

Couvillion Group, LLC MC-20 Hydrocarbon Pump-Off #68 Results Report

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Revision	Date	Ву	Check	Approve	Remarks
0	1/14/2025				Initial
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Summary:

Couvillion Group's Rapid Response Collection System initiated its sixty-eighth collection cycle on 11/3/2024 at 13:40 and completed the cycle on 12/12/2024 at 14:26 resulting in a collection duration of 39.0 days. Using the OSV Brandon Bordelon the collected hydrocarbon fluid that was recovered from the subsea oil containment vessels was taken to the Couvillion Dock in Port Fourchon, Louisiana. Vessel to Dockside Transfer commenced on 12/14/2024, with 673.9 bbl of hydrocarbon fluids transferred to onshore frac tanks 1-3 according to NRC frac tank strapping.

On 1/6/2025, Couvillion Group confirmed the initial measurement of 673.9 bbl of hydrocarbon fluids in frac tanks 1-3 via strap measurements. After a confirmation measurement was recorded, the decanting process began. From frac tanks 1-3, a total of 42.3 bbl of water was decanted on 1/6/2025, and 3.9 bbls of water was decanted on 1/7/2025. This 46.2 bbl of water was sent to the fourth frac tank for disposal at a later time. A gross total of 611.8 bbl of fluids according to NRC strapping measurements was sent to Acadiana Oil using tank trucks from frac tanks 1-3. After temperature and BS&W deductions a net total of 596.6 bbl of oil was transferred from tanks 1-3 in the Port Fourchon yard to the Acadiana Oil Company.

Procedures Followed:

Couvillion Group and the associated companies participating in the collection and transportation of hydrocarbon fluids from the MC-20 site to the Acadiana Oil Company site have compiled a set of procedures that are followed throughout the process. The MC-20 Response Disposal Plan with associated documentation pertaining to custody transfer and hydrocarbon fluids measurements for this report are in Appendix I. Appendix II includes the NRC waste handling documentation.

Execution:

Offshore Collection of Hydrocarbon Fluids at MC-20 Site:

The Brandon Bordelon OSV moved in place on location at MC-20 on 12/11/2024 at 21:40 hrs. An asfound ROV survey was conducted prior to commencement of pump off operations. To begin pump off operations ROV's were launched and thereafter the hydraulic subsea pump and hoses were over boarded. The inlet hose to the hydraulic subsea pump was connected to the offload outlet on the subsea oil storage containers. On 12/12/2024 the ATI/BTI were closed at 14:26, marking the end of the 68th collection cycle. Pumping commenced at 22:27 on 12/12/2024 and ended at 05:54 on 12/13/2024. Fluids were sampled on the vessel every 20 minutes for field analysis to determine the estimated oil to water ratios until water breakthrough occurred and collection operations were then stopped. **A total of 677.7 bbl of hydrocarbon fluid was collected according to the tank strap measurement taken offshore.** Upon pump off completion the hoses and pump were surfaced and flushed with saltwater that was sent to a filtration system for treatment and over boarding.

Vessel to Dockside Transfer

The Brandon Bordelon arrived at the Couvillion Dock in Port Fourchon, Louisiana on 12/14/2024. On the morning of 12/14/2024 hoses were run from the tanks on the vessel through a diaphragm pump and then run to 500 bbl frac tanks. The pump-off process was begun and continued until all MPT tanks aboard the Brandon Bordelon were empty. Tankermen from Team Services verified that the MPT tanks onboard the vessel were emptied, then an NRC representative strapped the dockside frac tanks to determine **the total quantity transferred which was 673.9 bbl.** With the dockside transfer complete, the fluid was allowed to settle out water from the oil over a period of time before the transfer of the oil from the frac tanks to tank trucks.

Dockside Frac Tanks to Truck Transfers

On the morning of 1/7/2025 at 07:00 hrs the first round of frac tanks to tank truck transfers commenced. A hose was attached to the frac tank and ran through a diaphragm pump into a tank truck. Pumping commenced and the first truck received 157.6 bbls, and the second truck received 165.4 bbls of hydrocarbon fluids. The second day of truck transfers began on 1/8/2025 at 07:00. The third truck received 164.3 bbls, and the final truck of Pumpoff 68 received 124.5 bbls of hydrocarbon fluids. There was a total of 15.9 bbls of residual fluids which remained in frac tanks 1-3 and was later pumped into tank 4. All values were recorded in the appropriate forms in the MC-20 Response Disposal Plan (see report Appendix I). Total fluid reconciliation for frac tanks 1-3 was within 0.0%.

Truck to Facility Transfer

Upon arrival at the Acadiana Oil Company site each truck enters a loading bay. Before any fluids are transferred an Acadiana Oil Representative straps their tank for an initial measurement and then transfer of fluid begins. While the pump off is underway an Acadiana Oil Company Representative takes three fluid samples during the transfer process from the pump outlet from which hydrocarbon fluid is flowing. These samples are taken at the beginning of the transfer, mid-way through the transfer, and at the end of the transfer process to ensure a full mixture. The sample is then taken to their testing area where tests are run to determine: % BS&W content, temperature, and specific gravity. Temperature and specific gravity are recorded via the use of a hydrometer, while BS&W content is determined via the use of a centrifuge with a 50/50 mixture of the sample with mineral spirits. Once all sampling is completed and recorded (see copy in Appendix I) the Acadiana Oil Company Representative again straps their tank to obtain a post transfer level. The gross fluids that are recorded is determined by subtracting the initial pump off tank strap level from the post transfer tank strap level. This gross fluid value is corrected for temperature, specific gravity, and BS&W content to determine the net oil value that is recorded. This process is repeated for each truck offload.

Summary Tally and Running Totals:

The tables below show an oil tally, a total fluid reconciliation, and a flow rate calculation. In total 673.9 bbls of hydrocarbon fluid was transferred from the Brandon Bordelon into an onshore frac tank. Tank trucks transported a gross total of 611.8 bbl to Acadiana Oil Company, which netted out to a total of 596.6 bbl. From a total fluid reconciliation standpoint, measurements at different site locations were within 0.0% for frac tanks 1-3. The calculated flow rate during the 39.0-day collection cycle offshore was 15.3 bbl/day or 642.6 gal/day. Monthly pump off collection rates reflects collection rates which are not inclusive of product that remains in the residual tank. This causes monthly collection rates to appear slightly lower than the historic average. As of the end of this pump off campaign 1,707,350.4 gallons of salvaged crude oil have been contained from the MC-20 site.

Oil Tally

									- 10		J											
Oil Tally	Date	Total Fluid	Total Fluid		Truck 1 Total Fluids	Total Fluid	$\overline{}$		Truck 2 Total Fluids	Total Fluid			Truck 3 Total Fluids	Total Fluid		-	Truck 4 Total Fluids	Total Fluid	$\overline{}$	-	Total	Running Total
Oli Tally	Date	Transfer	Frac	%	to Acadiana	at	%	Net	to Acadiana	at	%	Net	to Acadiana	at	%	Net	to Acadiana	at	%	Net	Net	Net
		by	Tank Strap		NRC Frac	Acadiana			NRC Frac	Acadiana			NRC Frac	Acadiana			NRC Frac	Acadiana			1	
		Legends	by NRC	Diff	Strap	by strap	Diff	Oil	Strap	by strap	Diff	Oil	Strap	by strap	Diff	Oil	Strap	by strap	Diff	Oil	Oil	Oil
2 255 114	1/25/2010	(bbl)	(bbl)		(bbl)	(bbl)	$\vdash \vdash$	(bbl)	(bbl)	(bbl)		(bbl)	(bbl)	(bbl)		(bbl)	(bbl)	(bbl)	₩	(bbl)	(bbl)	(bbl)
Pump Off #1	4/26/2019 5/6/2019	220.0	215.7	-2.0	113.7	110.0	3.3	108.8	97.0	87.4	9.9	78.6				1 1		l			187.4	187.4
Pump Off #2	5/3/2019	246.3	223.5	-10.2	113.7	110.0	5.5	100.0	37.0	07.4	5.5	70.0							\vdash	\vdash	107.4	107.4
	5/8/2019				101.3	102.0	-0.7	99.7	82.8	83.8	-1.2	81.9						L			181.6	369.0
Pump Off #3	5/13/2019	335.0	331.2	-1.1																		
2 255 114	5/16/2019	004 7	005.5		103.2	89.1	13.7	82.9	126.4	136.4	-7.9	132.1	108.5	99.5	8.3	80.7	\longmapsto		₩	\vdash	295.7	664.8
Pump Off #4	6/19/2019 6/20/2019	901.7	905.5	0.4	139.4 137.7	145.8 136.2	-4.6 1.1	143.0 113.0	138.7 140.7	139.4 141.4	-0.5 -0.5		140.6	141.4	-0.6	134.2	144.1	141.4	1 0	138.4	1	
	6/21/2019				48.5	47.1	2.8	44.6	140.7	141.4	0.5	155.4	140.0	141.4	0.0	154.2	144.1	141.4	1.5	130.4	850.0	1,514.8
Pump Off #5	7/31/2019	1200.2	1196.6	-0.3	139.2	138.3	0.6	133.7	142.7	150.0	-5.1	146.5										, ,
	8/1/2019				139.1	145.7	-4.7	135.1	140.7	138.4	1.6		146.0	142.0	2.7	81.3	138.0	142.0	-2.9	140.0	1	
2 255 115	8/2/2019	040.0	074.6		99.8	112.9	-13.1	111.0	101.1	105.6	-4.5	104.2	444.5	445.7		1122	\longmapsto		₩	\vdash	983.7	2,498.5
Pump Off #6	8/26/2019 8/27/2019	848.0	874.6	3.0	141.7 140.5	138.4 138.4	2.3 1.5	134.6 135.5	140.3 137.2	145.7 142.0	-3.8 -3.5	140.6 139.1	141.5 61.3	145.7 65.6	-3.0 -7.0	143.2 64.2		l			1	
	0,2,,2015				110.5	150.1	1.5	100.0	157.12	112.0	5.5	100.1	01.5	03.0	7.0	012		l			757.2	3,255.7
Pump Off #7	9/23/2019	891.9	880.4	-1.3	138.0	134.7	2.4	132.4	144.3	151.8	-5.2	148.9	142.6	142.0	0.4	139.7						
	9/24/2019				144.4	142.0	1.7	139.1	143.7	138.4	3.7	135.5	55.3	54.6	1.3	53.7	\longmapsto		ш	<u> </u>	749.3	4,005.0
Pump off #8	10/21/2019	790.9	787.4	-0.4	142.0	434.0		120.1	454.2	454.0	4.5	140.7	1110	126.2	- 4	424.2		l			1	
	10/22/2019 10/23/2019				143.9 137.7	131.0 141.4	9.0 -2.7	129.1 139.2	154.3 130.0	151.9 125.7	1.5 3.3	149.7 123.6	144.0	136.2	5.4	134.2	i l	l		l '	1	
Residual Tank	10/23/2019	 	205.1	 	157		==	155.2		125.7	5.5	125.0	125.4	125.7	-0.2	123.6	lt		1	r	799.4	4,804.4
Pump off #9	11/11/2019	772.3	757.8	-1.9																		
	11/19/2019				142.3	156.5	-10.0	153.6	143.8	131.0	8.9	128.8	145.3	142.0	2.3	139.9		l			1	1
	11/20/2019	040.7	040.0		145.6	145.6	0.0	143.6	92.1	94.6	-2.8	93.3	446.4	445.7	0.5	<u> </u>	\longmapsto		\sqcup	┝	659.1	5,463.5
Pump off #10	12/17/2019 12/18/2019	940.7	942.8	0.2	142.0 146.4	138.4 138.4	2.5 5.5	136.9 136.8	71.4 144.3	69.2 145.7	3.1 -1.0	68.5 144.4	146.4 144.0	145.7 142.0	0.5 1.4	144.2 140.8	47.4	47.4	0.0	47.0	818.6	6,282.1
Pump off #11	1/9/2020	697.7	691.0	-1.0	128.7	131.1	-1.9	128.3	128.0	131.1	-2.4	129.3	129.8	131.1	-1.0	129.6	77.7	77.7	0.0	47.0	010.0	0,202.1
	1/10/2020	<u> </u>		L	79.4	91.0	-14.6	90.0	92.6	91.1	1.6	90.0		L		LJ	L	L	<u> </u>	L'	LJ	
Residual Tank	1/8/2020				141.9	142.0	-0.1	140.0								igsquare			Ш		707.2	6,989.3
Pump off #12	2/12/2020	725.4	722.5	-0.4	120.8	123.8	-2.5	115.8	102.1	101.9	0.2	100.4	99.0	101.9	-2.9	97.5		l			1	
Residual Tank	2/13/2020 2/17/2020	 		 	149.5 108.2	160.2 105.6	-7 2.4	154 101.3	114.2	101.92	10.8	61.1	 -			┟┦	├ -		\vdash	├	630.1	7,619.4
Pump off #13	3/11/2020	583.7	570.2	-2.4	100.2	103.0	2.4	101.5											\vdash		030.1	7,013.4
	3/12/2020				114.5	115.2	-0.6	112.7	138.3	136.2	1.5	134.3				1 1		l			1	
	3/13/2020				93.6	94.3	-0.7	91.9	120.0	120.4	-0.3	117.5				igsquare			Ш		456.4	8,075.8
Pumpoff #14	4/16/2020	966.7	928.8	-4.1	147.2	146.5	0.5	144.6	145.2	141.2	2.8	139.4	148.0	146.5	1.0	143.7		l				
Residual Tank	4/17/2020 4/14/2020	 		 	144.9 149.9	146.5 151.9	-1.1 -1.3	144.3 132.3	144.1	141.2	2.0	139.1	87.4	88.9	-1.7	87.3	├ -		∤ -∤	├	798.4 132.3	9,006.5
Pump off #15	5/7/2020	798.4	783.1	-1.9	150.3	145.8	3.0	143.4	148.0	153.1	-3.4	149.4	145.2	142.1	2.1	138.7			\vdash		132.3	3,000.3
	5/8/2020				147.2	149.4	-1.5	147.6	131.7	131.2	0.4	128.6									707.7	9,714.2
Pump off #16	5/28/2020	598.8	583.3	-2.7	142.1	140.3	1.3	137.5														
2 ((11.7	5/29/2020	070.4	055.0		138.0	138.5	-0.4	134.1	135.1	134.8	0.2	131.7	115.0	116.6	-1.4	109.7	\longmapsto		₩	\vdash	513.0	10,227.2
Pumpoff #17	7/8/2020 7/9/2020	970.1	956.3	1.4	149.1	149.9	-0.5	146.8	148.8	145.5	2.2	142.5	149.2	149.9	-0.5	146.8		l			1	
	7/10/2020				150.7	149.6	0.7	146.6	137.1	138.0	-0.7	135.2	119.9	119.0	0.8	116.5		l			834.4	11,061.4
Pumpoff #18	7/22/2020	658.4	642.6	-2.5																		
	7/27/2020				129.9	129.9	0.0	127.8	140.6	140.6	0.0	137.7	138.2	138.2	0.0	135.7	139.8	139.8	0.0	137.5	1	ı
	7/28/2020	 			66.0	66.0	0.0	62.8		440		440.7	 			┟┦		}	 -	├	601.5	11,663.1
Residual Tank Pumpoff #19	7/28/2020 9/1/2020	901.6	886.4	-1.7	128.2	128.2	0.0	125.6	113 135.5	113 135.5	0.0	110.7 132.6				$\vdash \vdash$	\vdash		\vdash	\vdash	110.7	11,773.8
rumpon #15	9/2/2020	301.0	880.4	-1.7	131.2	131.2	0.0	128.3	136.8	136.8	0.0	134.0	134.8	134.8	0.0	132.0	135.9	135.9	0.0	133.0	785.5	12,559.3
	-,, -																					,
Pumpoff #20	9/29/2020	464.2	450.9	-2.9	144.0	140.0	2.8	137.9	143.5	140.0	2.4	137.9										
Desideral Teach	9/30/2020	 		 	85.7	83.0	3.2	81.6					 -			├	-		 		357.4	12,916.7
Residual Tank Pumpoff #21	10/1/2020	620.9	610.1	-1.8	136.5 139.0	131.0 139.0	4.0 0.0	128.6 130.8	145.3	145.0	0.2	142.1		1	H	$\vdash \vdash$	 		\vdash	\vdash	128.6	13,045.3
	10/15/2020	520.5	510.1		147.2	144.0	2.2	142.5	136.0	135.0	0.2	132.9	<u> </u>	<u></u>		L	<u> </u>	L	L I	L	548.3	13,593.6
Pumpoff #22	11/16/2020	685.6	673.2	-1.8	146.5	143.0	2.4	139.7	143.4	142.0	1.0	140.1	146.4	140.0	4.4	128.3	i					
	11/17/2020				133.2	130.0	2.4	124.3	44			40	44	40		425.5	├		ш	<u> </u>	532.4	14,126.0
Pumpoff #23	12/30/2020	781.7	784.3	0.3	146.1	140.0	4.2	137.3	146.8	140.0 111.0	4.6 2.5	138.6 107.2	145.2	137.0	5.6	133.9	i I	l		l '	655.4	14 701 4
Pumpoff # 24	1/27/2021	676.5	663.9	-1.9	145.3 123.9	141.0	3.0	138.4	113.9	111.0	2.3	107.2	1	1		\vdash			\vdash		055.4	14,781.4
	1/28/2021		1 2 2 3 . 3		141.0	*	*	*	140.2	140.0	0.1	137.7	146.8	*	*	*	i I	l		l '	i I	
	2/19/2021	 			146.0	135.0	7.5	133.7	150.7	141.0		139.0	115.3	112.0	2.9	107.05		 	<u> </u>	 	517.5	15,298.9
Residual Tank	2/20/2021			<u> </u>	100.9	101.5	-0.6	96.0	4	4	_			4			 	 	ш	<u> </u>	96.0	15,394.9
Pumpoff #25	3/8/2021 3/9/2021	759.7	738.1	-2.9	144.6 144.1	143.0 140	1.1	140.9 133.9	146.5 77.3	143.0 75.0	2.4 3.0	141.7 70.8	146.0	140.0	4.1	137.4	i I	I		l '	624.7	16,019.5
Pumpoff #26-27	4/21/2021	498.2	472.6	-5.4	144.1	136.2	2.8 5.2	134.8	142.6	75.0 138.6	2.8	137.2	1	1		\vdash			\vdash		1	
	4/22/2021	553.0	544.3	-1.6	123.5	129.7	-5.0	128.0	146.4	146.7	-0.2	146.6	144.1	142.0	1.5	139.9	i I	l		l '	i I	
	4/23/2021	<u> </u>		<u> </u>	<u> </u>	<u> </u>	l	 _	111.4	109.1	2.1	106.3	<u> </u>	<u> </u>	لـــا		<u> </u>	 		L	792.8	16,812.3
Residual Tank	4/23/2021				132.5	131	1.1	127.0								لــــا	└─ ॉ		ш	$igwdow^{1}$	127.0	16,939.3
Pumpoff #28	5/26/2021	716.0	706.1	-1.4	1	140.5	'	425.5		420.0		425.5	442.2	440.4	_	437.0	i I	I		l '	565.0	47.50.5
1	5/27/2021 5/28/2021				144.5 81.1	140.6 78.0	2.7 3.8	136.3 76.1	141.1 88.7	139.0 82.0	1.5 7.6	136.6 78.3	143.3	140.4	2	137.9	i I	l		l '	565.2	17,504.5
	7/14/2021	1		 	01.1	76.0	5.0	/0.1	00.7	62.0	7.0	70.3	1	1		\vdash			\vdash		1	
1	7/15/2021	648.0	631.7	-2.6	114.7	115.3	-0.5	113.8	150.8	149.0	1.2	145.9	119.8	120.2	-0.3	118.5	155.3	151.7	2.3	149.2	527.4	18,031.9
Pumpoff #29	7/13/2021																					
	7/16/2021				<u> </u>		L,									\Box	<u> </u>		\vdash	Щ.	L .	
Pumpoff #29 Pumpoff #30		763.0	750.2	-1.7	115.3 118.5	115.0 118.0	0.3	112.9 115.5	112.6 118.4	111.0 117.0	1.4 1.2	109.0 114.2	106.8 124.3	105.0 123.0	1.7	103.2 118.6			${\sqcap}$		673.4	18705.3

