
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		84.6	15	244			
Sample ID: Ics-75105	SampType: L	cs	TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 7	5105	F	RunNo: 96	6984				
Prep Date: 5/22/2023	Analysis Date: 5	/24/2023	S	SeqNo: 35	519770	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22 5.0	25.00	0	88.6	70	130			
Surr: BFB	1900	1000		191	15	244			

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 5

	arathon Oil Com ugart West 19 F		ТВ Н							
Sample ID: mb-75105	Samp	Туре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	iles		
Client ID: PBS	Bato	ch ID: 75 1	05	F	RunNo: 96	6984				
Prep Date: 5/22/2023	Analysis	Date: 5/2	24/2023	S	SeqNo: 3	519793	Units: mg/K	g		
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-Bromofluorobenzer	ne 0.84		1.000		84.2	39.1	146			
Sample ID: Ics-75105	Samp	Туре: LC	s	Tes	tCode: EF	PA Method	8021B: Volati	iles		
Client ID: LCSS	Bato	ch ID: 751	05	F	RunNo: 96	5984				
Prep Date: 5/22/2023	Analysis	Date: 5/2	24/2023	5	SeqNo: 3	519794	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	84.9	70	130			
Toluene	0.84	0.050	1.000	0	84.5	70	130			
Ethylbenzene	0.83	0.050	1.000	0	82.5	70	130			
Xylenes, Total	2.5	0.10	3.000	0	82.2	70	130			
Surr: 4-Bromofluorobenzer	ne 0.86		1.000		86.2	39.1	146			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL

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2305A95

30-May-23

WO#:

Above Quantitation Range/Estimated Value

- - Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY	TEL: 505-345-3	ntal Analysis Labord 4901 Hawkin Albuquerque, NM 8 975 FAX: 505-345 v.hallenvironmental	s NE 7109 Sam 4107	nple Log-In Che			
Client Name: Marathon Oil Comp	any Work Order Num	ber: 2305A95		RcptNo: 1			
Received By: Tracy Casarrubias	5/20/2023 9:30:00	AM					
Completed By: Tracy Casarrubias	5/20/2023 10:57:19	AM					
Reviewed By: 7h 5/22/	23						
Chain of Custody		۰.	_	_			
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 s	amples?	Yes 🔽	No 🗌	NA 🗌			
A Wate all complex received at a term	persture of 20° C to 6 0°C	Yes 🔽	No 🗌				
4. Were all samples received at a terr		Yes IV⊻					
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗌				
6. Sufficient sample volume for indica	ted test(s)?	Yes 🗹	No 🗌				
7. Are samples (except VOA and ON	G) properly preserved?	Yes 🗹	No 🗌				
8. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗌			
9. Received at least 1 vial with heads	bace <1/4" for AQ VOA?	Yes 🗌	No 🗌	NA 🗹			
10. Were any sample containers received	ved broken?	Yes	No 🔽	# of preserved bottles checked			
11. Does paperwork match bottle labels (Note discrepancies on chain of cus		Yes 🗹	No 🗌	for pH:	2 unless noted)		
12. Are matrices correctly identified on	Chain of Custody?	Yes 🗹	No 🗌	Adjusted?			
13. Is it clear what analyses were reque	ested?	Yes 🗹	No 🗌				
14. Were all holding times able to be m (If no, notify customer for authoriza		Yes 🗹	No	Checked by: TW	u s/20/27		
Special Handling (if applicable	e)						
15. Was client notified of all discrepan	_	Yes 🗌	No 🗌	NA 🔽			
Person Notified:	Date	:]					
By Whom:	Via:	🗌 eMail 🗌 P	Phone 🗌 Fax	In Person			
Regarding:							
Client Instructions: Mailing	address is missing on COC- TN	MC 5/20/23					
16. Additional remarks:							
Client did not relinquish chai	n of custody						
17. <u>Cooler Information</u> Cooler No Temp ^o C Cond		Seal Date	Signed By				
1 5.3 Good	Yes Yogi						

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May 30, 2023

Ashley Giovengo Marathon Oil Company 4111 Tidwell Road Carlsbad, NM 88220 TEL: (575) 297-0956 FAX:

RE: Shugart West 19 Federal CTB H

OrderNo.: 2305A96

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Ashley Giovengo:

Hall Environmental Analysis Laboratory received 5 sample(s) on 5/20/2023 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

CLIENT: Marathon Oil Company

Analytical Report Lab Order 2305A96

Date Reported: 5/30/2023

Hall Environmental Analysis Laboratory, Inc.

Shugart West 19 Federal CTB H

Client Sample ID: SS01B-0' Collection Date: 5/17/2023 2:09:00 PM Received Date: 5/20/2023 9:30:00 AM

Lab ID: 2305A96-001	Matrix: SOIL	Received Date: 5/20/2023 9:30:00 AM					
Analyses	Result	RL Qu	al Units	DF	Date Analyzed		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: PRD		
Diesel Range Organics (DRO)	ND	8.4	mg/Kg	1	5/23/2023 10:34:52 PM		
Motor Oil Range Organics (MRO)	ND	42	mg/Kg	1	5/23/2023 10:34:52 PM		
Surr: DNOP	103	69-147	%Rec	1	5/23/2023 10:34:52 PM		
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: KMN		
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/25/2023 7:06:00 AM		
Surr: BFB	87.9	15-244	%Rec	1	5/25/2023 7:06:00 AM		
EPA METHOD 8021B: VOLATILES					Analyst: KMN		
Benzene	ND	0.025	mg/Kg	1	5/25/2023 7:06:00 AM		
Toluene	ND	0.050	mg/Kg	1	5/25/2023 7:06:00 AM		
Ethylbenzene	ND	0.050	mg/Kg	1	5/25/2023 7:06:00 AM		
Xylenes, Total	ND	0.099	mg/Kg	1	5/25/2023 7:06:00 AM		
Surr: 4-Bromofluorobenzene	85.0	39.1-146	%Rec	1	5/25/2023 7:06:00 AM		
EPA METHOD 300.0: ANIONS					Analyst: SNS		
Chloride	ND	60	mg/Kg	20	5/25/2023 2:09:09 AM		

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

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 11

Lab ID:

Analyses

Analytical Report Lab Order 2305A96

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/30/2023 **CLIENT:** Marathon Oil Company Client Sample ID: SS02A-0' Shugart West 19 Federal CTB H Collection Date: 5/17/2023 1:42:00 PM 2305A96-002 Matrix: SOIL Received Date: 5/20/2023 9:30:00 AM Result **RL** Qual Units DF **Date Analyzed EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: PRD Diesel Range Organics (DRO) ND 9.3 mg/Kg 1 5/24/2023 5:37:19 PM Motor Oil Range Organics (MRO) ND 1 47 mg/Kg 5/24/2023 5:37:19 PM 60 5 60-1/7 %Pec 1 5/24/2023 5:37:19 PM

69.5	69-147	%Rec	1	5/24/2023 5:37:19 PM
				Analyst: JJP
ND	4.9	mg/Kg	1	5/24/2023 11:29:00 PM
88.3	15-244	%Rec	1	5/24/2023 11:29:00 PM
				Analyst: KMN
ND	0.025	mg/Kg	1	5/25/2023 1:32:00 PM
ND	0.049	mg/Kg	1	5/25/2023 1:32:00 PM
ND	0.049	mg/Kg	1	5/25/2023 1:32:00 PM
ND	0.099	mg/Kg	1	5/25/2023 1:32:00 PM
83.7	39.1-146	%Rec	1	5/25/2023 1:32:00 PM
				Analyst: SNS
ND	60	mg/Kg	20	5/25/2023 2:46:12 AM
	ND 88.3 ND ND ND 83.7	ND 4.9 88.3 15-244 ND 0.025 ND 0.049 ND 0.049 ND 0.099 83.7 39.1-146	ND 4.9 mg/Kg 88.3 15-244 %Rec ND 0.025 mg/Kg ND 0.049 mg/Kg ND 0.049 mg/Kg ND 0.099 mg/Kg 83.7 39.1-146 %Rec	ND 4.9 mg/Kg 1 88.3 15-244 %Rec 1 ND 0.025 mg/Kg 1 ND 0.049 mg/Kg 1 ND 0.049 mg/Kg 1 ND 0.049 mg/Kg 1 ND 0.099 mg/Kg 1 83.7 39.1-146 %Rec 1

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

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 2 of 11

*

Lab ID:

Analyses

Analytical Report Lab Order 2305A96

Date Reported: 5/30/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Marathon Oil Company Client Sample ID: SS03B-0' Shugart West 19 Federal CTB H Collection Date: 5/17/2023 3:41:00 PM 2305A96-003 Matrix: SOIL Received Date: 5/20/2023 9:30:00 AM Result **RL** Qual Units DF **Date Analyzed EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: PRD 24 9.9 ma/Ka 1 5/24/2023 5:48:08 PM