Oil Tally Contd.

					Truck 1				Truck 2				Truck 2				Truck 4					Dunning
Oil Tally	Date	Total Fluid	Total Fluid	1	Truck 1 Total Fluids	Total Fluid			Truck 2 Total Fluids	Total Fluid	ı		Truck 3 Total Fluids	Total Fluid			Total Fluids	Total Fluid	1 1		Total	Running Total
Oli Tally	Date	Transfer	Frac	%	to Acadiana	at	%	Net	to Acadiana	at	%	Net	to Acadiana	at	%	Net	to Acadiana	at	%	Net	Net	Net
		by	Tank Strap	,-	NRC Frac	Acadiana	,-		NRC Frac	Acadiana	,		NRC Frac	Acadiana			NRC Frac	Acadiana	,-			
		Legends	by NRC	Diff	Strap	by strap	Diff	Oil	Strap	by strap	Diff	Oil	Strap	by strap	Diff	Oil	Strap	by strap	Diff	Oil	Oil	Oil
		(bbl)	(bbl)		(bbl)	(bbl)		(bbl)	(bbl)	(bbl)		(bbl)	(bbl)	(bbl)		(bbl)	(bbl)	(bbl)		(bbl)	(bbl)	(bbl)
Pumpoff #31	9/23/2021	616.2	598.4	-3.0	145.6	141.6	2.7	140.0	142.9	142.9	0.0	141.8									530.8	19236.1
- 44	9/24/2021				126.3	123.1	2.5	119.8	138.7	134.3	3.2	129.2										
Pumpoff #32	11/3/2021	952.4	937.1	-1.6	147.8	147.0	0.5	145.5	148.7	148.0	0.5	146.0										í l
	11/4/2021 11/5/2021				152.5 150.2	149.0 147.0	2.3	147.0 144.8	154.6	145.0	6.2	142.2										í l
	11/9/2021				118.8	117.0	1.5	115.4													840.9	20077.0
Pumpoff #33	11/30/2021	787.9	786.2	-0.2	142.9	140.5	1.7	139.5	144.0	140.9	2.2	139.9	149.6	145.3	2.9	143.6					0.000	
	12/1/2021				141.5	138.5	2.1	137.8	130.9	128.0	2.2	127.2									688.0	20765.0
Pumpoff #34	1/6/2022	686.6	673.8	-1.9	149.6	140.5	6.1	138.9	144.0	148.3	-3.0	146.1	152.3	148.5		147.2						
	1/7/2022				86.4	87.0	-0.7	86.3													518.5	21283.5
Pumpoff #35	2/16/2022	564.2	551.9	-2.2	144.1	144.0	0.1	142.7	140.2	136.2	2.9	140.2										í l
Dealder Teals			 -		125.5 94.0	120.0	4.4	118.3	121.8	114.6	5.9	112.3									513.5	24067.4
Residual Tank Pumpoff #36	3/23/2022	690.7	678.5	-1.8	152.5	88.0 148.3	6.4 2.8	70.1 147.4	152.7	147.9	3.1	145.8									70.1	21867.1
rumpon #30	3/23/2022	050.7	078.3	-1.0	148.0	142.1	4.0	141.1	157.6	150.0	4.8	144.6									578.9	22446.0
Pumpoff #37	5/4/2022	882.7	868.2	-1.7	146.0	144.0	1.4	141.4	151.5	146.6	3.2	143.9	156.2	153.0	2.0	150.8					370.3	22.110.0
	5/6/2022				145.7	142.4	2.3	141.3	127.3	125.0	1.8	123.7	70.4	68.3	3.0	67.4					768.5	23214.5
Pumpoff #38	6/1/2022	685.4	674.0	-1.7	145.2	142.0	2.2	139.9	150.3	146.7	2.4	144.6										
	6/2/2022				140.2	135.0	3.7	128.1	136.6	132.6	2.9	130.4									543.0	23757.5
Pumpoff #39	6/29/2022	545.5	539.3	-1.3	145.7	136.9	6.0	134.1	143.6	140.7	2.0	137.7	1									i 7
	6/30/2022		707		142.0	139.5	1.8	136.7	49.8	49.0	1.6	46.6	40	407.7		105 -			Н		455.1	24212.6
Pumpoff #40	7/28/2022	707.2	702.1	-0.7	139.1	137.0	1.5	134.4	144.9	140.7	2.9	137.6	135.9	133.2	2.0	130.2					640.3	24024.0
Pumpoff #41	7/29/2022 8/26/2022	461.4	459.8	-0.3	141.8 149.6	138.1 146.2	2.6	135.2 143.8	86.8	83.3	4.0	81.8							H		619.2	24831.8
rumpon #41	8/29/2022	401.4	433.8	-0.3	149.9	146.6	2.2	144.0	106.3	102.1	4.0	99.8									387.6	25219.4
Pumpoff #42	9/20/2022	565.9	563.9	-0.4	151.5	147.6	2.6	144.6	100.5	102.1		33.0									507.0	25215.1
	9/21/2022				151.9	149.9	1.3	146.9	153.7	153.0	0.5	150.0	75.0	75.0	0.0	73.4					514.9	25734.3
Residual Tank	9/21/2022				74.2	70.5	5.0	69.0	86.5	86.0	0.6	68.0									137.0	25871.3
Pumpoff #43	10/26/2022	577.3	581.8	0.8	143.8	139.5	3.0	137.5	145.6	143.4	1.5	141.5										
	10/27/2022				146.6	141.4	3.5	139.4	83.9	81.3	3.1	80.2									498.6	26369.9
Pumpoff #44	11/22/2022	583.2	580.2	-0.5	138.3	127.6	7.7	126.5	132.4	137.7	-4.0	136.5										1
- 44	11/23/2022				148.0	140.4	5.1	138.7	133.2	129.6	2.7	128.5									530.2	26900.1
Pumpoff #45	12/20/2022 12/21/2022	625.5	621.7	-0.6	144.9 145.7	140.0 140.0	3.4	137.0 137.0	150.3	140.0	6.9	137.0	149.5	141.0	5.7	138.0					549.0	27449.1
Residual Tank	12/21/2022		 -	 	62.5	62.7	-0.3	61.4	 		 			 					├ -		61.4	27510.5
Pumpoff #46	1/26/2023	719.7	709.7	-1.4	137.9	137.9	0.0	137.0	132.9	128.8	3.1	127.8	124.3	120.1	3.4	119.2					01.4	27310.5
i dinport ii io	1/27/2023	7 23.7	703.7		135.2	131.9	2.4	131.1	102.5	109.0	-6.3	103.3	121.5	120.1	5. 1	115.2					618.4	28128.9
Pumpoff #47	2/23/2023	576.8	578.6	0.3	110.7	106.0	4.2	103.6	145.7	145.0	0.5	141.7										1
	2/24/2023				139.8	139.0	0.6	135.7	122.3	117.0	4.3	114.2									495.2	28624.1
Pumpoff #48	3/28/2023	612.4	607.8	-0.8	141.8	140.0	1.3	138.4	136.7	132.0	3.4	129.8										l
	3/29/2023				149.1	145.0	2.7	143.9	136.4	135.0	1.0	133.9									546.0	29170.1
Pumpoff #49	5/10/2023	651.9	647.4	-0.7	147.2	146.1	0.7	144.8	157.3	151.0	4.0	149.2										1
D of #50	5/11/2023	75.0.0	740.4	2.2	150.8	150.0	0.5	148.2	155.7	152.0	2.4	150.0	452.2	142.0		110.0					592.2	29762.3
Pumpoff #50	6/6/2023 6/7/2023	756.6	740.4	-2.2	141.3 147.2	140.0 140.0	0.9 4.9	138.1 138.3	155.4 101.7	145.0 100.7	4.7 1.0	143.0 97.8	152.3	142.0	6.8	140.0					657.2	30419.5
Pumpoff #51	6/22/2023	551.1	545.6	-1.0	134.4	135.0	-0.4	132.2	143.5	141.0	1.7	137.6									037.2	30413.3
r umpon nos	6/23/2023	331.1	3 13.0	1.0	143.7	138.0	4.0	136.1	78.8	77.0	2.3	75.9									481.8	30901.3
Pumpoff #52	8/3/2023	743.6	740.4	-0.4	141.8	140.0	1.3	137.3	147.6	145.0	1.8	142.2										
	8/4/2023	<u></u>			148.0	140.0	5.4	137.3	148.3	145.0	2.2	141.8	87.5	84.0	4.0	82.0					640.6	31541.9
Pumpoff #53	8/24/2023	419.9	410.9	-2.2	132.1	130.0	1.6	127.8	139.0	130.0	6.5	127.6	104.8	104.0	0.8	101.9					357.3	31899.2
Residual Tank	8/25/2023	 			136.3	135.0	1.0	129.5			<u> </u>	<u> </u>							Ш		129.5	32028.7
Pumpoff #54	9/28/2023	639.3	637.7	-0.3	142.2	135.0	5.1	133.0	146.4	135.0	7.8	133.0	151.5	150.0	1.0	147.6					F76.0	22665.0
Dumm - ff ur -	9/29/2023	E70.4	577 A	0.3	167.8	165.0	1.7	162.7	142.7	140.0	1.0	120.2							$\vdash \vdash$		576.3	32605.0
Pumpoff #55	10/24/2023	579.1	577.4	-0.3	149.6 150.4	135.0 130.0	9.8 13.6	133.3 128.4	142.7 79.9	140.0 75.0	1.9 6.1	138.3 74.1									474.1	33079.1
Pumpoff #56	11/30/2023	719.9	715.7	-0.6	145.6	145.0	0.4	143.7	151.1	150.0	0.7	148.4							H		7,4.1	33073.1
	12/1/2023		5.,	3.0	151.1	150.0	0.7	148.9	142.5	135.0	5.3	133.8									574.7	33653.8
	12/14/2023	544.9	542.2	-0.5	134.4	130.0	3.3	129.5	124.2	120.0		119.1										
Pumpoff #57-	12/15/2023			1	140.6	140.0	0.4	137.0			1	l										i I
58	2/6/2024	763.6	762.7	-0.1	139.1	140.0	-0.6	138.8	136.2	135.0	0.9	133.8	154.3	154.0	0.2	152.3						i
	2/7/2024	 			145.7	145.0	0.5	142.4	149.9	148.0	1.3	145.2	134.0	132.0	1.5	129.4			Ш		1227.5	34881.3
Pumpoff #59	3/11/2024	857.2	849.2	-0.9	151.4	149.0	1.6	147.0	150.1	147.9	1.5	146.0	149.2	150.0	-0.5	147.2					74.5	25502.0
Dumpoff #60	3/12/2024	EGF 1	562.2	0.5	152.2	149.0	2.1	147.2	127.4	125.6	1.4	124.1	1/12 /	140.0	2.4	1277			H		711.5	35592.8
Pumpoff #60	4/9/2024 4/16/2024	565.1	562.3	-0.5	121.9 134.0	121.9 132.6	0.0 1.0	119.9 130.4	120.4	120.4	0.0	119.7	143.4	140.0	2.4	137.7					507.7	36100.5
	5/29/2024	840.8	837.8	-0.4	140.2	140.0	0.1	130.4	152.0	152.0	0.0	149.0	148.0	150.0	-1.4	147.5			H		307.7	30100.3
Pumpoff #61-	5/30/1934	306.0	304.6	-0.5	159.3	159.0	0.2	155.7	149.5	152.0		150.1				,.5						i I
62	5/31/2024	L	<u> </u>	<u> </u>	143.0	143.0	0.0	140.2	90.8	90.8	0.0		<u> </u>	<u> </u>			<u> </u>		$\lfloor _{-\perp} floor$		970.1	37070.6
Residual Tank	5/10/2024				83.9	88.2	-5.1	84.0													84.0	37154.6
Pumpoff #63	7/10/2024	816.2	811.8	-0.5	146.8	145.0	1.2	142.7	147.2	148.0	-0.5											i
	7/11/2024	 			154.6	154.0	0.4	151.7	153.4	150.0	2.2	148.2	136.6	135.0	1.2	133.0			Ш		722.1	37876.7
Pumpoff #64	8/14/2024	656.6	656.1	-0.1	146.4	143.0	2.3	140.5	146.5	146.5		143.3									507 :	204611
	8/15/2024	1	L	<u> </u>	152.2	145.0	4.7	142.4	164.1	164.1	0.0	161.2	l								587.4	38464.1