Diesel Range Organics (DRO)	24	9.9	mg/Kg	1	5/24/2023 5:48:08 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/24/2023 5:48:08 PM
Surr: DNOP	91.5	69-147	%Rec	1	5/24/2023 5:48:08 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/24/2023 11:52:20 PM
Surr: BFB	72.1	15-244	%Rec	1	5/24/2023 11:52:20 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.025	mg/Kg	1	5/25/2023 1:54:00 PM
Toluene	ND	0.050	mg/Kg	1	5/25/2023 1:54:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	5/25/2023 1:54:00 PM
Xylenes, Total	ND	0.10	mg/Kg	1	5/25/2023 1:54:00 PM
Surr: 4-Bromofluorobenzene	83.5	39.1-146	%Rec	1	5/25/2023 1:54:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	2200	60	mg/Kg	20	5/25/2023 2:58:33 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S

Analyte detected in the associated Method Blank в

- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 3 of 11

*

Date Reported: 5/30/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Marathon Oil Company Client Sample ID: SS04A-0' **Project:** Shugart West 19 Federal CTB H Collection Date: 5/17/2023 1:40:00 PM Lab ID: 2305A96-004 Matrix: SOIL Received Date: 5/20/2023 9:30:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: PRD Diesel Range Organics (DRO) ND 9.7 mg/Kg 1 5/25/2023 6:02:59 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 5/25/2023 6:02:59 PM Surr: DNOP 85.3 69-147 %Rec 1 5/25/2023 6:02:59 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 5/25/2023 12:15:38 AM 4.9 mg/Kg 1 Surr: BFB 74.7 15-244 %Rec 1 5/25/2023 12:15:38 AM **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 5/25/2023 2:15:00 PM 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 5/25/2023 2:15:00 PM Ethylbenzene ND 0.049 mg/Kg 1 5/25/2023 2:15:00 PM Xylenes, Total ND 0.098 mg/Kg 1 5/25/2023 2:15:00 PM Surr: 4-Bromofluorobenzene 84.5 39.1-146 %Rec 1 5/25/2023 2:15:00 PM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride mg/Kg 320 60 20 5/25/2023 3:10:54 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL

Practical Quanitative Limit S

% Recovery outside of standard limits. If undiluted results may be estimated.

Analyte detected in the associated Method Blank в

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 4 of 11

Date Reported: 5/30/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Marathon Oil Company Client Sample ID: SS05-0' **Project:** Shugart West 19 Federal CTB H Collection Date: 5/17/2023 9:36:00 AM Lab ID: 2305A96-005 Matrix: SOIL Received Date: 5/20/2023 9:30:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: PRD Diesel Range Organics (DRO) 18 9.8 mg/Kg 1 5/24/2023 1:34:32 PM Motor Oil Range Organics (MRO) 57 49 mg/Kg 1 5/24/2023 1:34:32 PM Surr: DNOP 71.2 69-147 %Rec 1 5/24/2023 1:34:32 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 5/25/2023 12:39:01 AM 4.9 mg/Kg 1 Surr: BFB 80.6 15-244 %Rec 1 5/25/2023 12:39:01 AM **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 5/25/2023 2:37:00 PM 0.024 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 5/25/2023 2:37:00 PM Ethylbenzene ND 0.049 mg/Kg 1 5/25/2023 2:37:00 PM Xylenes, Total ND 0.097 mg/Kg 5/25/2023 2:37:00 PM 1 Surr: 4-Bromofluorobenzene 84.5 39.1-146 %Rec 1 5/25/2023 2:37:00 PM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride mg/Kg ND 60 20 5/25/2023 3:23:15 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL

Practical Quanitative Limit S

% Recovery outside of standard limits. If undiluted results may be estimated.

- Analyte detected in the associated Method Blank в
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 5 of 11

Client:

Chloride

Marathon Oil Company

Project:	Shug	gart West 19 Federal CTB H		
Sample ID:	MB-75165	SampType: MBLK	TestCode: EPA Method 300.0: Anions	
Client ID:	PBS	Batch ID: 75165	RunNo: 97007	
Prep Date:	5/24/2023	Analysis Date: 5/24/2023	SeqNo: 3520086 Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD	RPDLimit Qual
Chloride		ND 1.5		
Sample ID:	LCS-75165	SampType: LCS	TestCode: EPA Method 300.0: Anions	
Client ID:	LCSS	Batch ID: 75165	RunNo: 97007	
Prep Date:	5/24/2023	Analysis Date: 5/24/2023	SeqNo: 3520088 Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD	RPDLimit Qual

14 1.5 15.00 0 94.2 90 110

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- в Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 6 of 11

2305A96

30-May-23

Client:

Project:

Client ID:

Prep Date:

Surr: DNOP

Client ID:

Analyte

Analyte

Analyte

Analvte

Sample ID: 2305A96-001AMS

Diesel Range Organics (DRO)

Diesel Range Organics (DRO)

Sample ID: LCS-75110

Diesel Range Organics (DRO)

Sample ID: MB-75110

Diesel Range Organics (DRO)

Sample ID: LCS-75133

LCSS

Motor Oil Range Organics (MRO)

PBS

5/22/2023

LCSS

5/22/2023

SS01B-0'

Sample ID: 2305A96-001AMSD

SS01B-0'

5/22/2023

5/22/2023

OC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Shugart West 19 Federal CTB H

Result

Result

Result

Result

ND

ND

8.1

49

5.0

37

3.4

39

4.0

SampType: MS

Batch ID: 75110

Analysis Date: 5/24/2023

SampType: MSD

Batch ID: 75110

Analysis Date: 5/24/2023

SampType: LCS

Batch ID: 75110

Analysis Date: 5/23/2023

SampType: MBLK

Batch ID: 75110

Analysis Date: 5/23/2023

SampType: LCS

Batch ID: 75133

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PQL

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PQL

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SPK value

SPK value

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SPK value SPK Ref Val

SPK value SPK Ref Val

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4.448

Marathon Oil Company

Prep	Date: 5/23/2023	Analysis E		24/2023	•	SeqNo: 3	019507	Units: mg/K	-9		
Analy	/te	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qu
Diesel	Range Organics (DRO)	57	10	50.00	0	114	61.9	130			
Surr	: DNOP	6.2		5.000		124	69	147			
Qualif	fiers:										
*	Value exceeds Maximum Contan	ninant Level.			-		ssociated Method				
* D	Value exceeds Maximum Contan Sample Diluted Due to Matrix				E Above Qu	antitation Rang	e/Estimated Valu	ie			
* D H	Value exceeds Maximum Contan Sample Diluted Due to Matrix Holding times for preparation or a	analysis exceeded			E Above Qu J Analyte de	antitation Rangetected below q	e/Estimated Valu uantitation limits	ie			6.1.1
* D	Value exceeds Maximum Contan Sample Diluted Due to Matrix	analysis exceeded			E Above Qu J Analyte de	antitation Rang tected below q I Not In Range	e/Estimated Valu uantitation limits	ie		Page 7 o	f 11

WO#:

TestCode: EPA Method 8015M/D: Diesel Range Organics

Units: mg/Kg

135

147

Units: mg/Kg

135

147

Units: mg/Kg

130

147

Units: mg/Kg

147

HighLimit

TestCode: EPA Method 8015M/D: Diesel Range Organics

HighLimit

TestCode: EPA Method 8015M/D: Diesel Range Organics

HighLimit

TestCode: EPA Method 8015M/D: Diesel Range Organics

%RPD

%RPD

%RPD

%RPD

7.00

0

RPDLimit

RPDLimit

RPDLimit

RPDLimit

29.2

0

HighLimit

TestCode: EPA Method 8015M/D: Diesel Range Organics

RunNo: 96945

%REC

70.1

89.4

RunNo: 96945

%REC

67.4

799

RunNo: 96945

%REC

98.8

101

RunNo: 96945

%REC

80.8

RunNo: 97001

SeqNo: 3518236

SeqNo: 3518232

SeqNo: 3518229

SPK Ref Val

8 0 3 0

SPK Ref Val

8.030

0

SeqNo: 3518228

LowLimit

LowLimit

LowLimit

LowLimit

69

61.9

69

54.2

69

54.2

69

2305A96

Qual

Qual

Qual

Qual

Qual

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Released to Imaging: 7/31/2023 10:26:11 AM

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

	on Oil Comp West 19 Fee	•	ТВ Н							
Sample ID: MB-75133	SampT	уре: МЕ	BLK	Tes	stCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch	ID: 751	33	F	RunNo: 97	7001				
Prep Date: 5/23/2023	Analysis Da	ate: 5/2	24/2023	:	SeqNo: 3	519510	Units: mg/K	g		
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	9.5		10.00		94.9	69	147			
Sample ID: LCS-75177	SampT	ype: LC	s	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batch	ID: 751	77	F	RunNo: 97	7035				
Prep Date: 5/25/2023	Analysis Da	ate: 5/2	25/2023	:	SeqNo: 3	521100	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.0	61.9	130			
Surr: DNOP	4.4		5.000		87.2	69	147			
Sample ID: MB-75177	SampT	уре: МЕ	BLK	Tes	stCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch	ID: 751	77	F	RunNo: 9 7	7035				
Prep Date: 5/25/2023	Analysis Da	ate: 5/2	25/2023	\$	SeqNo: 3	521102	Units: mg/K	g		
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	9.4		10.00		94.1	69	147			