Oil Tally Contd.

					Truck 1				Truck 2				Truck 3				Truck 4					Running
Oil Tally	Date	Total Fluid	Total Fluid		Total Fluids	Total Fluid			Total Fluids	Total Fluid			Total Fluids	Total Fluid			Total Fluids	Total Fluid			Total	Total
		Transfer	Frac	%	to Acadiana	at	%	Net	to Acadiana	at	%	Net	to Acadiana	at	%	Net	to Acadiana	at	%	Net	Net	Net
		by	Tank Strap		NRC Frac	Acadiana			NRC Frac	Acadiana			NRC Frac	Acadiana			NRC Frac	Acadiana				
		Legends	by NRC	Diff	Strap	by strap	Diff	Oil	Strap	by strap	Diff	Oil	Strap	by strap	Diff	Oil	Strap	by strap	Diff	Oil	Oil	Oil
		(bbl)	(bbl)		(bbl)	(bbl)		(bbl)	(bbl)	(bbl)		(bbl)	(bbl)	(bbl)		(bbl)	(bbl)	(bbl)		(bbl)	(bbl)	(bbl)
Pumpoff #65	9/17/2024	537.3	535.5	-0.3	127.3	126.0	1.0	124.1														
	9/20/2024				127.7	125.0	2.1	123.2	118.8	119.0	-0.2	117.3	130.5	124.0	5.0	122.2					486.8	38950.9
Pumpoff #66	10/22/2024	827.0	821.1	-0.7	143.7	140.0	2.6	139.4	150.2	148.1	1.4	146.0	159.6	159.0	0.4	156.6						
	10/23/2024				157.3	157.0	0.2	154.6	141.4	141.0	0.3	138.9									735.5	39686.4
Pumpoff #67	11/21/2024	473.4	471.4	-0.4	153.7	150.0	2.4	149.0	153.5	147.5	3.9	146.5	39.6	39.6	0.0	38.6					334.1	40020.5
Residual Tank	11/21/2024		[34.9	34.9	0.0	34.1	T					[i				34.1	40054.6
Pumpoff #68	1/7/2025	677.7	673.9	-0.6	157.6	155.0	1.6	154.4	165.4	165.4	0.0	164.6										
	1/8/2025				164.3	155.0	5.7	154.2	124.5	124.0	0.4	123.4					1	1			596.6	40651.2

Total Fluid Reconciliation

				Truck 1	Truck 2	Truck 3	Truck 4			
		Total Fluid	Water Decanted	Total Fluids	Total Fluids	Total Fluids	Total Fluids	Residual	Total of Fluid	
		Frac Tank Strap	From Frac Tank	to Acadiana	to Acadiana	to Acadiana	to Acadiana	left in	From Trucks,	
		at Port Fourchon	Using Strap	NRC	NRC	NRC	NRC	Frac	Residual &	
		by NRC	Measurement	Frac Strap	Frac Strap	Frac Strap	Frac Strap	Tanks	Decant	%
	Date	(bbl)	(bbl)	(bbl)	(bbl)	(bbl)	(bbl)	(bbl)	(bbl)	Diff
Pump Off #1	4/26/2019 5/6/2019	215.7	0.0	113.7	97.0	0.0	0.0	5.2	215.9	0.1
Pump Off #2	5/3/2019	223.5	15.6	113.7	37.0	0.0	0.0	3.2	213.9	0.1
. up 011 112	5/8/2019	223.3	25.0	101.3	82.8	0.0	0.0	17.6	217.3	-2.8
Pump Off #3	5/13/2019	331.2	0.0							
	5/16/2019			103.2	126.4	108.5	0.0	16.2	354.3	-1.6
Pump Off #4	6/19/2019	905.5	32.5	139.4	138.7	0.0	0.0		310.6	
	6/20/2019			137.7	140.7	140.6	144.1	0.6	563.1	
	6/21/2019 PO4: Total			48.5	0.0	0.0	0.0	0.6	49.1 922.8	-1.8
Pump Off #5	7/31/2019	1196.6	96.3	139.2	142.7				281.9	-1.0
. up 0	8/1/2019	1130.0	30.5	139.1	140.7	146.0	138.0		563.8	
	8/2/2019			99.8	101.0			45.2	246.0	-0.7
	PO5: Total								1188.0	
Pump Off #6	8/26/2019	874.6	56.8	141.7	140.3	141.5			480.3	
	8/27/2019		*	140.5	137.2	61.3		57.9	396.9	
	PO6: Total			1000				*	877.2	0.3
Pump Off #7	9/23/2019 9/24/2019	880.4	41.3	138.0 144.4	144.3 143.7	142.6 55.3		55.3	466.2 398.7	
	9/24/2019 P07: Total			144.4	145.7	55.5		33.3 *	864.9	-1.8
Pump Off #8	10/21/2019	787.4	27.2						27.2	1.0
	10/22/2019			143.9	154.3	144.0			442.2	
	10/23/2019			137.7	130.0	L	l		267.7	
Residual Tank	10/23/2019	205.1	53.5			125.4		66.4	245.3	
	PO8: Total								982.4	-1.0
Pump Off #9	11/19/2019		32.0	142.3	143.8	145.3			463.4	
	11/20/2019	757.8		145.6	92.1			55.6	293.3	0.1
Pump Off #10	PO9: Total 12/17/2019	942.8	33.4	142.0	71.4	146.4			756.7 393.2	-0.1
Fullip Oil #10	12/17/2019	342.8	33.4	146.4	144.3	144.0	47.4	73.9	556.0	
	PO10: Total			140.4	144.5	144.0	47.4	73.3	949.2	0.7
Pump Off #11	1/9/2020	691.0	39.2	128.7	128.0	129.8		72.7	498.4	
	1/10/2020			79.4	92.6	L			172.0	
Residual Tank	1/8/2020	307.0	81.5	141.9				121.7	345.1	
Pumpoff #12	PO11: Total	722.5	49.1						1015.5 49.1	1.8
Pullipoli #12	2/11/2020 2/12/2020	722.5	2.7	120.8	102.1	99.0			324.6	
	2/13/2020		3.9	149.5	114.2			87.5	355.1	
	PO12: Total			<u> </u>				*	728.8	0.9
Residual tank	2/17/2020	265.8	93.6	108.2				121.7	201.8	
	2/18/2020 Resid Total		23.5					121.7	145.2 347	-1.8
Pumpoff #13	3/11/2020	570.2	39.6						39.6	
	3/12/2020		2.8	114.5	138.3				255.6	
	3/13/2020			93.6	120.0			63.7	277.3	0.4
Pumpoff #14	PO13: Total 4/15/2020	928.8	55.1						572.5 55.1	0.4
	4/16/2020	320.0	55.1	147.2	145.2	148			440.4	
	4/17/2020			144.9	144.1	87.4		65.4	441.8	
Daniel val tausl	PO14:Total	244.1	67.6		 	 -			937.3	0.9
Residual tank	4/13/2020 4/14/2020	244.1	67.6	149.9				26.6	67.6 176.5	
	., 1 ., 2020			1.5.5				20.0	244.1	0.0
Pumpoff #15	5/6/2020	783.1	18.3						18.3	
	5/7/2020		1.2	150.3	148.0	145.2		40.0	444.7	
	5/8/2020 PO15: Total			147.2	131.7			40.0	318.9 781.9	-0.2
Pumpoff #16	5/27/2020	583.3	25.3						25.3	0.2
	5/28/2020			142.1					142.1	
	5/29/2020			138.0	135.1	115.0		27.8	415.9	
Residual tank	PO16: Total 5/27/2020		67.2	· 	 	 		153.6	583.3	0.0
Pumpoff #17	7/8/2020	956.3	23.6					100.0	23.6	
,	7/9/2020		2.4	149.1	148.8	149.2			449.5	
	7/10/2020			150.7	137.1	119.9		63.3	471	
Pumpoff #18	PO17: Total 7/22/2020	642.6	14.3	1					944.1	-1.3
7 umpon #10	7/27/2020	0-72.0	14.3	129.9	140.6	138.2	139.8	0.0		
	7/28/2020		13.6	66.0					642.4	0.0
Residual Tank	7/22/2020	299.6	67.2							
Dumpeff #10	7/28/2020	996.4	31.3	113.0	125.5			84.5	296.0	-1.2
Pumpoff #19	9/1/2020 9/2/2020	886.4	7.8	128.2 131.2	135.5 135.9	135.9	134.8	76.2	885.5	-0.1
Residual Tank	8/31/2020	292.6	102.9	·				189.7	189.7	 : -
				•	•					

Total Fluid Reconciliation Contd.