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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2305A96

30-May-23

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:		n Oil Comp West 19 Fe	•	TB H							
Sample ID:	lcs-75127	SampT	ype: LC	S	Tes	tCode: EF	A Method	8015D: Gasol	line Range		
Client ID:	LCSS	Batch	ID: 75	127	F	RunNo: 96	6974				
Prep Date:	5/23/2023	Analysis D	ate: 5/ 2	24/2023	S	SeqNo: 35	519391	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	23	5.0	25.00	0	92.3	70	130			
Surr: BFB		5000		1000		496	15	244			S
Sample ID:	mb-75127	SampT	ype: ME	BLK	Tes	tCode: EF	A Method	8015D: Gasol	line Range		
Client ID:	PBS	Batch	ID: 75	127	F	RunNo: 96	6974				
Prep Date:	5/23/2023	Analysis D	ate: 5/ 2	24/2023	S	SeqNo: 35	519392	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	ND	5.0								
Surr: BFB		910		1000		90.8	15	244			
Sample ID:	mb-75105	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gasol	line Range		
Client ID:	PBS	Batch	ID: 75	105	F	RunNo: 96	6984				
Prep Date:	5/22/2023	Apolycic D									
		Analysis D	ate: 5/	24/2023	5	SeqNo: 35	519769	Units: mg/K	g		
Analyte		Result	ate: 5/ : PQL		SPK Ref Val	SeqNo: 3 %REC	5 19769 LowLimit	Units: mg/K HighLimit	í g %RPD	RPDLimit	Qual
	je Organics (GRO)							U	•	RPDLimit	Qual
	e Organics (GRO)	Result	PQL					U	•	RPDLimit	Qual
Gasoline Rang		Result ND 850	PQL	SPK value 1000	SPK Ref Val	%REC 84.6	LowLimit 15	HighLimit	%RPD		Qual
Gasoline Rang Surr: BFB		Result ND 850 SampT	PQL 5.0	SPK value 1000 S	SPK Ref Val	%REC 84.6	LowLimit 15 PA Method	HighLimit	%RPD		Qual
Gasoline Rang Surr: BFB Sample ID:	lcs-75105	Result ND 850 SampT	PQL 5.0 ype: LC	SPK value 1000 S 105	SPK Ref Val Tes F	%REC 84.6 tCode: EF	LowLimit 15 PA Method 5 5984	HighLimit	%RPD		Qual
Gasoline Rang Surr: BFB Sample ID: Client ID:	lcs-75105 LCSS	Result ND 850 SampT Batch	PQL 5.0 ype: LC	SPK value 1000 S 105 24/2023	SPK Ref Val Tes F	%REC 84.6 tCode: EF RunNo: 96	LowLimit 15 PA Method 5 5984	HighLimit 244 8015D: Gasol	%RPD		Qual
Gasoline Rang Surr: BFB Sample ID: Client ID: Prep Date: Analyte	lcs-75105 LCSS	Result ND 850 SampT Batch Analysis D	PQL 5.0 ype: LC ID: 75' ate: 5/	SPK value 1000 S 105 24/2023	SPK Ref Val Tes F	%REC 84.6 tCode: EF RunNo: 96 SeqNo: 35	LowLimit 15 PA Method 5984 519770	HighLimit 244 8015D: Gasol Units: mg/K	%RPD		

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL Reporting Limit

WO#: **2305A96**

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:		ion Oil Com t West 19 Fe	•	ТВ Н							
Sample ID:	LCS-75127	Samp	ype: LC	s	Tes	tCode: EP	A Method	8021B: Volati	les		
Client ID:	LCSS	Batcl	n ID: 751	27	F	RunNo: 96	974				
Prep Date:	5/23/2023	Analysis [Date: 5/2	24/2023	S	SeqNo: 35	19397	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.85	0.025	1.000	0	85.2	70	130			
Toluene		0.88	0.050	1.000	0	87.9	70	130			
Ethylbenzene		0.89	0.050	1.000	0	89.0	70	130			
Xylenes, Total		2.7	0.10	3.000	0	89.2	70	130			
Surr: 4-Bron	nofluorobenzene	0.99		1.000		99.1	39.1	146			
Sample ID:	mb-75127	SampT	уре: МВ	BLK	Tes	tCode: EP	A Method	8021B: Volati	les		
Client ID:	PBS	Batcl	n ID: 751	27	F	RunNo: 96	974				
Prep Date:	5/23/2023	Analysis [Date: 5/2	24/2023	S	SeqNo: 35	19398	Units: mg/K	g		
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-Bron	nofluorobenzene	0.96		1.000		95.9	39.1	146			
Sample ID:	mb-75105	SampT	уре: МВ	BLK	Tes	tCode: EP	A Method	8021B: Volati	les		
Client ID:	PBS	Batcl	n ID: 751	05	F	RunNo: 96	984				
Prep Date:	5/22/2023	Analysis [Date: 5/2	24/2023	S	SeqNo: 35	19793	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	فاعدا العام ا	0/000	RPDLimit	Qual
Benzene		ND	0.025				LOWEINIK	HighLimit	%RPD		
Toluene						,	LowEmit	HighLimit	%RPD		
E 0. 0		ND	0.050				LowLinit	HighLimit	%RPD		
Ethylbenzene		ND	0.050 0.050				LowLink	HignLimit	%RPD		
Xylenes, Total	ofluorobonzono	ND ND	0.050	1 000					%RPD		
Xylenes, Total Surr: 4-Bron	nofluorobenzene	ND ND 0.84	0.050 0.050 0.10	1.000		84.2	39.1	146			
Xylenes, Total Surr: 4-Bron Sample ID:	lcs-75105	ND ND 0.84 SampT	0.050 0.050 0.10	s		84.2 tCode: EF	39.1 'A Method				
Xylenes, Total Surr: 4-Bron Sample ID: Client ID:		ND ND 0.84 Samp ¹ Batcl	0.050 0.050 0.10 Type: LC	S 105	F	84.2 tCode: EF RunNo: 96	39.1 A Method -	146			
Xylenes, Total Surr: 4-Bron Sample ID:	lcs-75105	ND ND 0.84 SampT	0.050 0.050 0.10 Type: LC	S 105	F	84.2 tCode: EF	39.1 A Method -	146	iles		
Xylenes, Total Surr: 4-Bron Sample ID: Client ID:	lcs-75105 LCSS	ND ND 0.84 Samp ¹ Batcl	0.050 0.050 0.10 Type: LC	S 105 24/2023 SPK value	F	84.2 tCode: EF RunNo: 96	39.1 A Method -	146 8021B: Volati	iles	RPDLimit	Qual
Xylenes, Total Surr: 4-Bron Sample ID: Client ID: Prep Date:	lcs-75105 LCSS	ND ND 0.84 Samp Batcl Analysis I Result 0.85	0.050 0.050 0.10 Type: LC D ID: 751 Date: 5/2 PQL 0.025	S 105 24/2023 SPK value 1.000	F	84.2 tCode: EF RunNo: 96 SeqNo: 35 %REC 84.9	39.1 A Method 5 984 19794 LowLimit 70	146 8021B: Volati Units: mg/K HighLimit 130	les		Qual
Xylenes, Total Surr: 4-Bron Sample ID: Client ID: Prep Date: Analyte	lcs-75105 LCSS	ND ND 0.84 Samp Batcl Analysis I Result	0.050 0.050 0.10 Type: LC Date: 5/2 PQL 0.025 0.050	S 105 24/2023 SPK value 1.000 1.000	F S SPK Ref Val	84.2 tCode: EF RunNo: 96 SeqNo: 35 %REC 84.9 84.5	39.1 A Method 984 19794 LowLimit 70 70	146 8021B: Volati Units: mg/K HighLimit 130 130	les		Qual
Xylenes, Total Surr: 4-Bron Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene	lcs-75105 LCSS	ND ND 0.84 SampT Batcl Analysis D Result 0.85 0.84 0.83	0.050 0.050 0.10 Type: LC 0.025 0.025 0.050 0.050	S 105 24/2023 SPK value 1.000 1.000 1.000	F SPK Ref Val 0 0 0	84.2 tCode: EF RunNo: 96 SeqNo: 35 %REC 84.9 84.5 82.5	39.1 A Method 984 19794 LowLimit 70 70 70 70	146 8021B: Volati Units: mg/K HighLimit 130 130 130	les		Qual
Xylenes, Total Surr: 4-Bron Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	lcs-75105 LCSS	ND ND 0.84 Samp Batc Analysis I Result 0.85 0.84	0.050 0.050 0.10 Type: LC Date: 5/2 PQL 0.025 0.050	S 105 24/2023 SPK value 1.000 1.000	F SPK Ref Val 0 0	84.2 tCode: EF RunNo: 96 SeqNo: 35 %REC 84.9 84.5	39.1 A Method 984 19794 LowLimit 70 70	146 8021B: Volati Units: mg/K HighLimit 130 130	les		Qual

Qualifiers:

- Value exceeds Maximum Contaminant Level. *
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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WO#: 2305A96

	arathon Oil Com ugart West 19 F		ТВ Н							
Sample ID: mb-75127	Samp	Туре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: PBS	Bato	ch ID: 75 1	127	F	RunNo: 97	7020				
Prep Date: 5/23/2023	Analysis	Date: 5/2	25/2023	S	SeqNo: 35	520527	Units: mg/K	g		
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-Bromofluorobenzen	e 0.86		1.000		86.1	39.1	146			
Sample ID: Ics-75127	Samp	Туре: LC	S	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: LCSS	Bato	ch ID: 751	127	F	RunNo: 97	7020				
Prep Date: 5/23/2023	Analysis	Date: 5/2	25/2023	S	SeqNo: 35	520528	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.025	1.000	0	86.7	70	130			
Toluene	0.87	0.050	1.000	0	86.5	70	130			
Ethylbenzene	0.84	0.050	1.000	0	84.5	70	130			
Xylenes, Total	2.5	0.10	3.000	0	83.9	70	130			

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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2305A96

30-May-23

Client Name: Marathon Oil Company Work Order Number: 2305A96 RepNo: 1 Received By: Tracy Casarrubias 5/20/2023 9:30:00 AM Completed By: Tracy Casarrubias 5/20/2023 10:59:56 AM Reviewed By: Tracy Casarrubias 5/20/2023 10:59:56 AM No Main of Custody complet? Yes No 1 Is Chain of Custody complete? Yes No MA 2. How was the sample delivered? Courter MA 3. Nvas an attempt made to cool the samples? Yes No MA 5. Sample(s) in proper containe(s)? Yes No No 8. Were all sample containers received treat/s/? Yes No No 9. Received at least 1 vial with headspace <1/4* for AQ VOA? Yes No of preserved	HALL ENVIRONMENTAL ANALYSIS LABORATORY	TEL: 505-345-3	ntal Analysis Labora 4901 Hawkins Albuquerque, NM 87 975 FAX: 505-345-4 v.hallenvironmental.	ne 109 Sam 107	ple Log-In Chec	k List
Completed By: Tracy Casarrubias 5/20/2023 10:59:56 AM Reviewed By: Ju 5-∫ 2.2 / 2.3 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 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 NA 6. Sufficient sample volume for indicated test(s)? Yes No NA 7. Are samples (except VOA and ONG) properly preserved? 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 For preserved bottles for pH: */You discopancies on chain of custody? Yes No For preserved bottles for pH: */You discopancies on chain of custody? Yes No Checked by: "TWL S//b/ */You discopancies on chain of custody? Yes	Client Name: Marathon Oil Company	Work Order Num	ber: 2305A96		RcptNo: 1	
Reviewed By: Ju 5-1 2 2 2 3 Chain of Custody 1. Is Chain of Custody complete? Yes No No Not Present 2. How was the sample delivered? Courier Log In No NA 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 NA 6. Sufficient sample volume for indicated test(s)? Yes No NA 7. Are samples (except VOA and ONG) properly preserved? Yes No NA 9. Received at least 1 viai with headspace <1/4° for AQ VOA?	Received By: Tracy Casarrubias	5/20/2023 9:30:00	AM			
Chain of Custody 1. Is Chain of Custody complete? Yes No No No Present 2. How was the sample delivered? Courier Log In	Completed By: Tracy Casarrubias	5/20/2023 10:59:56	AM			
1. Is Chain of Custody complete? Yes No Ø Not Present 2. How was the sample delivered? Counter 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 NA 6. Sufficient sample volume for indicated test(s)? Yes No NA 7. Are samples (except VOA and ONG) properly preserved? Yes No NA 9. Received at least 1 vial with headspace <1/td> Yes No NA Ø 10. Were any sample containers received broken? Yes No NA Ø 11. Does paperwork match bottle labels? Yes No NA Ø 12. Are matrices correcity identified on Chain of Custody? Yes No Additisted? 12. Are matrices correcity identified on Chain of Custody? Yes No Na Ø 13. Is it clear what analyses were requested? Yes No Na Ø 14. Were all hooling times able to be men? Yes No Na Ø 15. Was client notif	Reviewed By: 7n 5-122/23					
2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? Yes Ø No NA 4. Were all samples received at a temperature of >0° C to 5.0°C Yes Ø No NA 5. Sample(s) in proper container(s)? Yes Ø No NA 6. Sufficient sample volume for indicated test(s)? Yes Ø No NA 7. Are samples (except VOA and ONG) properly preserved? Yes Ø No NA 9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Chain of Custody		_	_		
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 NA 6. Sufficient sample volume for indicated test(s)? Yes No NA 7. Are samples (except VOA and ONG) properly preserved? Yes No NA 8. Was preservative added to bottles? Yes No NA 9. Received at least 1 vial with headspace <1/4° for AQ VOA?	1. Is Chain of Custody complete?		Yes 🗌	No 🗹	Not Present	
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 NA 6. Sufficient sample volume for indicated test(s)? Yes No NA 7. Are samples (except VOA and ONG) properly preserved? Yes No NA 9. Received at least 1 vial with headspace <1/4" for AQ VOA?	2. How was the sample delivered?		<u>Courier</u>			
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 preservative added to bottles? Yes No 9. Received at least 1 vial with headspace <14" for AQ VOA?			Yes 🔽	No 🗌	NA 🗋	
6. Sufficient sample volume for indicated test(s)? Yes No 7. Are samples (except VOA and ONG) properly preserved? Yes No 8. Was preservative added to bottles? Yes No NA 9. Received at least 1 vial with headspace <1/4" for AQ VOA?	4. Were all samples received at a temperature	of >0° C to 6.0°C	Yes 🔽	No 🗌	NA 🗌	
7. Are samples (except VOA and ONG) properly preserved? Yes No 8. Was preservative added to bottles? Yes No NA 9. Received at least 1 vial with headspace <1/4" for AQ VOA?	5. Sample(s) in proper container(s)?		Yes 🗹	No 🗌		
 8. Was preservative added to bottles? 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No NA 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No No NA 10. Were any sample containers received broken? 11. Does paperwork match bottle labels? Yes No 12. Are matrices correctly identified 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? Yes No 15. Was client notified of all discrepancies with this order? Yes No 15. Was client notified if applicable) 15. Was client notified of all discrepancies with this order? Yes No NA Person Notified: Date: Date:	6. Sufficient sample volume for indicated test(s)	?	Yes 🗹	No 🗌		
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	7. Are samples (except VOA and ONG) properly	y preserved?	Yes 🗹			
10. Were any sample containers received broken? Yes No	8. Was preservative added to bottles?		Yes 🗌	No 🔽	NA 🗌	
11. Does paperwork match bottle labels? Yes ✓ No # of preserved bottles checked for pH: (Note discrepancies on chain of custody) 12. Are matrices correctly identified on Chain of Custody? Yes ✓ No Adjusted? 13. Is it clear what analyses were requested? Yes ✓ No Adjusted? 14. Were all holding times able to be met? Yes ✓ No Checked by: TML \$ / Ub / 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: Matling address is missing on COC- TMC 5/20/23 16. Additional remarks: Client did not relinguish chain of custody 17. Cooler Information Via: Color Information Kational remarks: Client did not relinguish chain of custody	9. Received at least 1 vial with headspace <1/4	for AQ VOA?	Yes 🗌	No 🗌	NA 🗹	
(Note discrepancies on chain of custody) 12. Are matrices correctly identified on Chain of Custody? Yes No Adjointed? 13. Is it clear what analyses were requested? Yes No Adjointed? 14. Were all holding times able to be met? Yes No Checked by: TML 5/bb/ 14. Were all holding times able to be met? Yes No 14. Were all holding times able to be met? Yes No Special Handling (if applicable) 15. Was client notified: Date: By Whom: Via: edail Person Notified: By Whom: Via: edail Phone Fax In Person Regarding: Client Instructions: Mailing address is missing on COC- TMC 5/20/23 16. Additional remarks: Client did not relinguish chain of custody	10. Were any sample containers received broke	n?	Yes	No 🗹		
12. Are inflatices contendly identified on chain of custody? 13. Is it clear what analyses were requested? 14. Were all holding times able to be met? 16. Additional remarks: Client did not relinquish chain of custody			Yes 🔽	No 🗌	<2 or >12 ur	less noted)
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes No Checked by: TML 5/U/ Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes No NA Person Notified: Date: Date: Date: If Phone Fax In Person By Whom: Via: eMail Phone Fax In Person Client Instructions: Mailing address is missing on COC- TMC 5/20/23 16. Additional remarks: Client did not relinquish chain of custody 17. Cooler Information Cooler Information Client Instructions Custody	12. Are matrices correctly identified on Chain of 0	Custody?	Yes 🗹	No 🗌	Adjusted?	
<pre>(If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes No No NA Person Notified: Date: By Whom: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: Mailing address is missing on COC- TMC 5/20/23 16. Additional remarks: Client did not relinquish chain of custody 17. Cooler Information</pre>				_		chehr
15. Was client notified of all discrepancies with this order? Yes No NA ✓ Person Notified: Date: ✓	-		Yes 🗹	No 📋	Checked by: [WL	5/10/13
Person Notified: Date: By Whom: Via: By Whom: Via: Client Instructions: Mailing address is missing on COC- TMC 5/20/23 16. Additional remarks: Client did not relinguish chain of custody 17. Cooler Information	Special Handling (if applicable)					
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Regarding: Client Instructions: Mailing address is missing on COC- TMC 5/20/23 16. Additional remarks: Client did not relinquish chain of custody 17. Cooler Information	Person Notified:	Date	·]			
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Client did not relinquish chain of custody 17. <u>Cooler Information</u>		s missing on COC- TN	AC 5/20/23			
17. <u>Cooler Information</u>						
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Client: N	Aaratho	Marathon Oil Company	npany	Standard	K Rush	5 Daw	ANALYSIS LABORATORY	RATORY
Melodie Sanjari	jari			Project Name:	Shugart West	Shugart West 19 Federal CTB H	www.hallenvironmental.com	ll.com
Mailing Address:	ess:	On File		Shugart West 19	Federal 8/Shu	19 Federal 8/Shugart West 19 Federal 9	4901 Hawkins NE - Albuquerque, NM 87109	, NM 87109
				Project #:	03A2040004		Tel. 505-345-3975 Fax 505-345-4107	45-4107
Phone #: 5	575-988-8753	3-8753		MO Cost Center:	er: 60 29588000	(Ja	Analysis Request	
l a	#	msanjari	msanjari@marathonoil.com	Project Manager:	er: Ashley Giovengo	obu	S S S	uəs
QA/QC Package:	age:				575-988-0055		504 211W 505	dA\
Standard	5		Level 4 (Full Validation)		agiovengo@ensolum.com	ansolum.com) ^{3,} F	tnəa
Accreditation	-	□ Az Co	□ Az Compliance	Sampler:	Ashley Giovengo	obu	// I/ I	
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Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	2 305 PALO) 0228) 0528	Total (
5/17/2023	14:09	1	SS01B-0'	1 jar	lce	001	+	
5/17/2023	13:42		SS02A-0'	1 jar	lce	200	×	
5/17/2023	15:41	S	SS03B-0'	1 jar	lce	003		
5/17/2023	13:40	S	SS04A-0'	1 jar	lce	004		
5/17/2023	9:36	S	SS05-0'	1 jar	lce	005	<i>7</i> <i>1</i> <i>1</i>	
1	Time:	Relinquished by:	hed by:	Received by: V	Via:	Date Time	Remarks: Please cc msanjari@marathonoil.com,	ionoil.com,
05/09/2023				57		3	agiovengo@ensoium.com and cburton@ensoium.com on results	
Τ	Time:	Relinquished by:	shed by:		Via: coult	Date Time 9:30)	
24/29	All A	ALAA	Constant of			Step 3		
18	mea nead	nhas submitte	ad to Hall Environmental may be surticion	tracted to other accredited	laboratories. This s	erves as notice of this possibility. A	serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.	ytical report.