Total Fluid Fract Face Fr					Truel 1		Taurali 2	Taurals 4	1		
## Frac Tank Strap strong frac Tank Strap strong frac Tank Strap by NRC Measurement form frac Tank Strap frac Tank Strap frac Strap			Total Fluid	Water Decanted	Truck 1	Truck 2	Truck 3	Truck 4	Bosidual	Total of Fluid	
Date										From Trucks,	ł
Date										Residual &	ĺ
Date (bbl) (bbl)										Decant	%
Pumpoff #20 9/39/2020 450.9 52.9 144.0 143.5 24.8 45.8 45.8 45.9 46.0 16.1 17.9 27.8 27.7 136.5 17.9 27.8		Date								(bbl)	Diff
Residual Tank	Pumpoff #20						(551)	(661)		450.9	0.0
Recidual Tank 9/30/2002 273.2 216.1 16.1 17.9 27 27 27 27 27 27 27 2	rumpon #20		430.9	32.5		143.3			24.0	430.9	0.0
Pumpoff 21 10/1/2020 61.01 14.0 139.0 145.3 145.3 146.0 28.6 61.0 10/16/2020 61.0 14.0 139.0 145.3 146.0 28.6 62.0 62.0 10/16/2020 673.2 68.7 146.5 148.4 146.4 32.3 62.0 62.0 63.1 11/17/2020 673.2 68.7 146.5 148.4 146.4 32.3 62.0 62.0 63.1 11/17/2020 673.2 68.7 146.5 148.4 146.4 32.3 62.0 62.0 63.1 11/17/2020 673.2 68.7 146.5 148.3 148.3 148.5 148.3 148.2 67.0 68.5 62.0 68.5 69.0 68.5 69.0 68.5 69.0 68.5 69.0 68.5 69.0 68.5 69.0 68.5 69.0 68.5 69.0 69	Posidual Tank		272.2	116.1	65.7	 		 		 	 -
Pumpoff #21 10/15/2020 610.1 14.0 139.0 145.3 28.6 61	Residual Talik		2/3.2		136.5				17.9	273.2	0.0
Besidual Tank 10/14/2020 293.4 111.8 49.5 25 25 25 25 27 27 27 2	Dumnoff #21		610.1			145.2			17.5	273.2	0.0
Residual Tank 10/14/2020 293.4 111.8	rumpon #21		010.1	14.0					28.6	610.1	0.0
10/1s/2020	Pocidual Tank		202.4	111 0	147.2	150.0				293.4	0.0
Pumpoff #22 11/16/2020	Nesidual Talik		255.4						45.5	255.4	0.0
11/17/2020	Pumpoff #22		672.2		146 5	1/12 /	146.4				
Pumpoff #23 12/91/2020 784.3 30.3 146.1 146.8 145.2 56.7 78	Pullipuli #22		0/3.2			145.4	140.4		22.2	673.2	0.0
12/31/2020	Dumnoff #22		704.2			146.0	145.2		32.3	073.2	0.0
Numpoff #24 1/28/201 164.8 31.1 100.9 150.7 115.3 68.5	Pullipuli #25		704.3	30.3			145.2		56.7	784.3	0.0
Pumpoff #24 1788/2021 11.8 146.0 150.7 115.3 68.5			662.0	22.2	143.3	113.5			30.7	704.3	0.0
Residual Tank 118 146.0 150.7 115.3 68.5 68.	Pumpoff #24		003.9	23.3	140.2						ł
Residual Tank 27/20/2021 164.8 31.1 100.9 32.8 12	rumpon #24			11 2		150.7	115 2		68.5	655.8	-1.2
Pumpoff #2 5 3/3/2021 738.1 26.1 144.6 146.5 146.0 3/9/2021 5.7 144.6 146.5 146.0 3/9/2021 3/9/2021 1016.9 47.8 73.8 4/20/2021 4/22/2021 4/22/2021 4/22/2021 4/22/2021 4/22/2021 4/22/2021 4/22/2021 4/22/2021 111.4 114.4 62.2 10 4/22/2021 4/22/2021 18.2 2 23.8 4/22/2021 26.9 9.4 132.5 146.4 144.1 62.2 10 4/22/2021 26.9 9.4 132.5 23.8 23.8 24.22/2021 27.22/2021 27.25 27.22/2021 27.25 27.22/2021 27.25 27.22/2021 27.25 27.22/2021 27.25 27.22/2021 27.22/2021 27.25 27.22/2021	Recidual Tank		164.8			130.7	113.3	 		164.8	0.0
Sample					100.5				32.0	104.0	0.0
Pumpoff #26-27 4/1/2021 1016.9 73.8 47.8 73.8 47.8 73.8 47.8 73.8 47.8 73.8 47.8 73.8 47.8 73.8 47.8 73.8 47.8 73.8 47.8 73.8 47.8 73.8 47.8 73.8 47.8 73.8 47.8 73.8 47.8 73.8 47.2 73.2 73.2 73.2 73.2 73.2 73.2 73.2 7	Pullipuli # 25		/30.1		144.6	146 5	146.0				ĺ
Pumpoff #26-27	[3.7			140.0		47 °	738.1	0.0
A 20/201	Dumnoff # 26 27		1016.0	72 0	144.1	11.3			47.0	/30.1	0.0
A/21/2021	1 ullipoli # 20-27		1010.9			1					1
A/22/2021				00.2	142.7	142.6					ł
Residual Tank				6.4			144.1		62.2	1014.3	ł
Residual Tank				0.4		140.4	144.1		02.2	1014.5	-0.3
A 22/2021 32.6 21	Posidual Tank		216.0	0.4		 		 	22.0	 	-0.3
Pumpoff #28 \$2/6/2021 706.1 72.5 144.5 141.4 143.3 34.6 70 70.6	Nesiduai Talik		210.9		132.3				23.0		ĺ
Pumpoff #28 5/26/2021 706.1 72.5 144.5 141.4 143.3 34.6 70 70/4/2021 70/4/2021 71/5/2021 631.7 81.4 114.7 150.8 119.8 155.3 9.7 63 70/4/2021 77/15/2021 77/15/2021 750.2 20.4 115.3 112.6 106.8 8/5/2021 18.5 118.4 124.3 33.9 75 70/4/2021 750.2 20.4 115.3 112.6 106.8 8/5/2021 18.5 118.4 124.3 33.9 75 75 75 75 75 75 75 7										216.5	-0.2
S/27/2021 S/28/2021 S/28/2022 S/28	Pumpoff #28		706.1							210.5	-0.2
Pumpoff #29 7/14/2021 631.7 81.4 114.7 150.8 119.8 155.3 9.7 63.7 7/15/2021 631.7 81.4 114.7 150.8 119.8 155.3 9.7 63.7 7/16/2021 371.2 219.1 7/21/2021 152.1 7/16/2021 750.2 20.4 115.3 112.6 106.8 8/5/2021 8/5/2021 18.5 118.5 118.4 124.3 33.9 75. 75.2	1 umpon #20		700.1	72.3	1/// 5	1/11/	1/12 2				ĺ
Pumpoff #29							145.5		34.6	706.1	0.0
Residual Tank	Pumpoff #29				01.1	00.7			34.0	700.1	0.0
Residual Tank 7/16/2021 371.2 219.1 152.1	1 umpon #25		631.7	Q1 /I	11/1 7	150.8	110 8	155.2	9.7	631.7	0.0
Pumpoff #30 8/4/2021 750.2 20.4 115.3 112.6 106.8 8/5/2021 8/6/2021 118.5 118.4 124.3 33.9 75 126.6 142.9 9/24/2021 9/24/2021 28.2 126.3 138.7 55 118.4 124.3 33.9 75 11/4/2021 11/4/2021 11/5/2021 11/6/2021 11/9/2021 11/9/2021 11/9/2021 11/9/2021 11/9/2021 12/1/2021 12/1/2022 144.0 149.6 144.0 152.3 11/6/2022 11/6/2022 11/6/2022 11/6/2022 11/6/2022 11/6/2022 11/9/2021 12/1/2022 12/1/2022 12/1/2022 12/1/2022 12/1/2022 12/1/2022 12/1/2022 12/1/2022 144.1 140.2 12/1/2022 12/1/2022 12/1/2022 12/1/2022 144.1 140.2 144.1 14	Recidual Tank		·			150.0	115.0	133.3	} <u></u>	371.2	0.0
Pumpoff #30	Residual Falls		371.2							371.2	0.0
Residual Tank Residual Tan	Pumpoff #30		750.2								
Residual Tank Residual Tan	1 unipon #30		750.2	20.4	115.3	112 6	106.8				ĺ
Pumpoff #31 9/22/2021 598.4 16.7 145.6 142.9 9/24/2021 28.2 126.3 138.7 559 11/3/2021 11/3/2021 11/3/2021 11/3/2021 11/3/2021 11/3/2021 11/3/2021 11/3/2021 11/3/2021 11/9/2022 11/9/2022 11									33.9	750.2	0.0
9/23/2021 9/24/2021 28.2 145.6 142.9 138.7 55.5 Pumpoff #32 11/3/2021 937.1 31.7 147.8 148.7 11/4/2021 11/5/2021 11/5/2021 11/5/2021 11/5/2021 11/8.8 32.0 93.2 Pumpoff #33 11/29/2021 786.2 56.0 142.9 144.0 149.6 149.6 141.5 130.9 21.3 78.2 17/2022 141.5 130.9 21.3 78.2 17/2022 149.6 144.0 152.3 17/2022 149.6 144.0 152.3 17/2022 149.6 144.0 152.3 17/2022 144.1 140.2 17/2022 144.1 140.2 12/17/2022 144.1 140.2 12/17/2022 144.1 140.2 12/17/2022 144.1 140.2 12/17/2022 144.1 140.2 12/17/2022 144.1 140.2 12/17/2022 144.1 140.2 12/17/2022 144.1 140.2 12/17/2022 144.1 140.2 12/17/2022 144.1 140.2 12/17/2022 144.1 140.2 12/17/2022 144.1 140.2 12/17/2022 144.1 140.2 12/17/2022 144.1 140.2 12/17/2022 144.1 140.2 12/17/2022 144.1 140.2 12/17/2022 144.1 140.2 12/17/2022 144.1 140.2 12/17/2022 144.1 140.2 144.1 14	Pumpoff #31		598.4	16.7	110.5	11011	12.110		55.5	755.2	
Pumpoff #32 11/3/2021 937.1 31.7 147.8 148.7 11/4/2021 11/5/2021 150.2 11/9/2021 11/30/2021 17/2021 18.8 32.0 93 11/29/2021 17/2021 141.5 130.9 144.0 149.6 149.6	. upooz		330.1	20.7	145.6	142 9					ł
Pumpoff #32				28.2						598.4	0.0
11/4/2021 11/5/2021 152.5 154.6	Pumpoff #32		937 1							330.1	0.0
11/5/2021 11/9/2021 150.2 118.8 32.0 93	. upooz		307.12	02.7							ł
Pumpoff #33						150					ĺ
Pumpoff #33									32.0	936.3	-0.1
11/30/2021	Pumpoff #33		786.2	56.0							
12/1/2021					142.9	144.0	149.6				ĺ
Pumpoff #34							1.5.0		21.3	786.2	0.0
1/6/2022	Pumpoff #34		673.8	107.1			İ	İ			
1/7/2022 86.4 34.2 67					149.6	144.0	152.3				i
Pumpoff #35						1			34.2	673.6	-0.6
2/15/2022 9.3 144.1 140.2 2/16/2022 2/17/2022 125.5 121.8 2/17/2022 1.5 94.0 6.8 20 2/17/2022 678.5 3/18/2022 3/23/2022 3.1 152.5 152.7 3/24/2022 3/18/2022 3/	Pumpoff #35		551.9	6.2		1	İ	İ		555.4	
2/16/2022 144.1 140.2 125.5 121.8	. , , , , , , ,					1					1
125.5 121.8					144.1	140.2					i
Residual Tank 2/8/2022 207.1 104.8 2/17/2022 1.5 94.0 6.8 20 2/21/2022 678.5 3/18/2022 3/18/2022 3.1 152.5 152.7 3/24/2022 148 157.6 Residual Tank 3/18/2022 27.7 27.7 Pumpoff #37 4/6/2022 868.2											0.6
2/11/2022 1.5 94.0 6.8 20	Residual Tank		207.1	104.8	- 	t	[t			
Pumpoff #36 2/21/2022 678.5 3/18/2022 54.9 3/23/2022 3.1 152.5 3/24/2022 148 157.6 Residual Tank 3/18/2022 27.7 27.7 Pumpoff #37 4/6/2022 868.2					94.0	1			6.8	207.1	0.0
3/18/2022 54.9 3/23/2022 3.1 152.5 152.7 3/24/2022 148 157.6 Residual Tank 3/18/2022 27.7 27.7 Pumpoff #37 4/6/2022 868.2	Pumpoff #36		678.5								
3/23/2022 3.1 152.5 152.7 31.6 70 148 157.6				54.9		1					1
3/24/2022 148 157.6	[152.5	152.7			31.6	700.4	i
Residual Tank 3/18/2022 27.7 27.7 0 2 Pumpoff #37 4/6/2022 868.2											3.1
Pumpoff #37 4/6/2022 868.2	Residual Tank		27.7	27.7		T	[1	0	27.7	0.0
4/22/2022 22.9		4/22/2022		22.9		1					l
5/4/2022 2.8 146 151.5 156.2					146	151.5	156.2				l
	[46.2	869.0	0.1
Pumpoff #38 5/15/2022 674	Pumpoff #38		674								
5/31/2022 69.2				69.2		1					l
6/1/2022 3.9 145.2 150.3					145.2	150.3					l
									28.6	674.0	0.0
Pumpoff #39 6/28/2022 538.3 39.3	Pumpoff #39	6/28/2022	538.3	39.3							
6/29/2022 145.7 143.6		6/29/2022			145.7	143.6					i
6/30/2022 142 49.8 22.0 54	[6/30/2022			142	49.8			22.0	542.4	0.2

Total Fluid Reconciliation Contd.

				Truck 1	Truck 2	Truck 3	Truck 4			
		Total Fluid	Water Decanted	Total Fluids	Total Fluids	Total Fluids	Total Fluids	Residual	Total of Fluid	
		Frac Tank Strap	From Frac Tank	to Acadiana	to Acadiana	to Acadiana	to Acadiana	left in	From Trucks,	
		at Port Fourchon	Using Strap	NRC	NRC	NRC	NRC	Frac	Residual &	
		by NRC	Measurement	Frac Strap	Frac Strap	Frac Strap	Frac Strap	Tanks	Decant	%
	Date	(bbl)	(bbl)	(bbl)	(bbl)	(bbl)	(bbl)	(bbl)	(bbl)	Diff
Pumpoff #40	7/27/2022	702.1	15.4							
	7/28/2022			139.1	144.9	135.9				
	7/29/2022			141.8	86.8			38.2	702.1	0.0
Pumpoff #41	8/25/2022	459.8	36.5							
	8/26/2022			149.6	405.0			47.5	450.0	
	8/29/2022	562.0	10.0	149.9	106.3			17.5	459.8	0.0
Pumpoff #42	9/5/2022	563.9	16.6	454.5						
	9/20/2022 9/21/2022			151.5 151.9	153.7	75.0		15.5	564.2	0.1
Residual Tank	9/21/2022	203.3	16.0	74.2	86.5	75.0		26.6	203.3	0.0
Pumpoff #43	10/4/2022	581.8	19.5	74.2	80.3			20.0	203.3	0.0
rumpon #45	10/4/2022	361.6	15.5	143.8	145.6					
	10/27/2022			146.6	83.9			42.6	582.0	0.0
Pumpoff #44	11/5/2022	580.2	15.2	1.0.0	00.5			12.0	552.6	0.0
. apo	11/22/2022	500.2	23.2	138.3	132.4					
	11/23/2022			148.0	133.2			18.2	585.3	0.9
Pumpoff #45	12/3/2022	621.7	18.5							
•	12/20/2022			144.9	150.3	149.5				
	12/21/2022	L		145.7	L		L	12.8	621.7	0.0
Residual Tank	12/21/2022	209.5	135.2	62.5				11.8	209.5	0.0
Pumpoff #46	1/7/2023	709.7	37.6							
	1/26/2023			137.9	132.9	124.3				
	1/27/2023			135.2	102.5			39.3	709.7	0.0
Pumpoff #47	2/2/2023	578.6	43.4							
	2/23/2023			110.7	145.7			44.0	570.6	
	2/24/2023	607.0	2.7	139.8	122.3			14.0	578.6	0.0
Pumpoff #48	3/8/2023	607.8	22.5	444.0	4267					
	3/28/2023 3/29/2023		2.0	141.8 149.1	136.7 136.4			19.3	607.8	0.0
Pumpoff #49	4/10/2023	647.4	15.5	149.1	130.4			19.5	607.8	0.0
Pullipoli #49	5/10/2023	047.4	15.5	147.2	157.3					
	5/11/2023			150.8	155.7			20.9	647.4	0.0
Pumpoff #50	5/21/2023	740.4	12.9	150.0	133.7			20.5	01711	0.0
. aposo	6/6/2023	7 101 1	12.0	141.3	155.4	152.3				
	6/7/2023			147.2	101.7			29.6	740.4	0.0
Pumpoff #51	6/13/2023	545.6	18.5							
·	6/22/2023			134.4	143.5					
	6/23/2023			143.7	78.8			26.7	545.6	0.0
Pumpoff #52	7/21/2023	740.4	14.4							
	8/3/2023			141.8	147.6					
	8/4/2023			148.0	148.3	87.5		52.8	740.4	0.0
Pumpoff #53	8/12/2023	410.9	16							
	8/24/2023			132.1	139.0	104.8		19.0	410.9	0.0
Residual Tank	8/25/2023	216.1	38.5	136.3				41.3	216.1	0.0
Pumpoff #54	9/13/2023	637.7	8.1	442.2	446.4	454.5				
	9/28/2023 9/29/2023			142.2	146.4	151.5		21.7	627.7	0.0
Pumpoff #55	10/10/2023	577.4	39.1	167.8				21.7	637.7	0.0
Pullipuli #55	10/10/2023	5/7.4	39.1	149.6	142.7					
	10/24/2023		0.4	150.4	79.9			15.3	577.4	0.0
Pumpoff #56	11/9/2023	715.7	107.6	150.4	75.5			13.3	377.4	0.0
r umporr #50	11/30/2023	715.7	107.0	145.6	151.1					
	12/1/2023			151.1	142.5			17.8	715.7	0.0
Pumpoff #57-58	12/6/2023	542.2	14.8	191.1	172.3			17.0	, 13.7	0.0
. umpon #37-30	12/0/2023	3-2.2	17.0	134.4	124.2					
	12/15/2023			140.6				5.3		
	1/15/2024	762.7	17.9	140.0				5.5		
	2/6/2024	702.7	1.1	139.1	136.2	154.3				
	2/7/2024		3.8	145.7	149.9	134.0		3.6	1304.9	0.0
Residual Tank	12/13/2024	288.7	92.4	t <u>-</u>	t			196.3		
ACSIGNATION	2/5/2024	208.3	92.8					115.5	497.0	0.0
Pumpoff #59	3/1/2024	849.2	102.8							
	3/11/2024	3.3.2	8.4	151.4	150.1	149.2				
	3/11/2024		J.7	152.2	127.4	2.3.2		7.8	849.3	0.0
	3/ 12/ 2024			172.2	14/.7			,.0	0-7.5	5.0

Total Fluid Reconciliation Contd.