ē If necessary, samples submitted to Hall Environmental may as set contracted to other accredited laboratories. This serves as



May 30, 2023

Ashley Giovengo Marathon Oil Company 4111 Tidwell Road Carlsbad, NM 88220 TEL: (575) 297-0956 FAX:

RE: Shugart West 19 Federal CTB H

OrderNo.: 2305A97

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Ashley Giovengo:

Hall Environmental Analysis Laboratory received 5 sample(s) on 5/20/2023 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

CLIENT: Marathon Oil Company

Analytical Report Lab Order 2305A97

Date Reported: 5/30/2023

Hall Environmental Analysis Laboratory, Inc.

Shugart West 19 Federal CTB H

Client Sample ID: SS06D-0' Collection Date: 5/17/2023 3:28:00 PM Received Date: 5/20/2023 9:30:00 AM

Lab ID: 2305A97-001	Matrix: SOIL	Rece	eived Date:	5/20/2	023 9:30:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	E ORGANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/24/2023 9:38:25 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/24/2023 9:38:25 PM
Surr: DNOP	105	69-147	%Rec	1	5/24/2023 9:38:25 PM
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/25/2023 4:04:00 PM
Surr: BFB	91.5	15-244	%Rec	1	5/25/2023 4:04:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.024	mg/Kg	1	5/25/2023 4:04:00 PM
Toluene	ND	0.048	mg/Kg	1	5/25/2023 4:04:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	5/25/2023 4:04:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	5/25/2023 4:04:00 PM
Surr: 4-Bromofluorobenzene	88.2	39.1-146	%Rec	1	5/25/2023 4:04:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	5/25/2023 3:35:34 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.
 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 standard limits. If undiluted results may be estimated.

- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 11

Date Reported: 5/30/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Marathon Oil Company Client Sample ID: SS07B-0' **Project:** Shugart West 19 Federal CTB H Collection Date: 5/17/2023 12:05:00 PM Lab ID: 2305A97-002 Matrix: SOIL Received Date: 5/20/2023 9:30:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: PRD Diesel Range Organics (DRO) 11 9.9 mg/Kg 1 5/24/2023 9:49:20 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 5/24/2023 9:49:20 PM Surr: DNOP 99.2 69-147 %Rec 1 5/24/2023 9:49:20 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 5/25/2023 5:09:00 PM 4.8 mg/Kg 1 Surr: BFB 87.8 15-244 %Rec 1 5/25/2023 5:09:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 5/25/2023 5:09:00 PM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 5/25/2023 5:09:00 PM Ethylbenzene ND 0.048 mg/Kg 1 5/25/2023 5:09:00 PM Xylenes, Total ND 0.096 mg/Kg 1 5/25/2023 5:09:00 PM Surr: 4-Bromofluorobenzene 84.7 39.1-146 %Rec 1 5/25/2023 5:09:00 PM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride mg/Kg 180 60 20 5/25/2023 3:47:55 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

POL

Practical Quanitative Limit S

% Recovery outside of standard limits. If undiluted results may be estimated.

Analyte detected in the associated Method Blank в

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 2 of 11

Date Reported: 5/30/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Marathon Oil Company Client Sample ID: SS08C-0' **Project:** Shugart West 19 Federal CTB H Collection Date: 5/17/2023 3:41:00 PM Lab ID: 2305A97-003 Matrix: SOIL Received Date: 5/20/2023 9:30:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: PRD EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO) 9.8 9.4 mg/Kg 1 5/24/2023 10:00:16 PM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 5/24/2023 10:00:16 PM Surr: DNOP 106 69-147 %Rec 1 5/24/2023 10:00:16 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 5/25/2023 6:58:00 PM 4.9 mg/Kg 1 Surr: BFB 90.3 15-244 %Rec 1 5/25/2023 6:58:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 5/25/2023 6:58:00 PM 0.024 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 5/25/2023 6:58:00 PM Ethylbenzene ND 0.049 mg/Kg 1 5/25/2023 6:58:00 PM Xylenes, Total ND 0.097 mg/Kg 1 5/25/2023 6:58:00 PM Surr: 4-Bromofluorobenzene 85.6 39.1-146 %Rec 1 5/25/2023 6:58:00 PM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride mg/Kg 5/25/2023 4:00:16 AM ND 60 20

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

Qualifiers:

Value exceeds Maximum Contaminant Level Sample Diluted Due to Matrix

- D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 11

Date Reported: 5/30/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Marathon Oil Company Client Sample ID: SS09-0' **Project:** Shugart West 19 Federal CTB H Collection Date: 5/17/2023 10:23:00 AM Lab ID: 2305A97-004 Matrix: SOIL Received Date: 5/20/2023 9:30:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: PRD **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) 19 9.6 mg/Kg 1 5/24/2023 10:11:14 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 5/24/2023 10:11:14 PM Surr: DNOP 108 69-147 %Rec 1 5/24/2023 10:11:14 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 5/25/2023 7:19:00 PM 4.8 mg/Kg 1 Surr: BFB 90.9 15-244 %Rec 1 5/25/2023 7:19:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 5/25/2023 7:19:00 PM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 5/25/2023 7:19:00 PM Ethylbenzene ND 0.048 mg/Kg 1 5/25/2023 7:19:00 PM Xylenes, Total ND 0.095 mg/Kg 5/25/2023 7:19:00 PM 1 Surr: 4-Bromofluorobenzene 87.2 39.1-146 %Rec 1 5/25/2023 7:19:00 PM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride mg/Kg 5/25/2023 4:12:37 AM 84 60 20

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

Qualifiers:

Value exceeds Maximum Contaminant Level
 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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range RL Reporting Limit

RL Rep

Page 4 of 11

Date Reported: 5/30/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Marathon Oil Company Client Sample ID: SS10-0' **Project:** Shugart West 19 Federal CTB H Collection Date: 5/17/2023 10:29:00 AM Lab ID: 2305A97-005 Matrix: SOIL Received Date: 5/20/2023 9:30:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: PRD EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO) ND 9.7 mg/Kg 1 5/24/2023 10:22:12 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 5/24/2023 10:22:12 PM Surr: DNOP 109 69-147 %Rec 1 5/24/2023 10:22:12 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 5/25/2023 7:41:00 PM 4.9 mg/Kg 1 Surr: BFB 89.7 15-244 %Rec 1 5/25/2023 7:41:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 5/25/2023 7:41:00 PM 0.024 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 5/25/2023 7:41:00 PM Ethylbenzene ND 0.049 mg/Kg 1 5/25/2023 7:41:00 PM Xylenes, Total ND 0.097 mg/Kg 1 5/25/2023 7:41:00 PM Surr: 4-Bromofluorobenzene 86.4 39.1-146 %Rec 1 5/25/2023 7:41:00 PM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride mg/Kg ND 60 20 5/25/2023 4:49:39 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

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% Recovery outside of standard limits. If undiluted results may be estimated.

Analyte detected in the associated Method Blank в

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 5 of 11

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Client: Project:		athon Oil Company gart West 19 Federal CTB H				
Sample ID:	MB-75165	SampType: MBLK	TestCode: EPA Method	300.0: Anions		
Client ID: F	PBS	Batch ID: 75165	RunNo: 97007			
Prep Date:	5/24/2023	Analysis Date: 5/24/2023	SeqNo: 3520086	Units: mg/Kg		
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RP	PD RPDLimit	Qual
Chloride		ND 1.5				
Sample ID: L	_CS-75165	SampType: LCS	TestCode: EPA Method	300.0: Anions		
Client ID: L	LCSS	Batch ID: 75165	RunNo: 97007			
Prep Date:	5/24/2023	Analysis Date: 5/24/2023	SeqNo: 3520088	Units: mg/Kg		
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RP	D RPDLimit	Qual

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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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 11

2305A97

30-May-23
QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	Marathon Shugart W	-		ТВ Н							
Sample ID:	2305A97-001AMS	SampT	уре: МS	;	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	SS06D-0'	Batch	n ID: 751	46	F	RunNo: 97	7001				
Prep Date:	5/24/2023	Analysis D	Date: 5/2	25/2023	S	SeqNo: 35	519455	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	Organics (DRO)	42	9.6	47.89	0	86.7	54.2	135			
Surr: DNOP		4.7		4.789		98.5	69	147			
Sample ID:	2305A97-001AMSD	SampT	уре: МS	D	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	SS06D-0'	Batch	n ID: 751	46	F	RunNo: 97	7001				
Prep Date:	5/24/2023	Analysis D	Date: 5/2	25/2023	5	SeqNo: 35	519456	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	43	9.6	47.76	0	89.1	54.2	135	2.44	29.2	
Surr: DNOP		4.8		4.776		99.9	69	147	0	0	
Sample ID:	LCS-75133	SampT	ype: LC	s	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	LCSS	Batch	n ID: 751	33	F	RunNo: 97	7001				
Prep Date:	5/23/2023	Analysis D	Date: 5/2	24/2023	S	SeqNo: 35	519507	Units: %Rec	:		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		6.2		5.000		124	69	147			
Sample ID:	LCS-75146	SampT	ype: LC	s	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	LCSS	Batch	n ID: 751	46		RunNo: 97			Ũ	0	
Prep Date:	5/24/2023	Analysis D	Date: 5/2	24/2023	ç	SeqNo: 35	519508	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
,	Organics (DRO)	45	10	50.00	0	90.6	61.9	130	, or a - 2		4444
Surr: DNOP		5.0		5.000		100	69	147			
Sample ID:	MB-75133	SampT	уре: МВ	LK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	PBS	Batch	n ID: 751	33	F	RunNo: 97	7001		-	-	
Prep Date:	5/23/2023	Analysis D	Date: 5/2	24/2023	S	SeqNo: 35	519510	Units: %Rec	:		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		9.5		10.00		94.9	69	147			
Sample ID:	MB-75146	SampT	уре: МВ	LK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Rance	Organics	
Client ID:	PBS		n ID: 751			RunNo: 97					
Prep Date:	5/24/2023	Analysis D				SeqNo: 35		Units: mg/K	g		
Analyte		Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	Organics (DRO)	ND	10	5111 10100	Si ttitoi vai	, oi (E O	Lonennit		, D		a di di
-	ge Organics (MRO)	ND	50								

Qualifiers:

- Value exceeds Maximum Contaminant Level. *
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S

Released to Imaging: 7/31/2023 10:26:11 AM

- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Sample pH Not In Range
- Р RL

2305A97

30-May-23

Client: Project:		non Oil Comj rt West 19 Fe	•	ТВ Н							
Sample ID:	MB-75146	SampT	ype: ME	BLK	Tes	tCode: EF	A Method	8015M/D: Die	sel Range	Organics	
Client ID:	PBS	Batch	n ID: 75 ′	146	F	RunNo: 97	7001				
Prep Date:	5/24/2023	Analysis D	ate: 5/ 2	24/2023	S	SeqNo: 35	519511	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		11		10.00		106	69	147			

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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2305A97

30-May-23

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	Marathon Shugart W	-	•	ТВ Н							
Sample ID:	mb-75132	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Range	l	
Client ID:	PBS	Batch	ID: 751	132	F	RunNo: 97	7020				
Prep Date:	5/23/2023	Analysis D	ate: 5/ 2	25/2023	S	SeqNo: 3	521524	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	ND	5.0								
Surr: BFB		900		1000		90.2	15	244			
Sample ID:	lcs-75132	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015D: Gaso	line Range	!	
Client ID:	LCSS	Batch	ID: 751	132	F	RunNo: 97	7020				
Prep Date:	5/23/2023	Analysis D	ate: 5/2	25/2023	S	SeqNo: 3	521525	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	20	5.0	25.00	0	81.5	70	130			
Surr: BFB		1900		1000		190	15	244			
Sample ID:	2305A97-001ams	SampT	ype: MS	;	Tes	tCode: EF	PA Method	8015D: Gaso	line Range	1	
Client ID:	SS06D-0'	Batch	ID: 751	132	F	RunNo: 9 7	7020				
Prep Date:	5/23/2023	Analysis D	ate: 5/2	25/2023	5	SeqNo: 3	521527	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	21	4.8	23.95	0	86.8	70	130			
Surr: BFB		2000		957.9		204	15	244			
Sample ID:	2305A97-001amsd	SampT	ype: MS	D	Tes	tCode: EF	PA Method	8015D: Gaso	line Range		
Client ID:	SS06D-0'	Batch	ID: 751	132	F	RunNo: 97	7020				
Prep Date:	5/23/2023	Analysis D	ate: 5/2	25/2023	S	SeqNo: 3	521528	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	22	4.8	24.25	0	89.8	70	130	4.74	20	
Surr: BFB		1900		969.9		201	15	244	0	0	

Qualifiers:

- Value exceeds Maximum Contaminant Level. *
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

2305A97

30-May-23

Client:	Marathon	Oil Com	pany								
Project:	Shugart V	West 19 Fe	ederal C	СТВ Н							
Sample ID:	mb-75127	SampT	уре: МІ	BLK	Tes	tCode: El	PA Method	8021B: Volatil	les		
Client ID:	PBS		n ID: 75			RunNo: 9					
Prep Date:	5/23/2023	Analysis E				SeqNo: 3		Units: %Rec			
Analyte		Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	nofluorobenzene	0.86	ΓQL	1.000		86.1	39.1	146	7011 D		Quai
Completio	1	Come			Tee			0004D V-1-1			
-	lcs-75127		ype: LC					8021B: Volatil	les		
Client ID:	LCSS		n ID: 75			RunNo: 9					
Prep Date:	5/23/2023	Analysis E	Date: 5/	25/2023	:	SeqNo: 3	520528	Units: %Rec			
Analyte		Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bror	nofluorobenzene	0.87		1.000		86.5	39.1	146			
Sample ID:	mb-75132	SampT	ype: MI	BLK	Tes	tCode: El	PA Method	8021B: Volatil	les		
Client ID:	PBS	Batcl	n ID: 75	132	F	RunNo: 9	7020				
Prep Date:	5/23/2023	Analysis E	Date: 5/	25/2023	\$	SeqNo: 3	521548	Units: mg/K	g		
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-Bror	nofluorobenzene	0.86		1.000		86.2	39.1	146			
Sample ID:	lcs-75132	SampT	ype: LC	s	Tes	tCode: El	PA Method	8021B: Volatil	les		
Client ID:	LCSS	Batcl	n ID: 75	132	F	RunNo: 9	7020				
Prep Date:	5/23/2023	Analysis E	Date: 5/	25/2023	S	SeqNo: 3	521549	Units: mg/Kg	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.87	0.025	1.000	0	86.9	70	130			
Toluene		0.87	0.050	1.000	0	87.1	70	130			
Ethylbenzene		0.86	0.050	1.000	0	85.6	70	130			
Xylenes, Total	l	2.6	0.10	3.000	0	85.1	70	130			
Surr: 4-Bror	nofluorobenzene	0.87		1.000		86.8	39.1	146			
Sample ID:	2305A97-002ams	SampT	ype: M	S	Tes	tCode: El	PA Method	8021B: Volatil	les		
Client ID:	SS07B-0'	Batcl	n ID: 75	132	F	RunNo: 9	7020				
Prep Date:	5/23/2023	Analysis E	Date: 5/	25/2023	\$	SeqNo: 3	521552	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.81	0.024	0.9775	0	83.4	70	130			
Toluene		0.83	0.049	0.9775	0	85.0	70	130			
Ethylbenzene		0.83	0.049	0.9775	0	84.6	70	130			
Xylenes, Total	l	2.5	0.098	2.933	0	83.8	70	130			
•											