				Truck 1	Truck 2	Truck 3	Truck 4			
		Total Fluid	Water Decanted	Total Fluids	Total Fluids	Total Fluids	Total Fluids	Residual	Total of Fluid	
		Frac Tank Strap	From Frac Tank	to Acadiana	to Acadiana	to Acadiana	to Acadiana	left in	From Trucks,	
		at Port Fourchon	Using Strap	NRC	NRC	NRC	NRC	Frac	Residual &	
		by NRC	Measurement	Frac Strap	Frac Strap	Frac Strap	Frac Strap	Tanks	Decant	%
	Date	(bbl)	(bbl)	(bbl)	(bbl)	(bbl)	(bbl)	(bbl)	(bbl)	Diff
Pumpoff #60	4/8/2024	562.3	32.6							
	4/9/2024			121.9	120.4	143.4				
	4/16/2024		3.1	134.0				6.9	562.3	0.0
Residual Tank	4/8/2024	312.0	75.7							
	4/16/2024		101.0					135.3	312.0	0.0
Pumpoff #61-62	5/28/2024	1142.4	90.4							
	5/29/2024		51.6	140.2	152.0	148.0				
	5/30/2024			159.3	149.5					
	5/31/2024			143.0	90.8			17.6	1142.4	0.0
Residual Tank	5/10/2024	157.3	73.4	83.9					157.3	0.0
Pumpoff #63	7/9/2024	811.8	57.5							
	7/10/2024			146.8	147.2					
	7/11/2024			154.6	153.4	136.6		15.7	811.8	0.0
Residual Tank	7/9/2024	42.1	42.1					0.0	42.1	0.0
Pumpoff #64	8/13/2024	656.1	37.8							
	8/14/2024			146.4	146.5					
	8/15/2024			152.2	164.1			9.1	656.1	0.0
Pumpoff #65	9/17/2024	535.5	29.9	127.3						
	9/20/2024			127.7	118.8	130.5		1.3	535.5	0.0
Residual Tank	9/16/2024	268.9	101.7							
	9/17/2024		81.2					86.0	268.9	0.0
Pumpoff #66	10/21/2024	821.1	54.8							
	10/22/2024			143.7	150.2	159.6				
	10/23/2024			157.3	141.4			14.1	821.1	0.0
Pumpoff #67	11/20/2024	471.4	118.1							
	11/21/2024			153.7	153.5	39.6	L	6.5	471.4	0.0
Residual Tank	11/20/2024	200.2	134.8							
	11/21/2024			34.9						
	11/22/2024		30.5					0.0	200.2	0.0
Pumpoff #68	1/6/2025	673.9	42.3							
	1/7/2025		3.9	157.6	165.4					
	1/8/2025			164.3	124.5			15.9	673.9	0.0

Barrels of Oil Collected Daily

			01 011			- dilij			
					Total	Net	RRS		
		c 		- 1-	Collection	Oil	Collection Rate	Collecti	
	Charl Data	Start Time	Ford Date	End Time	Duration	Collected	Of Oil	of	
Callegia - Danation for 4st Tria	Start Date	(hrs)	End Date	(hrs)	(Days)	(bbl)	(bbl/day)	(gallor	
Collection Duration for 1st Trip	4/12/2019	00:00	4/23/2019	01:05	11.0	187.4	17.0	715.7	gallons/day
Collection Duration for 2nd Trip	4/23/2019	01:05	4/30/2019	21:09	7.9	181.6	23.0	965.6	gallons/day
Collection Duration for 3rd Trip	4/30/2019	21:09	5/12/2019	23:20	12.1	295.7	24.4	1026.5	gallons/day
Collection Duration for 4th Trip	5/12/2019	23:20	6/13/2019	17:17	31.5	850.0	27.0	1132.3	gallons/day
Collection Duration for 5th Trip	6/13/2019	17:17	7/21/2019	01:40	37.4	983.7	26.3	1104.7	gallons/day
Collection Duration for 6th Trip	7/21/2019	01:40	8/18/2019	03:15	28.6	757.2	26.5	1112.0	gallons/day
Collection Duration for 7th Trip	8/18/2019	03:15	9/12/2019	22:30	25.8	749.2	29.0	1219.6	gallons/day
Collection Duration for 8th Trip Collection Duration for 9th Trip	9/12/2019	22:30	10/9/2019	10:15	26.5	675.8	25.5 20.8*	1071.1	gallons/day
· · · · · · · · · · · · · · · · · · ·	10/9/2019 11/10/2019	10:15 01:05	11/10/2019	01:05	31.6	659.1	31.6*	875.5 1327.5	gallons/day
Collection Duration for 10th Trip		10:25	12/6/2019 12/31/2019	10:25	25.9 25.5	818.6 567.2		934.2	gallons/day
Collection Duration for 11th Trip	12/6/2019			22:25			22.2		gallons/day
Collection Duration for 12th Trip	12/31/2019	22:25	1/30/2020	17:50	29.8	528.8	17.7	745.3 612.4	gallons/day
Collection Duration for 13th Trip	1/30/2020 3/2/2020	17:50 02:00	3/2/2020 4/2/2020	02:00 01:15	31.3 31.0	456.4 798.4	14.6 25.8	1081.7	gallons/day
Collection Duration for 14th Trip Collection Duration for 15th Trip	4/2/2020	02:00	4/25/2020	15:45	23.1	798.4	30.6	1286.7	gallons/day gallons/day
Collection Duration for 15th Trip	4/25/2020	15:45	5/15/2020	18:40	20.1	513.0	25.5	1071.0	
Collection Duration for 17th Trip	5/15/2020	18:40	6/18/2020	22:55	34.2	834.4	24.4	1071.0	gallons/day gallons/day
Collection Duration for 18th Trip	6/18/2020	22:55	7/12/2020	15:10	23.7	601.5	25.4	1066.8	gallons/day
Collection Duration for 19th Trip	7/12/2020	15:10	8/13/2020	06:00	33.6	785.5	23.4	982.8	
Collection Duration for 20th Trip	8/15/2020	06:00	9/2/2020	13:25	18.3	357.4	19.5	819.0	gallons/day gallons/day
·	9/2/2020	13:25	10/4/2020	15:20	32.1	548.3	17.1	718.2	gallons/day
Collection Duration for 21st Trip Collection Duration for 22nd Trip	10/4/2020	15:20	11/3/2020	16:10	30.0	532.4	17.7	718.2	
Collection Duration for 23rd Trip	11/3/2020	16:10	12/10/2020	13:00	36.9	655.4	17.7	743.4	gallons/day gallons/day
Collection Duration for 24th Trip	12/10/2020	13:00	1/9/2021	09:15	29.8	517.5	17.4	730.8	
Collection Duration for 25th Trip	1/9/2021	09:15	2/21/2021	11:30	43.1	624.7	14.5	609.0	gallons/day gallons/day
Collection Duration for 26th Trip	2/21/2021	11:30	3/15/2021	22:25	22.4	024.7	14.5	009.0	gallolis/day
Collection Duration for 27th Trip	3/15/2021	22:25	4/8/2021	12:35	23.6				_
Collection Duration for 26-27th	3/13/2021	22.25	4/0/2021	12.55	23.0		-		-
Trip	2/21/2021	11:30	4/8/2021	12:35	46.0	792.8	17.2	722.4	gallons/day
Collection Duration for 28th Trip	4/8/2021	12:35	5/14/2021	12:14	36.0	565.2	15.7	659.4	gallons/day
Collection Duraiton for 29th Trip	5/14/2021	12:14	6/11/2021	12:08	28.0	527.4	18.8	789.6	gallons/day
Collection Duration for 30th Trip	6/11/2021	12:08	7/22/2021	13:38	41.1	673.4	16.4	688.8	gallons/day
Collection Duration for 31st Trip	7/22/2021	13:38	9/4/2021	05:40	43.7	-	-	-	gallons/day
Collection Duration for 32nd Trip	9/4/2021	05:40	10/5/2021	15:30	31.4	_	-	-	gallons/day
Collection Duration for 31-32nd									
Trip	7/22/2021	13:38	10/5/2021	15:30	75.1	1371.7	18.3	768.6	gallons/day
Collection Duration for 33rd Trip	10/5/2021	15:30	11/13/2021	22:29	39.3	688.0	17.5	735.0	gallons/day
Collection Duration for 34th Trip	11/13/2021	22:29	12/14/2022	13:20	30.6	518.5	16.9	709.8	gallons/day
Collection Duration for 35th Trip	12/14/2022	13:20	1/13/2022		30.4	513.5	16.9	709.8	gallons/day
Collection Duration for 36th Trip	1/13/2022	23:30	2/18/2022	17:25	35.8	578.9	16.2	680.4	gallons/day
Collection Duration for 37th Trip	2/18/2022	17:25	4/4/2022	17:56	45.0	768.5	17.1	718.2	gallons/day
Collection Duration for 38th Trip	4/4/2022	17:56	5/11/2022	16:43	36.9	547.6	14.8	621.6	gallons/day
Collection Duration for 39th Trip	5/11/2022	16:43	6/7/2022	15:50	26.9	455.1	16.9	709.8	gallons/day
Collection Duration for 40th Trip	6/7/2022	15:50	7/14/2022	05:15	36.6	619.2	16.9	709.8	gallons/day
Collection Duration for 41st Trip	7/14/2022	05:15	8/5/2022	01:45	21.9	387.6	17.7	743.4	gallons/day
Collection Duration for 42nd Trip	8/5/2022	01:45	9/2/2022	14:35	28.5	514.9	18.1	760.2	gallons/day
Collection Duration for 43rd Trip	9/2/2022	14:35	10/1/2022	18:16	29.2	498.6	17.1	718.2	gallons/day
Collection Duration for 44th Trip	10/1/2022	18:16	11/2/2022	10:40	31.7	530.2	16.7	701.4	gallons/day
Collection Duration for 45th Trip	11/2/2022	10:40	12/2/2022	02:09	29.6	549.0	18.5	777.0	gallons/day
Collection Duration for 46th Trip	12/2/2022	02:09	1/5/2023	03:27	34.1	618.4	18.1	760.2	gallons/day
Collection Duration for 47th Trip	1/5/2023	03:27	1/31/2023	15:01	26.5	495.2	18.7	785.4	gallons/day
Collection Duration for 48th Trip	1/31/2023	15:01	3/5/2023	14:26	32.9	546.0	16.6	697.2	gallons/day
Collection Duration for 49th Trip	3/5/2023	14:26	4/7/2023		33.1	592.2	17.9	751.8	gallons/day
Collection Duration for 50th Trip	4/7/2023	17:47	5/14/2023	05:36	36.5	657.2	18.0	756.0	gallons/day
	., . , 2020		-,, 2020		- 5.5				J=, way

Barrels of Oil Collected Daily Contd.

	Daric	is or O		ccicu	Dany	Con	ıu.		
					Total	Net	RRS		
					Collection	Oil	Collection Rate	Collection	on Rate
		Start Time		End Time	Duration	Collected	Of Oil	of	Oil
	Start Date	(hrs)	End Date	(hrs)	(Days)	(bbl)	(bbl/day)	(gallor	n/day)
Collection Duration for 51st Trip	5/14/2023	05:36	6/10/2023	14:30	27.4	481.8	17.6	739.2	gallons/day
Collection Duration for 52nd Trip	6/10/2023	14:30	7/19/2023	20:38	39.3	640.6	16.3	684.6	gallons/day
Collection Duration for 53rd Trip	7/19/2023	20:38	8/10/2023	00:15	21.2	357.3	16.9	709.8	gallons/day
Collection Duration for 54th Trip	8/10/2023	00:15	9/10/2023	23:55	32.0	576.3	18.0	756.0	gallons/day
Collection Duration for 55th Trip	9/10/2023	23:55	10/8/2023	14:38	27.6	474.1	17.2	722.4	gallons/day
Collection Duration for 56th Trip	10/8/2023	14:38	11/8/2023	00:22	30.4	574.7	18.9	793.8	gallons/day
Collection Duration for 57th Trip	11/8/2023	00:22	12/4/2023	13:38	26.5	-	-	-	gallons/day
Collection Duration for 58th Trip	12/4/2023	13:38	1/13/2024	22:53	40.4	-	-	-	gallons/day
Collection Duration for 57-58th Trip	11/8/2023	00:22	1/13/2024	22:53	66.9	1227.5	18.3	768.6	gallons/day
Collection Duration for 59th Trip	1/13/2024	22:53	2/22/2024	06:50	39.3	711.5	18.1	760.2	gallons/day
Collection Duration for 60th Trip	2/22/2024	06:50	3/20/2024	19:59	27.5	507.7	18.5	777.0	gallons/day
Collection Duration for 61st Trip	3/20/2024	19:59	5/1/2024	01:31	41.2	-	-	-	gallons/day
Collection Duration for 62nd Trip	5/1/2024	01:31	5/13/2024	09:32	12.3	-	-	-	gallons/day
Collection Duration for 61-62nd									
Trip	3/20/2024	19:59	5/13/2024	09:32	53.5	970.1	18.1	760.2	gallons/day
Collection Duration for 63rd Trip	5/13/2024	09:32	6/22/2024	10:58	40.1	722.1	18.0	756.0	gallons/day
Collection Duration for 64th Trip	6/22/2024	10:58	7/26/2024	08:34	33.9	587.4	17.3	726.6	gallons/day
Collection Duration for 65th Trip	7/26/2024	08:34	8/25/2024	07:22	30.0	486.8	16.2	680.4	gallons/day
Collection Duration for 66th Trip	8/25/2024	07:22	10/11/2024	22:32	47.6	735.5	15.5	651.0	gallons/day
Collection Duration for 67th Trip	10/11/2024	22:32	11/3/2024	13:40	22.6	334.1	14.8	621.6	gallons/day
Collection Duration for 68th Trip	11/3/2024	13:40	12/12/2024	14:26	39.0	596.6	15.3	642.6	gallons/day