Qualifiers:

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PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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30-May-23

2305A97

	n Oil Com West 19 Fe	1 2	ТВ Н							
Sample ID: 2305A97-002ams	Samp	Type: MS	;	Tes	tCode: EF	PA Method	8021B: Volati	iles		
Client ID: SS07B-0'	Batc	h ID: 75 1	32	F	RunNo: 97	7020				
Prep Date: 5/23/2023	Analysis [Date: 5/ 2	25/2023	S	SeqNo: 3	521552	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.86		0.9775		87.7	39.1	146			
Sample ID: 2305A97-002amso	I Samp	Type: MS	D	Tes	tCode: EF	PA Method	8021B: Volati	iles		
Sample ID: 2305A97-002amso Client ID: SS07B-0'	•	Type: MS h ID: 75 1			tCode: EF RunNo: 97		8021B: Volati	iles		
	•	h ID: 75 1	32	F		7020	8021B: Volati Units: mg/K			
Client ID: SS07B-0'	Batc	h ID: 75 1	132 25/2023	F	RunNo: 97	7020			RPDLimit	Qual
Client ID: SS07B-0' Prep Date: 5/23/2023	Batc Analysis [h ID: 75 1 Date: 5/ 2	132 25/2023	F	RunNo: 97 SeqNo: 3	7020 521553	Units: mg/K	íg	RPDLimit 20	Qual
Client ID: SS07B-0' Prep Date: 5/23/2023 Analyte	Batc Analysis I Result	h ID: 75 1 Date: 5/ 2 PQL	1 32 2 5/2023 SPK value	F S SPK Ref Val	RunNo: 97 SeqNo: 38 %REC	7020 521553 LowLimit	Units: mg/K HighLimit	íg %RPD		Qual
Client ID: SS07B-0' Prep Date: 5/23/2023 Analyte Benzene	Batc Analysis I Result 0.83	h ID: 75 1 Date: 5/ 2 PQL 0.024	1 32 25/2023 SPK value 0.9718	F SPK Ref Val 0	RunNo: 97 SeqNo: 38 %REC 85.4	7020 521553 LowLimit 70	Units: mg/K HighLimit 130	5g %RPD 1.82	20	Qual
Client ID: SS07B-0' Prep Date: 5/23/2023 Analyte Benzene Toluene	Batc Analysis I Result 0.83 0.85	h ID: 75 1 Date: 5 /2 PQL 0.024 0.049	32 25/2023 SPK value 0.9718 0.9718	F SPK Ref Val 0 0	RunNo: 97 SeqNo: 38 %REC 85.4 87.5	7020 521553 LowLimit 70 70	Units: mg/K HighLimit 130 130	5g %RPD 1.82 2.31	20 20	Qual

Qualifiers:

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- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 11 of 11

2305A97

30-May-23

HALL ENVIRO ANALYS LABOR		AL .	TE.	l Environmen L: 505-345-3 Vebsite: www	490 Albuquero 1975 FAX:	01 Hawl que. NM 505-34	kins NE 1 87109 15-4107	Sa	mple Log-In Ch	eck List
Client Name:	Marathon O	il Company	Work	Order Num	ber: 230	5A97			RcptNo: 1	
Received By:	Tracy Cas	arrubias	5/20/20	23 9:30:00	AM					
Completed By:	Tracy Cas	arrubias	5/20/20	23 11:06:39	AM					
Reviewed By:	m 5/2	2/23								
Chain of Custo						_				
1. Is Chain of Cus	stody compl	ete?			Yes		1	lo 🗹	Not Present	
2. How was the sa	ample delive	ered?			<u>Cou</u>	rier				
Log In 3. Was an attemp	ot made to c	ool the sampl	es?		Yes		٨	lo 🗌		
4. Were all sample	es received	at a temperat	ure of >0° C	to 6.0°C	Yes		Ν	lo 🗌	NA 🗌	
5. Sample(s) in pr	roper contai	ner(s)?			Yes		٨	lo 🗌		
6. Sufficient samp	le volume fo	or indicated te	st(s)?		Yes		N	• 🗌		
7. Are samples (ex	xcept VOA a	and ONG) pro	perly preserve	ed?	Yes	\checkmark	N	•		
8. Was preservation	ve added to	bottles?			Yes		Ν	o 🗹	NA 🗋	
9. Received at lea	ist 1 vial with	n headspace ·	<1/4" for AQ V	'OA?	Yes			• 🗆	NA 🗹	
10. Were any sam	ple containe	rs received b	roken?		Yes		Ν	lo 🗹	# of preserved bottles checked	
11. Does paperwork (Note discrepan			ŀ		Yes		N	o 🗌		12 unless noted)
12. Are matrices co	prrectly iden	ified on Chair	of Custody?		Yes		N		Adjusted?	
13. Is it clear what a			?		Yes		N	r		1 5/20/17
14. Were all holding (If no, notify cus	-				Yes		N	• ⊔	Checked by: TM	AL STRICT
<u>Special Handlir</u>	ng (if app	licable)								
15. Was client noti	ified of all di	screpancies v	vith this order?	>	Yes		Ν	lo 🗌	NA 🗹	
Person N				Date	:]				r	
By Whon	2			Via:	☐ eM	ail 📋	Phone	🔄 Fax	In Person	
Regardin	-				10 5 1001	22				
16. Additional rem		Mailing addre	ss is missing	on COC- Th	VIC 5/20/	23				
Client die	d not relinqu	ish chain of c	ustody							
17. <u>Cooler Inform</u>				ŧ					ī	
Cooler No	Temp ⁰C 5.3	Condition	Seal Intact	Seal No	Seal D	ate	Signe	d By	-	
L	J.J	Good	Yes	Yogi						

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HALL ENVIRONME WERE 07 88	ANALYSIS LABORATORY	www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107	Analysis Request	OS E	'*O	а '²(S02	н) L 85	/0/ 'E(s E 0 0	bor 1915 1917 1917 1917 1917	11=11 8 M 8 J 7O 10 10 10 10 10 10 10 10 10 10 10 10 10	8081 P EDB (<i>l</i> RCRA CI, F, 1 8260 (<i>l</i> 8270 (<i>l</i> 70tal C	4	+	7	×			Remarks: Please cc msanjari@marathonoil.com, agiovengo@ensolum.com	and courton@ensolum.com on results	This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
			49	Ĕ		_			_			_	TPH:80	オメ	イナ	ナナ	ナナ	ナナ		Remar agiovel	and co	y sub-cont
7.61.10-6	K Rush 5 Davy	Shugart West 19 Federal CTB H	Shugart West 19 Federal 8/Shugart West 19 Federal 9	03A2040004	0029588000	Ashley Giovengo	575-988-0055	agiovengo@ensolum.com	Giovengo	Reves DNo word		5.4-0.1: 5.3-	Type	Carety	Ice CO2	Ice 003	Ice OOL			Date Time	S/20/23	redited laboratories. This serves as notice of this possibility. Any
Turn-Around Time:	Standard		Shugart West 19 F	Project #: (MO Cost Center: 6	Project Manager: /		5	Sampler:	On Ice:	# of Coolers:	Cooler Temp(Including CF):	Container Type and #	1 jar	1 jar	1 jar	1 jar	1 jar		Received by: Via:	Received by: Via:	tracted to other accreaned is
Received @ helint to full us hooding Record	mpany					msaniari@marathonoil.com		Level 4 (Full Validation)	Az Compliance	9L			sample Name		SS07B-0'	SS08C-0'	,0-60SS	SS10-0'		Relinquished by:	Relinquished by:	If necessary, samples submitted to Hall Environmental may be subcontracted to other acc
p@d	n Oil Co		On File		-8753	msanja			□ Az C				Matrix	ဟ	S	ပ	ပ	ပ		Relinqui	Relinqui	l VV
en nue	Marathon Oil Company	njari	ress:		575-988-8753	ŧ	ade:		:u		pe)		Time	15:28	12:05	15:41	10:23	10:29		Time:	Time:	essary, sam
Received & D	Client:	Melodie Sanjari	Mailing Address:		Phone #:	L CD	QA/QC Package:	A Standard	Accreditation:				Date	023	5/17/2023	5/17/2023	5/17/2023	5/17/2023		Date: 05/19/2023	Date;	If nece