Barrels of Oil Collected Per Day Since RRS Install

					Total	Net	RRS		
					Collection	Oil	Collection Rate	Collecti	on Rate
		Start Time		End Time	Duration	Collected	Of Oil	of	Oil
	Start Date	(hrs)	End Date	(hrs)	(Days)	(bbl)	(bbl/day)	(gallo	n/day)
Average collection to date less									
residual tank	4/12/2019	00:00	12/12/2024	14:26	2071.4	39,180.2	18.9	793.8	gallons/day
Total Collection to date	4/12/2019	00:00	12/12/2024	14:26	2071.4	40,651.2	19.6	823.2	gallons/day

Totals from Pumpoff 1-68

	Bbl	Gal
Net Oil collected	40,651.2	1,707,350.4
Total Oily fluids collected:	45,667.3	1,918,026.6

Appendix 1

MC20 Product Removal and Transportation with Completed Documentation





Attachment A: Dockside Transfer - Transfer of Liquid and Crude Oil in Accordance with Maintenance

Date: _	12-14-24	
Time T	ransfer Ended:	

Column A		Column B	Column C	Column D	Column E
	Residual Tank Volume From Prior Operation (bbl)	On Board the Vessel Tank Strap Measurement Prior to Start of Offloading (bbl)	Onshore Frac Tank Strap Measurement after Offloading (bbl)	Volume of Fluid (Column C-A) (bbl)	% Difference Column (D-B)/D * 100
Tank 1	0	PORT - 333.8	219.2	219.2	
Tank 2	0	STAR- 343.9	235.9	235.9	
Tank 3	0		218.8	218.8	
Total	0	677.7	613.9	613.9	-0.5%

USCG Rep		
Couvillion Rep S		
Legends Rep		
NDC Don		
	Legends Rep	Couvillion Rep S

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Doc #: Couv-O&M-Doc-00004





Attachment B: Port Fourchon Shore Base On-Site Interim Tank Storage Measurements Before Offloading to Tank Trucks (Decanting of Water)

Date: 1-6-25	Time:	
Time Measurements begin after Vessel O	Offloading in hours:	

	Column A	Column B	Column C	Column D
	Tank Strap from Offloading (Initially use Column C from Attach A and on subsequent decants use Column D from this form) bbl	Today's Interim Tank Strap Measurement bbl	Tank Strap Measurement after Decanting bbl	Oily Water Mixture Volume Column (B-C)
Tank 1	219.2			bbl
Tank 2	235.9	219.2	197.1	22.1
Tank 3		235.9	220.0	15.9
a direct	218.8	218.8	214.5	4.3
Total	673.9	673.9	631.6	42.3

Sign-off by: USCG Rep (optio	nal)		
Couvillion Re	ер		
NRC Rep			





Attachment D: Decanted Water from Frac Tanks to Disposal Facility

	Column A	Column B	Column C
	Beginning Tank Strap Measurement bbl	Decant and then Tank Strap Measurement bbl	Volume of oily water transferred to Disposal Facility Column B – Colum using Strap Measurement bbl
Tank 1	219.2	197.1	22.1
Tank 2	235.9	220.0	15.9
Tank 3	218.8	214.5	4.3

Residual Volume left in Tanks

	Strap Measurement bbl
Tank 1	197.1
Tank 2	220.0
Tank 3	214.5

Sign-off by: USCG Rep(Option	nal)		
Couvillion Rep			
NRC Rep			

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Doc #: Couv-O&M-Doc-00004





Attachment D: Decanted Water from Frac Tanks to Disposal Facility

Date: 1-7-25

-	Column A	Column B	Column C
	Beginning Tank Strap Measurement bbl	Decant and then Tank Strap Measurement bbl	Volume of oily water transferred to Disposal Facility Column B – Colum using Strap Measurement bbl
Tank 1	197.1	194.4	
Tank 2	220.0	218.8	2.7
Tank 3	214.5	214.5	0.0

Residual Volume left in Tanks

	Strap Measurement bbl
Tank I	194.4
Tank 2	218.8
Tank 3	214.5

Sign-off by: USCG Rep(Opt	tional)			
Couvillion Rep				
NRC Rep				

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Doc #: Couv-O&M-Doc-00004





Attachment C: WASTE MANAGEMENT TRACKING FORM

Oily Water Transportation and Net Crude Oil

Start Shipments Date:	1-7.25
-----------------------	--------

Manifest Number	Transporter	Truck Number	Date	Receiving Facility	Manifested Volume loaded from Port Fourchon Frac Tank into Truck (bbl from Strap)	Volume received by Buyer (bbt by Strap)	Net Crude Oil bbls (Acadiana Oil Ticket)
	HOL	2001-02	117	MOC-	157.6		all and the second of the seco
2	HOL	2001-01	111	AOC	165.4		The second secon
-							***************************************
-		Manual Prints	-				
	Name Continues and	-					
			-				
					16 - 25-11		*
		-					The state of the s
		Total Vo	olumes Sh	ipped by Gallons/bbls			A Management of Automotive Section 1

End of Simplifients date:		
Sign-off by:USCG Rep (Optional)		
Couvillion Rep		
NRC Rep		

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Doc #: Couv-O&M-Doc-00004

End of Chinmonto data





Attachment C: WASTE MANAGEMENT TRACKING FORM Residual Frac Tank Bottoms

Date: 1-7-25

Residual Volume left in Tanks

	Strap Measurement after Trucks Loaded in each tank bbls
Tank 1	194.4
Tank 2	102.3
Tank 3	8.0

Sign-off by:USCG Rep (Optional				
Couvillion Rep				
NRC Rep				
	1/			

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Doc #: Couv-O&M-Doc-00004





Attachment C: WASTE MANAGEMENT TRACKING FORM

Oily Water Transportation and Net Crude Oil

Start Shipments Date:	1-8-25
-----------------------	--------

Manifest Number	Transporter	Truck Number	Date	Receiving Facility	Manifested Volume loaded from Port Fourchon Frac Tank into Truck (bbl from Strap)	Volume received by Buyer (bbl by Strap)	Net Crude Oil bbls (Acadiana Oil Ticket)
_3	AOL	20102	118	Peri	164.3		And the superpose of th
4	Acc	2001-01	118	au .	124.5		
			-				
			-	4			
					-		
							The series to the series of th
		Total V	olumes Si	hipped by Gallons/bbls			2

End of Simplificing date.		
Sign-off by: USCG Rep (Optional)		
Couvillion Rep		
NRC Rep		
	Page 9 of 15	

Doc #: Couv-O&M-Doc-00004

End of Shipmente dates

Couv-MC20-O&M-RPT-DOC-00093





Attachment C: WASTE MANAGEMENT TRACKING FORM Residual Frac Tank Bottoms

Date:	1-8.25	

Residual Volume left in Tanks

	Strap Measurement after Trucks Loaded in each tank bbls
Tank 1	19
Tank 2	v .0
Tank 3	8,3

Sign-off by:USCG Rep (Optional)			
Couvillion Rep			
NRC Rep			

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Attachment C: WASTE MANAGEMENT TRACKING FORM <u>Transportation Tracking of Petroleum Contaminated Solids</u>

Manifest Number	Transporter	Shipment Date	Receiving Facility	Manifested Volume (Yard)	Scaled Weight (Lb)	Comments (Box Numbers, etc.)
	A	0	Solids			
		***************************************		/# Blattering to a series		

Sign-off by: USCG Rep	p(Optional)		
Couvillion	Rep		
NRC Rep			

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NOTICE: SH	ippers o	SILL OF LADING - S of hazardous materials must e	nter 24-hour e	mergency	Date	-7-25		Bill of L	ading No	1	
response to	elephone	e number under "Emergency F	Response Phone	Number.				Shipper	No	1	
Original-	-Not	Negotiable	A	condiana C	2.1 Com	prop		Carrier	No	1	
TO:				(Name of Ca	FROM:						-
Consignee		Academa Oil Con	1psny		Shipper	Cow	ullio	Pock			
Street		Academa Oil Com 1825 Piver Rd	, ,		Street	55	1 12	dley Bur	nord		
Destinatio		Bowick	Zip Code	70842	Origin			•	ode 703	57	
Route:		Hay 90	Vehicle N	10. 201-02		SCAC			rgency Response Number		255-2924
No. Shipping Units	+HM	Kind of Packaging, Description Special Marks and Excep	Stown Stown	mmodities requiring special ng must be so marked and ny care. See Section 2(e) of	packaged as to en	sure safe transport	ation with	Weight (Subject to Correction)*	Rate or I		CHARGES
157.6	X	WW 1267 Per	rolcum	Conde Oil	, 11	1733		76,000			
VVI											
			1-7								
			151	1 99							
			10			-					
carrier by w	ater, the	law requires that the bill of lading	REMIT C.O.D. TO: ADDRESS		O.D. mt. \$	PRE	D. FEE: PAID	\$	TOTAL CHARGES:	\$	
Note-When	e the rat	e is dependent on value, shippers witing the agreed or declared value	are required to	Subject to Section 7	of the condition	s, if this shipmer	nt is to be	delivered to the cor			HT CHARGES
The agreed	or declar	red value of the property is hereby s not exceeding	pecifically stated	The carrier shall not	signor, the cons	signor shall sign l	the following	ng statement.			opropriate Box:
\$	per co be	per		charges.						☐ Freig	ght prepaid
RECE	IVED, sub		fled tariffs in eff	get on the date of the		(Signature of (Consignor)			☐ Colle	ect
and condition or corporate destination erty, that exthe date hat the terms a shipper and	n of conte on in poss It is mut very service reaf, if the and condit accepted	ect to the classifications and lawfully ents of packages unknown), marked, assision of the property under the country of a cach carrier of a cach carrier of a cach carrier of a cach carrier of the cach carrier of the said or a railwater shipment one of the said bill of lading, set for himself and his assigns.	consigned, and dontract) agrees to ill or any of, said possible subject to all the or [2] in the application the classific	est on the date of the estined as indicated ab carry to its usual place property over all or an ne terms and condition cable motor carrier cla ation or tariff which go	ove which said be of delivery at y portion of said s of the Uniform assification or te overns the trans	Il of Lading, the carrier (the work said destination, if route to destination Domestic Straignff, if this is a sportation of this	property d d carrier t if on its r ation and a ght Bill of motor car shipment.	escribed above in a leing understood the oute, otherwise to to each party at Lading set forth (1) mer shipment. Ship and the said term	apparent good of proughout this of deliver to anoth any time intent) in Uniform Fr apper hereby cer he and condition	order, except contract as more carrier or ested in all of eight Classific titles that he	as noted (contents reaning any person the route to said propositions in effect on its familiar with all agreed to by the
Transportatio	n Regulatio	ons poverning the transportation of become	tour moreovers. The	ise of this column is pa	is format and cont	tent of hazardous its	em list is the	responsibility of indiv	idual com- Not		
Code of Feder prescribed in	ethod for it al Regulati section 17	dentifying hazardous materials on Bills of ons. Also when shipping hazardous mater (2 204(a) of the Federal Regulations, as on from the requirement is provided in the	Leding per 172 201 hals, the shipper's ce indicated on the Bill of	rtification statement tio	72. Subpart C-Ship	ping Papers. Such	description of	responsibility of indiv 49 Code of Federal R consists of the followin ctions 172 202 and ication number, pack	egulations oper Sec-	damage in y be appli	mitation for loss this shipment cable. See 49 Code. Sections



ACADIANA OIL & ENVIRONMENTAL

1206 LEMAIRE ST NEW IBERIA, LA 70560 EMERGENCY CONTACT: 985-851-5055

Correction #: 1

LOAD INFORMATION UN1267 PETROLEUM CRUDE OIL, 3 PG III

BOL#: Ticket #: Trucked By:

Accepted Date/Time:

BS&W(%):

Top Temp:

Bottom Temp:

Observed Temp:

Observed Gravity:

ACADIANA OIL & ENVIRONMENTAL

01/07/2025 04:19 COU2-2359

Conf#:

PICK UP INFORMATION

PickUp Account: PickUp Name:

Split Ticket # w/ #:

Product Type:

Commodity:

Fourchon LA

000002359

CRUDE

000002359101

PickUp Address: Operator: PickUp#:

Federal PickUp #:

Legal Description: Latitude: Longitude:

County, State:: Walt Time Notes: Relect Notes: Other Notes:

Couvillion Group

Couvillion Group

FOURCHON

29.140925 -90.206267 LAFOURCHE, LA

loading

Arrival Date & Time: Load Time:

Wait Time:

Pickup Date & Time: Loaded Miles:

01/07/2025 07:07

01:00 00:06

01/07/2025 08:13

1.00

0

0

46

na

25.0

25.90

01/07/2025 08:12

01/07/2025 08:12

PICK UP Reject Reason:

Load Status: Gauge Type: TANK: Tank Capacity:

Tank BPI: Top Gauge: **Bottom Gauge:** Est. Net Barrels: Est. GSV:

Est. Gross Barrels: **Bottom Height:** ODOMETER: Drop Off Account: Drop Off Name:

Operator:

Drop Off #:

Longitude:

County, State:

Wait Time Notes: Other Notes:

Start Meter Reading:

End Meter Reading:

Metered Volume:

Latitude:

ACCEPT TRAILER MTR1 0.0 0.0 0 ft 0 in 0 in (0,0 in) 155.00 154.36

0 ft 0 in 0 in (0.0 in) 155,9200 0 ft 0 in 0 in (0.0 in) 749252

Corrected Gravity: Seal Off #:

Shell- Gibson Gibson Shell- Gibson 8443 29,630499 -90.931964 TERREBONNE, LA

0.00

155.00

155.0 PICK UP Seal Off Time: Seal On #: Seal On Time: PRODUCT TYPE: DROP OFF INFORMATION

Arrival Date & Time: Unload Time: Wait Time: DropOff Date & Time: 01/07/2025 10:00 00:31 00:00

UN1267 PETROLEUM CRUDE OIL, 3 PG III

01/07/2025 10:31

DROP OFF

Gross Barrels Divd: ODOMETER:

155.00 749341

DROP OFF

RUN TICKET LEGAL STATEMENT

THIS IS TO CERTIFY THAT THE ABOVE NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED, AND LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION, ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION.