Doloucod to Innovino: 7/21/2022 10.96.11 AM



June 20, 2023

Melodie Sanjari Marathon Oil Company 4111 Tidwell Road Carlsbad, NM 88220 TEL: (575) 297-0956 FAX

RE: Sugart West 19 Federal CTB H (Shugart West 19)(Federal 8/Federal 9) OrderNo.: 2306489

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Melodie Sanjari:

Hall Environmental Analysis Laboratory received 1 sample(s) on 6/9/2023 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Project:

Lab ID:

Analyses

Analytical Report Lab Order 2306489

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/20/2023 **CLIENT:** Marathon Oil Company Client Sample ID: SS03C-0' Sugart West 19 Federal CTB H Collection Date: 6/2/2023 9:30:00 AM 2306489-001 Matrix: SOIL Received Date: 6/9/2023 7:45:00 AM Result **RL** Qual Units DF **Date Analyzed** EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: PRD **Diesel Range Organics (DRO)** ND 9.9 mg/Kg 1 6/13/2023 11:47:08 AM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 6/13/2023 11:47:08 AM Surr: DNOP 101 69-147 %Rec 1 6/13/2023 11:47:08 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP 6/14/2023 9:55:57 PM Gasoline Range Organics (GRO) ND 4.9 mg/Kg 1 Surr: BFB 103 15-244 %Rec 1 6/14/2023 9:55:57 PM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Л

Chloride	ND	59	mg/Kg	20	6/15/2023 1:19:15 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Surr: 4-Bromofluorobenzene	89.7	39.1-146	%Rec	1	6/14/2023 9:55:57 PM
Xylenes, Total	ND	0.099	mg/Kg	1	6/14/2023 9:55:57 PM
Ethylbenzene	ND	0.049	mg/Kg	1	6/14/2023 9:55:57 PM
Toluene	ND	0.049	mg/Kg	1	6/14/2023 9:55:57 PM
Benzene	ND	0.025	mg/Kg	1	6/14/2023 9:55:57 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range Reporting Limit

RL

Page 1 of 5

*

Client: Project:		hon Oil Comp West 19 Fede	•	B H							
Sample ID:	MB-75617	SampT	/pe: ME	BLK	Tes	Code: El	PA Method	300.0: Anion	s		
Client ID:	PBS	Batch	ID: 75	617	R	unNo: 9	7494				
Prep Date:	6/15/2023	Analysis Da	ate: 6/	15/2023	S	eqNo: 3	542499	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								

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- RL Reporting Limit

2306489

20-Jun-23

	thon Oil Com rt West 19 Fee		Ъ Н									
Sample ID: LCS-75540	Samp	Type: LC	s	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batc	h ID: 75	540	F	RunNo: 9	7392						
Prep Date: 6/12/2023	Analysis I	Date: 6/	13/2023	S	SeqNo: 3	538144	Units: mg/k	(g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	47	10	50.00	0	94.0	61.9	130					
Surr: DNOP	5.0		5.000		99.8	69	147					
Sample ID: MB-75540	Samp	Туре: МЕ	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics			
Client ID: PBS	Batc	h ID: 75	540	F	RunNo: 9	7392						
Prep Date: 6/12/2023	Analysis [Date: 6/	13/2023	S	SeqNo: 3	538146	Units: mg/#	(g				
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	9.3		10.00		93.0	69	147					

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- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits

2306489

20-Jun-23

WO#:

Р Sample pH Not In Range

RL Reporting Limit

	on Oil Comp Vest 19 Fed		ЪΗ							
Sample ID: Ics-75536	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch	n ID: 75	536	F	RunNo: 9	7399				
Prep Date: 6/12/2023	Analysis D	Date: 6/	13/2023	SeqNo: 3538745 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	99.8	70	130			
Surr: BFB	2100		1000		208	15	244			
Sample ID: mb-75536	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batch	n ID: 75	536	F	RunNo: 9	7399				
Prep Date: 6/12/2023	Analysis D	0ate: 6/	13/2023	S	SeqNo: 3	538746	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	970		1000		97.4	15	244			

Qualifiers:

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WO#:	2306489
	20-Jun-23

Page 4 of 5

	larathon Oil Com									
Project: Si	ugart West 19 Fe	deral CI	ВН							
Sample ID: LCS-7553	ID: LCS-75536 SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Bate	Batch ID: 75536			RunNo: 97399					
Prep Date: 6/12/202	3 Analysis	Date: 6/	13/2023	SeqNo: 3538747		Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.80	0.025	1.000	0	79.8	70	130			
Toluene	0.81	0.050	1.000	0	81.3	70	130			
Ethylbenzene	0.81	0.050	1.000	0	81.0	70	130			
Xylenes, Total	2.5	0.10	3.000	0	81.9	70	130			
Surr: 4-Bromofluorobenze	ne 0.91		1.000		91.2	39.1	146			
Sample ID: mb-75536	Samp	SampType: MBLK TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Bate	ch ID: 75	ID: 75536 RunNo: 97399							
Prep Date: 6/12/202	3 Analysis	Date: 6/	13/2023	SeqNo: 3538748			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-Bromofluorobenze	ne 0.85		1.000		85.4	39.1	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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

WO#: 2306489 20-Jun-23

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Alb. TEL: 505-345-3975	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: Marathon Oil Company	Work Order Number	2306489		RcptNo	: 1			
Received By: Juan Rojas	6/9/2023 7:45:00 AM		Wanks &					
Completed By: Cheyenne Cason	6/9/2023 8:49:00 AM		Chul					
Reviewed By:								
Chain of Custody								
1. Is Chain of Custody complete?		Yes 🗹	No 🗌	Not Present				
2. How was the sample delivered?		<u>Client</u>						
Log In 3. Was an attempt made to cool the samples?	•	Yes 🗹	No 🗌	NA 🗆				
 Were all samples received at a temperature 		Yes 🔽	No 🗌	NA 🗌				
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗌					
6. Sufficient sample volume for indicated test(5)?	Yes 🔽	No 🗌					
7. Are samples (except VOA and ONG) proper		Yes 🗹	No 🗌					
8. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗌	/			
9. Received at least 1 vial with headspace <1/	4" for AQ VOA?	Yes 🗌	No 🗌	NA 🗹	19cm			
0. Were any sample containers received broke	en?	Yes 🗌	No 🗹	# of preserved	Nologh			
1. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗌	bottles checked for pH:	r >12 unless noted)			
2. Are matrices correctly identified on Chain of	Custody?	Yes 🗹	No 🗌	Adjusted?				
3. Is it clear what analyses were requested?		Yes 🗹	No 🗌					
4. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🗌	Checked by:				
Special Handling (if applicable)				/				
15. Was client notified of all discrepancies with	this order?	Yes 🗌	No 🗌	NA 🗹				
Person Notified:	Date:		the state of the s					
By Whom:	Via: [eMail	Phone 🗌 Fax	🗌 In Person				
Regarding:								
Client Instructions:								
16. Additional remarks:								
17. <u>Cooler Information</u> Cooler No Temp ºC Condition S	Seal Intact Seal No	Seal Date	Signed By					
	Seal Intact Seal No Soft Present Yogi	Seal Date	Signed by					

Released to Imaging: 7/31/2023 10:26:11 AM

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 HALL ENVIRONMENTAL ANALYSIS LABORATOR ANALYSIS LABORATOR www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 7el. 505-345-3975 Fax 505-345-4107 7el. 505-345-3975 Request 	BTEX MTBE / TMB's (8021) TPH:8015D(GRO / DRO / MRO) 8081 Pesticides/8082 PCB's PAHs by 8310 or 8270SIMS RCRA 8 Metals CI, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄ 8260 (VOA) 8260 (VOA) 8270 (Semi-VOA) 70tal Coliform (Present/Absent)	X X X X X X X X X X X X X X X X X X X	Date Time we cover govern SOL N.N
Turn-Around Time: X Standard Kush (50ay) Project Name: Shugart West 19 Redrul (7BH, (Shugart West 19) Project #: 03A104004 Project (auter: 0029537000	Project Manager: ASh (ey Gravergo S75-988-0055 29 jovengo @eusolum.com sampler: Dmitry Micawar On Ice: Eves DNO # of Coolers: Dres DNO Cooler Temp(Including cF): 0.7-0.0.1 (°C) Container Preservative HEAL No. Type and # Type 2306489	The colling	
Chain-of-Custody Record Client: Marathou Dil Company Melodie Sansari Mailing Address: Du File	ax#: M SQ h JQ Y (20) ckage: ard Level tion: _ Az Compliance Cype) Other fype)	23 () % 30	Date: Time: Relinquished by: U U U U U U U

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

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	243502
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
jharimon	None	7/31/2023

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Action 243502