NOTICE: SI	nippers o	BILL OF LADING – S of hazardous materials must e number under "Emergency	enter 24-hour e	mergency	Date	1.7-	25	Bill of La		2
		Negotiable		lana al C	omP4n	,		Shipper I		v v
TD: Consigned	A	scadiona O.1 C		(Name of Ca	FROM: Shipper	law	11.22	Pock	VO	
Street		325 Price Rd	or of the second		Street	854		y Bone	rel .	
Destination		Burusek	Zip Code	70842	Origin		,,,		ode Toss	1
Route:		tray 90	Vehicle N	No. 2001-01		SCAC		Emer	gency Response	
No. Shipping Units	+HM	Kind of Packaging, Description Special Marks and Exce	entione stown	mmodities requiring special ng must be so marked and ry care. See Section 2(e) of	peckaged as to ensi	ure safe trans	sportation with	Weight [Subject to	Rate or Clas	
1661	K	UN 1267 Petrok	um Conde		PJ 3	g w Gadania	act, non occ.	17,000		
		11.	5.41	de						
		10								
carrier by wa	ter, the la	es between two ports by a aw requires that the bill of lading is "carrier's or shipper's weight".	REMIT C.O.D. TO: ADDRESS		O.D. mt. \$		C.O.D. FEE: PREPAID COLLECT	\$	TOTAL CHARGES: S	£
Note-Where	the rate	e is dependent on value, shippers nting the agreed or declared value	s are required to	Subject to Section 7	of the conditions	s, if this shi	nment is to be	delivered to the co		FREIGHT CHARGES
The agreed	or declare	ed value of the property is hereby not exceeding		The carrier shall no charges.	t make delivery	of this shi	pment withou	ving statement. It payment of freigi	ht and all other	Check Appropriate Box:
\$		per				(Signatur	e of Consignar	1		☐ Freight prepaid ☐ Collect
		cct to the classifications and lawful ints of packages unknown), marked ession of the property under the c lally agreed as to each carrier of a to be performed hereunder shall is is a rail or a rail-water shipment or the said bill of lading, set f or himself and his assigns.			issue of this Bill love which said of e of delivery at a portion of said s of the Uniform assification or tan overns the transp	of Lading, cerrier (the laid destina route to de Domestic ; lift, if this is portation of	the property word carrier tion, if an its estimation and Straight Bill of a motor car this shipment.	described above in a being understood to route, otherwise to as to each party at Lading set forth (1) ther shipment. Shipp and the said terms	apparent good ordinoughout this condideliver to another any time intereste in Uniform Freigh er hereby ceruhes and conditions and	er. except as noted (contents tract as meaning any person carrier on the route to said of in all or only or sent proper to Clesshotons in effect on that he is familiar with all a hereby agreed to by the
Mark with "RO Transportation an optional mi Code of Feder	of appropriation at Begulation	priate to designate Hazardous Materia is governing the transportation of hazar lentifying hazardous materials on Bills of ons. Also when shipping hazardous mate 2 204(a) of the Federal Regulations, as in from the	f Lading per 172 201	use of this column is pa 1(a)(1) (w) of Title 49 17 artification statement use of Lading does apply. Pr	ny interpretation of 72. Subpart C-Shipp 172. 201 [Haze	requirement ong Papers S ardous Mater e, hazardous	s as described in Such description rial Table) and Sc	e responsibility of individe 49 Code of Federal Re- consists of the following actions 172 202 and 1 incation number, packin	per Sec- 72 203 may b United	hability limitation for loss hage in this shipment e applicable. See 49 States Code. Sections (c [1](A) and (B).



Acadiana Ca

1206 LEMAIRE ST NEW IBERIA, LA 70560

EMERGENCY CONTACT: 985-851-5055

LOAD INFORMATION UN1267 PETROLEUM CRUDE OIL, 3 PG III

Product Type: BOL#:

Split Ticket # w/ #:

Ticket#:

000002358 000002358100 Trucked By: Accepted Date/Time: ACADIANA OIL & ENVIRONMENTAL

Conf #:

COU2-2358

01/07/2025

Commodity: CRUDE

PickUp Account: PickUp Name: PickUp Address:

Operator: PickUp#: Federal PickUp #:

Legal Description: Latitude: Longitude: County, State::

Wait Time Notes: Reject Notes: Other Notes:

PICK UP INFORMATION

Couvillion Group FOURCHON

0.0 0.0

LAFOURCHE, LA

Couvillion Group

Fourchon

Arrival Date & Time: Load Time:

Wait Time: Pickup Date & Time: Loaded Miles:

1,00

0

01/07/2025 00:30 00:00 01/07/2025

999

PICK UP

Load Status: Gauge Type:

TANK: Tank Capacity: Tank BPI: Top Gauge: **Bottom Gauge:** Est. Gross Barrels: Est. Net Barrels: Est. GSV: **Bottom Height:** ODOMETER: Drop Off Account:

ACCEPT TRAILER SWEET 0.0 0.0

0 ft 0 in 0 in (0.0 in) 0 ft 0 in 0 in (0.0 in) 165.40 164.58 166.2400 0 ft 0 in 0 in (0.0 in) 999 Shell- Gibson Gibson

Shell- Gibson

29.630518

-90.93144

8443

Reject Reason: BS&W(%): Top Temp: **Bottom Temp:** Observed Temp: Observed Gravity: Corrected Gravity: Seal Off #: Seal Off Time: Seal On #: Seal On Time: PRODUCT TYPE:

0 48 25.0 25,80 NA

01/07/2025 NA 01/07/2025 UN1267 PETROLEUM CRUDE OIL, 3 PG III

DROP OFF INFORMATION

Drop Off Name: Operator: Drop Off #: Latitude: Longitude: County, State: Wait Time Notes: Other Notes:

Start Meter Reading: End Meter Reading: Metered Volume:

TERREBONNE, LA 0.00 0.00 0.0

Arrival Date & Time: 01/07/2025 Unload Time: 00:30 Wait Time: 00:00 DropOff Date & Time: 01/07/2025

DROP OFF

Gross Barrels Divd: ODOMETER:

0.00 999

PICK UP DROP OFF

RUN TICKET LEGAL STATEMENT

THIS IS TO CERTIFY THAT THE ABOVE NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED, AND LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION, ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION.

TO: Consignee Academa OI Company Shipper Cavallar Tat Street 1875 Raw Rd Street Sty Dadley Baned Destination Barach Zip Code 70842 Origin Zip Code 70851 Route: Hary 90 Vehicle No. 261-02 Shipping HM Kind of Packaging, Description of Articles Storing must be so marked and packaged as to ensure safe transportation with Special Marks and Exceptions and exceptions ordered and packaged as to ensure safe transportation with Special Marks and Exceptions Cardinary care See Section 7(a) of National Mater Freight Cassideration, Iran 360 William Rate or Class CHARGE Control	NOTICE S response	hippers i telephon	BILL OF LADING — S of hazardous materials must e number under "Emergency Negotiable	enter 24-hour en Response Phone	mergency		-8:25	Bill of La Shipper Carrier I	No	3 3	
Street 1875 Rout Rd Special Street 554 Radia Banerd Destination Barack Zip Code 7842 Origin Zip Code 70351 Route: Hay 90 Vehicle No. 201-02 SCAC Emergency Response Phone Number 1-888-25-372 Shipping HM Kind of Packaging, Description of Articles Stowing must be so marked and packaged as to ensure safe transportation with Special Marks and Exceptions Stowing must be so marked and packaged as to ensure safe transportation with Subject to Correction)* Rate or Class CHARGE CASALICITION, No. 11, 23 Mol 11, 23 Mol 11, 23 Mol 11, 23 Mol 11, 23 Mol 11, 23 Mol 11, 23 Mol 11, 23 Mol 11, 23 Mol 11, 23 Mol 11, 23 Mol 11, 23 Mol 11, 23 Mol 11, 24 Mol			traches Oil			FROM:	The state of the s	2 1-			
Destination Bruil Zip Code 70842 Origin Zip Code 70257 Route: Hary 90 Vehicle No. 2w1-v2 SCAC Emergency Response Phone Number 1-988-25-357 Shipping Units Special Marks and Exceptions Stawing must be so marked and packaged as to ensure safe transportation with Subject to Correction)* Weight (Subject to Correction)* Weight (Subject to Correction)* Word Number 1-988-25-357 While I American Section of National Motor Freight Dassification, Item 360 Weight (Subject to Correction)* Word Number 1-988-25-357 While I American Section of National Motor Freight Dassification, Item 360 Weight (Subject to Correction)* Weight (Subject to Correction)* No 1227 Retroitment Conduct 21 11 33 3 11 32 3	Street			- Hall		11 5					
Route: Hay 90 Vehicle No. 201-02 SCAC Emergency Response Phone Number 1-880-255-357 Shipping HHM Kind of Packaging, Description of Articles Scheming must be so marked and packaged as to ensure sele transportation with Special Marks and Exceptions ordinary care See Section 2(e) of National Motor Freight Dasselication, Item 360 Correction)* Rate or Class CHARGE CHARGE AND INC. 11 Pg 3 Why 122 Retrokum Conduct 21 Pg 3 Why 123 Dby	Destination		and the same of th	Zip Code	70842	Origin			ode 7036	7	
No. Shipping Units Special Marks and Exceptions of Articles Special Marks and Exceptions of Articles Special Marks and Exceptions of Articles Special Marks and Exceptions of Articles Stowing must be so marked and packaged as to ensure safe transportation with Subject to Correction). Weight (Subject to Correction). Weight (Subject to Correction). Weight (Subject to Correction). Wording or Special Marks and Exceptions of Articles Stowing must be so marked and packaged as to ensure safe transportation with Correction). Weight (Subject to Correction). Rate or Class CHARGE.	Route:			Vehicle N	10. 2001-02		SCAC				25-3924
164.3 bbs	Shipping	+HM	Kind of Packaging, Description	entione stown	mmodities requiring special	packaged as to e	nsure safe transportation with	Weight (Subject to			CHARGES
164.3 bb)		X	IN 1267 Petroku	un Crudi i	21, 11,	pg 3		71,000			
THE PROPERTY AND ADDRESS OF TAXABLE PROPERTY.				16	4366						
*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading state whether weight is "carrier's or shipper's weight." ADDRESS REMIT C.O.D. TOTAL CHARGES: \$ CHARGES: \$	carrier by v	vater, the	law requires that the bill of lading			.O.D.		\$	TOTAL CHARGES:	\$	
Note-Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding. Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement. The carrier shall not make delivery of this shipment without payment of freight and all other charges. FREIGHT CHARC Check Appropriate Check Appropriat	The agreed	fically in w d or declar	inting the agreed or declared valued value of the property is hereb	ue of the property	The carrier shall no	signor, the cons	signor shall sign the following	ng statement.	3	Check A	Appropriate Box:
\$ (Signature of Consignor)	\$		per		-		(Signature of Consignor)			☐ Col	lect

RECEIVED, subject to the classifications and lawfully filed tanifs in effect on the date of the issue of this Bill of Leding, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classifications in effect on the date hereof, if this is a rail or a rail-water shipment or (2) in the applicable motor carrier classification or tariff, if this is a motor carrier shipment. Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Mark with "RO" if appropriate to designate Hazardous Materials as defined in the U.S. Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials in Bills of Lading per 172 201(a)[1] (iii) of Title 48 Code of Federal Regulations. Also when shipping hazardous materials, the shipper's certification statement prescribed in section 172 204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply indicate a perfect expendition from the requirement is provided in the Regulations, an application.

The format and content of hazerdous item list is the responsibility of individual company interpretation of requirements as described in 49 Code of Federial Regulations 172 Subpart C-Shipping Papers. Such description consists of the following in Sections 172 201 (Hazerdous Material Table) and Sections 172 202 and 172 203 Proper shipping name, hazerdous class. UN identification number, packing it out of substance classifies.

Note: Liability limitation for loss or damage in this shipment may be applicable. See 49 United States Code, Sections 14708(c.[1][A] and [B].



ACADIANA OIL & ENVIRONMENTAL

1206 LEMAIRE ST NEW IBERIA, LA 70560 EMERGENCY CONTACT: 985-851-5055

LOAD INFORMATION

Product Type: BOL#: Ticket#:

000002364 000002364101

UN1267 PETROLEUM CRUDE OIL, 3 PG III Trucked By: Accepted Date/Time:

Conf#:

ACADIANA OIL & ENVIRONMENTAL

01/08/2025 04:13 COU2-2364

Split Ticket # w/ #: Commodity:

CRUDE PickUp Account: Couvillion Group

PickUp Name: PickUp Address: Operator: PickUp#: Federal PickUp #:

LA Couvillion Group FOURCHON

LAFOURCHE, LA

Fourchon

29,141164

-90,206486

Legal Description: Latitude: Longitude:

County, State:: Wait Time Notes: Reject Notes: Other Notes:

PICK UP INFORMATION

Arrival Date & Time: Load Time:

Wait Time: Pickup Date & Time: Loaded Miles:

01/08/2025 06:56 01:00

00:23 01/08/2025 08:19 999

loading

Load Status: Gauge Type: TANK: Tank Capacity: Tank BPI: Top Gauge: **Bottom Gauge:** Est. Gross Barrels: Est. Net Barrels:

Est. GSV: **Bottom Height:** ODOMETER: Drop Off Account: Drop Off Name: Operator:

Drop Off #:

Longitude:

County, State: Walt Time Notes: Other Notes:

Start Meter Reading:

End Meter Reading:

Metered Volume:

Latitude:

ACCEPT TRAILER MTR1 0.0 0.0 155.00 154.22 155.7800 749546

0 ft 0 in 0 in (0.0 in) 0 ft 0 in 0 in (0.0 in) 0 ft 0 in 0 in (0.0 in)

Seal Off #: Seal On #: Seal On Time: PRODUCT TYPE:

Shell-Glbson Gibson Shell- Gibson 8443 29,631842 -90.932943 TERREBONNE, LA

PICK UP Reject Reason: BS&W(%): 1.00 Top Temp: 0 **Bottom Temp:** 0 Observed Temp: 48 Observed Gravity: 24.0 Corrected Gravity: 24.80 na 01/08/2025 08:17 Seal Off Time:

01/08/2025 08:17 UN1267 PETROLEUM CRUDE OIL, 3 PG III

DROP OFF INFORMATION

DROP OFF

Arrival Date & Time: Unload Time:

00:35 Walt Time: DropOff Date & Time: 01/08/2025 10:43

ODOMETER:

Gross Barrels Divd:

00:00

155.00 749634

PICK UP

0.00

155.00

155.0

DROP OFF

01/08/2025 10:08



RUN TICKET LEGAL STATEMENT

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NOTICE: S response	hippers o	SILL OF LADING — Sof hazardous materials must be number under "Emergency Negotiable	enter 24-hour er Response Phone	mergency Number.	Date	1-8	25	Bill of La	ading No	4	
Original	-INUL	ivegotiable	tind	Nama Ol (Name of C	Carrier)	1		Carrier	No	4	
TO: Consigned	A	cadiana Dil (2×26×1		FROM: Shipper	10	milhon	Dis			
Street	1	extended Oil C			Street			ey Bur	icrej		
Destination	on ?	Bowick	Zip Code	70842	Origin			1	ode 753	57	
Route:		Hwy 90	Vehicle N	0. 2001-01		SCAC		Eme	ergency Response	onse	255-3924
No. Shipping Units	+HM	Kind of Packaging, Description Special Marks and Exce	ntione stown	mmodities requiring speci ig must be so marked and y care. See Section 2(e)	d packaged as to	ensure safe tra	ansportation with	Weight (Subject to Correction)*	Rate or (CHARGES
124.5	×	UN 1267 PEtrol	um con	dual,	11 12	3		18,000			
1991									-		
									1		
				1							
			24.5	66							
									-	_	
carrier by v	vater the	res between two ports by a law requires that the bill of lading is "carrier's or shipper's weight".	REMIT C.O.D. TO; ADDRESS		.O.D.		C.O.D. FEE: PREPAID COLLECT	\$	TOTAL CHARGES:	\$	
Note-Whe	re the rat	te is dependent on value, shipper writing the agreed or declared value	s are required to	Subject to Section 7 recourse on the con	of the condition	ns, if this sh	ipment is to be o	delivered to the con	signee without	FREIC	GHT CHARGES
The agreed	d or declar	red value of the property is hereby not exceeding		The carrier shall no charges.					t and all other		ppropriate Box:
\$	-	per		-		(Signatu	ire of Consignor)			☐ Coll	ect
and condition or corporated destination. erty, that even the date her the terms as shipper and a	IVED, subject of contents of contents of contents of the condition	ect to the classifications and lawfull ints of packages unknown), marked ession of the property under the cually agreed as to each carrier of a e to be performed hereunder shall is a a rail or a rail-water shipment ons of the said bill of lading, set for or himself and his assigns.	y filed tariffs in effer, consigned, and de ontract) agrees to it all or any of, said p be subject to all the or (2) in the applicant in the classification.	ect on the date of the estined as indicated a carry to its usual place roperty over all or an et terms and condition cable motor carrier of ation or tariff which g	a issue of this labove which saide of delivery any portion of sains of the Unifollassification or governs the tra	Bill of Lading d carrier (the transfer to desting the carrier of t	the property de word carrier batton, if on its relation and a straight Bill of its a motor carof this shipment,	escribed above in a being understood th oute, otherwise to is to each party at Lading set forth (1 mer shipment. Ship and the said term	apparent good or proughout this condenser to anoth deliver to anoth any time interes in Uniform Froper hereby cert and condition	orden except contract as in er carrier of ested in all eight Classif thes that his are here!	as noted (contents nearing any person in the route to said or any of said prop- ications in effect on a is familiar with all by agreed to by the
Mark with "RI Transportation an optional me Code of Feder prescribed in	a' if approp Regulation athod for id- al Regulation section 172	priate to designate Hazardous Materiol is governing the transportation of hazar entifying hazardous materials on Bills of its Also when shipping hazardous mater 204(a) of the Federal Regulations, as a from the requirement is provided in the	s as defined in the L dous materials. The us Lading per 172 2011 hals, the shipper's cer indicated on the Bill of	J.S. Department of J. See of this column is paint [1] [m] of Title 49 1 tricution statement of Leding does apply F.	the formal and co sany interpretation 172. Subpart CSI ions 172.201 (H	intent of hazar of requirement hipping Popers lazardius Mat ame, hazardo	dous dem list is the nts as described in Such description serial Table I and Se	e responsibility of mile 49 Code of Federal Promises of the follow- comises of the follow- coons 1/2 202 and dication number, park	And Section 1970	e Liability damage i	limitation for loss in this shipment licable. See 49 c Code. Sections



ACADIANA OIL & ENVIRONMENTAL

1206 LEMAIRE ST NEW IBERIA, LA 70560 EMERGENCY CONTACT: 985-851-5055

Correction #: 1 LOAD INFORMATION

Product Type:

UN1267 PETROLEUM CRUDE OIL, 3 PG III

BOL#:

000002363 000002363101 Trucked By: Accepted Date/Time: ACADIANA OIL & ENVIRONMENTAL

Ticket#:

Split Ticket # w/ #:

Conf#:

01/08/2025 09:03

COU2-2363

1.00

0

0

48

na

24.0

24.80

01/08/2025 09:38

01/08/2025 09:38

Commodity:

CRUDE

Couvillion Group Fourthon LA

Couvillion Group

LAFOURCHE, LA

FOURCHON

29.141206

-90.20637

PickUp Account: PickUp Name: PickUp Address:

Operator: PickUp#:

Federal PickUp #:

Legal Description: Latitude:

Longitude: County, State;

Wait Time Notes:

PICK UP INFORMATION

Arrival Date & Time:

Load Time: Walt Time:

Pickup Date & Time:

Loaded Miles:

01/08/2025 09:04 00:34

00:00 01/08/2025 09:38

999

Reject Notes: Other Notes:

PICK UP

Load Status: Gauge Type: TANK: Tank Capacity: Tank BPI: Top Gauge:

Bottom Gauge: Est. Gross Barrels: Est. Net Barrels:

Est. GSV: **Bottom Height:** ODOMETER:

Drop Off Account:

Drop Off Name:

Operator:

Drop Off #:

Longitude:

County, State:

Wait Time Notes: Other Notes:

Start Meter Reading:

End Meter Reading:

Metered Volume:

Latitude:

ACCEPT TRAILER MTR1 0.0 0.0 0 ft 0 in 0 in (0.0 in) 0 ft 0 in 0 in (0.0 in) 124.00 123,37 124.6200

0 ft 0 in 0 in (0.0 in) 597481 Shell-Gibson

Seal Off #: Seal Off Time: Seal On #:

Seal On Time: PRODUCT TYPE: DROP OFF INFORMATION

Reject Reason:

Bottom Temp:

Observed Temp:

Observed Gravity:

Corrected Gravity:

BS&W(%):

Top Temp:

Gibson Shell-Gibson 8443 29,982197 -91.769954 TERREBONNE, LA Arrival Date & Time: Unload Time:

Wait Time: DropOff Date & Time: 01/08/2025 13:05 00:01

00:00

UN1267 PETROLEUM CRUDE OIL, 3 PG III

01/08/2025 13:06

DROP OFF

0.00 124.00

124.0

Gross Barrels Dlvd: ODOMETER:

124.00 597636

PICK UP

DROP OFF



RUN TICKET LEGAL STATEMENT

THIS IS TO CERTIFY THAT THE ABOVE NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED, AND LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION, ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION.

Appendix II

NRC Waste Handling Documentation



DECLARATION OF INSPECTION	ON PRIOR TO BULK CAI	RGO TRAN	SFER			
Date: 12-14-24 Location: 6 T.	S Dack					
Facility/Vehicle Number:		rt Time En	d Time			
			u i ime			
Vessel Name: Brown Ourdelan		:00				
Vessel Official Number:	Vessel Capacity (To	tal) (bbls): 125	.0			
Product Transferred: Crute	Est. Transfer Volum	ne (bbls): 6 76)			
Note For Emergency Not	ification Discharge amounts (Gallo	ons):				
Average most probable:						
Maximum most probable:						
Worst case discharge:						
The following list refers to requirements se	t fouth in detail in 22 CVD 156 150	and 46 CED 25	25.20			
 The spaces on the left are to be reviewed by 	ALL PIC's involved in the transfer	and checked in a	igreement.			
 The right hand columns are to be initialed by 	the appropriate PIC and/or noted a	e not annlicable	with (N/A)			
			with (18/73).			
Items on the list are provided to indicate that	t the detailed requirements have bee	n met				
☑ TOPE	C	PIC	PIC			
The state of the s		Delivering	Regeiving			
Verify PIC designation/qualification 33 CFR 15		4	30			
Person In Charge (PIC): In Immediate Vicinity	and Available	cr	35			
Personnel: Capable/Unimpaired	a	03				
Name, title and location of each person participa		co	00			
MC 20 Subsea Storage Offloading Operations & procedures and particulars of the transfer and rec		God				
with key personnel involved in these operations	cerving systems to be followed and veri	W W	12			
Watch and shift arrangements discussed		cr	28			
Cargo is Authorized for transfer to or from tank	S	cr	Jis			
Discuss if transfer will need to stopped to chang		cr	70 70 70			
Discuss transfer rates and max allowable to rece		ir	13			
(Facility/Vessel) properly vented (monitoring va	cuum and positive tanks pressure)	cr	13			
Communications & No Language Barrier		cr	13			
§ Hoses and Connection - 33CFR 154.500						
Nonmetallic hoses usable for oil or hazardous m	aterial service	cr	JB			
Proper connections (must be one of the followin	g):	a	18			
Fusion 100 hammer union connections		cr	JB			
Quick-disconnect coupling present on suction si	de of pump	cr	Jo			
Examine transfer hose markings or records.	LOTE II SHALL THE REPORT OF THE PARTY OF THE	cr	3/3			
Name of product handled; example "OIL SERV		00	B			
§ Examine Transfer Hose condition - 33CFR 156.17		14 =				
No unrepaired kinks, bulges, soft spots, loose co		cr	303			
No external/internal deterioration	No cuts, slashes, or gouges that penetrate the first layer of hose reinforcement					
		C	(I)			
§ Emergency shutdown - 33CFR 156.170			1/2			
Test emergency shutdown - 33CFR 154.550 -	who controls the emergency shutdown	0	V			
Communication system continuously operated. Verify operating properly (Electric, pneumatic, or	or machanigal link to facility alcatronia	0	0			
voice)	inechanical link to facility, electronic	N	V3			
Record test info in physical information.			JB			
§ Examine closure device - 33CFR 154.520						
Verify enough to blank off ends of each hose /lo.	ading arm not connected for transfer	0	43			
§ Inspect Small Discharge Containment - 33CFR 15		17				
Inspect handling area and verify canacity (not le		1	(V)			



Inspect discharge containment equipment for oil & hazardous liquids - 33CFR 154.54 Verify booming for oil or hazmat transfer (if required by COTP). Verify adequate amount of equipment and/or absorbent material for initial response Inspect condition of response equipment stored on facility (if applicable). Verify availability of at least 200 feet of containment boom onsite within 1 hour. Verify means of deployment. Means of Communication - 33 CFR 154.560 Verify continuous two-way voice communication between vessel and facility PICs. Communications must meet the following requirements Portable Radio: 1F Flammable or Combustible Liquids 1. Marked or documented as intrinsically safe. 2. Certified as intrinsically safe by national testing labor certification organization. Voice		PIC Receiving
Verify booming for oil or hazmat transfer (if required by COTP). Verify adequate amount of equipment and/or absorbent material for initial response Inspect condition of response equipment stored on facility (if applicable). Verify availability of at least 200 feet of containment boom onsite within 1 hour. Verify means of deployment. Weans of Communication - 33 CFR 154.560 Verify continuous two-way voice communication between vessel and facility PICs. Communications must meet the following requirements Portable Radio: If Flammable or Combustible Liquids 1. Marked or documented as intrinsically safe. 2. Certified as intrinsically safe by national testing labor certification organization.		Jiš Jiš Jiš Jib
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Certified as intrinsically safe by national testing labor certification organization.	c	18
	or	S
1. Be audible.	or	SB
Test communications. SAT Z UNSAT	0	JB
Inspect lighting systems - 33 CFR 154.570		
Verify portable lighting for operations between sunrise and sunset (if applicable).	0	50
At transfer operations work areas for facility and vessel	0	30
At transfer operations work areas for facility and vessel	0	18
Verify sufficient number or fire extinguishers.	-	35
Verify protective equipment is ready to operate.	0	43
Verify warning signs are adequate.	0	43
§ VESSEL ONLY - 155,730 Compliance with VESSEL TRANSFER PR	OCEDUDES 8	
PIC for vessel/operator is required by \$155.720 to have current transfer procedures Require vessel personnel to use the transfer procedures for each transfer operation Available for inspection by the COTP or OCMI whenever the vessel is in operation Legibly printed language(s) understood by personnel engaged in transfer operation Permanently posted or available and used by members of crew engaged in transfer ope Appropriate tank level monitoring (visual, gauging, indicators, etc.) Arrangements to monitor draft marks during transfer Transfer Piping Line diagram, location of each valve, pump, control device, vent, and Shutoff valve location or isolation device separating bilge or ballast from the transfer's Adequate containment on the vessel at loading or discharge connection Drains, Scuppers and overboard discharges closed The number of persons required to be on duty during transfer operations; Procedures for emptying discharge containment system required by §§155.310 and 15; Procedures for tending the vessel's moorings during the transfer of oil or hazardous ma Procedures for emergency shutdown/communications required by §§155.780 and 155. Procedures ensuring all valves used during transfer are closed upon completion of tran I do certify that I have personally inspected this facility or vessel with referen	overflow system 5.320 aterial 785	

DECLARATION OF INSPECTION

NAME OF XESSEL An oil transfer operation may not commence to or from a vessel unless the following the respective transferring and receiving persons in charge. Persons in charge indicate by a check (V), in the appropriate spaces, that the services in charge indicate by a check (V), in the appropriate spaces, that the services in charge indicate by a check (V), in the appropriate spaces, that the services in charge indicate by a check (V), in the appropriate spaces, that the services in charge indicate by a check (V), in the appropriate spaces, that the services in charge indicate by a check (V), in the appropriate spaces, that the services in charge indicate by a check (V), in the appropriate spaces, that the services in charge. Persons in charge indicate by a check (V), in the appropriate spaces, that the services in charge. Persons in charge indicate by a check (V), in the appropriate spaces, that the services in charge. Persons in charge indicate by a check (V), in the appropriate spaces, that the services in charge. Persons in charge indicate by a check (V), in the appropriate spaces, that the services in charge. Persons in charge indicate by a check (V), in the appropriate spaces, that the services in charge. Persons in charge indicate by a check (V), in the appropriate spaces, that the services in charge. Persons in charge. Pers	pecific requirement has be couplings. g oil. (Additional checks she transfer operation is bless using gaskets and a bolt fixed loading systems per ed position.	ret and agreed upon een met. FACILITY 50 53 53 53 shall JB lanked in waiver
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G. The overboard or sea suction valves are sealed or lashed in the close. H. Adequate spill containments have been provided for couplings	ed position	
 H. Adequate spill containments have been provided for couplings 		····· 73
I. All scuppers or other overboard drains are closed or plugged		
J. A communications system is provided between the facility and the v		
K. Emergency shutdown system is available and operable		
L. Communication procedures are established and understood between	persons in charge	
M. Qualified and designated personnel are in charge and on duty at the		
N. One person at the vessel control station is present who fluently spea		minal control 33
station		
O. The owner of the cargo hoses will insure test requirements have been		
covers, kinks, bulges, soft spots or gouges, cuts and slashes which p that hoses are marked for identification and test data is maintained i		
P. Adequate lighting of the vessel and terminal work areas and manifo		
Q. Persons in charge have held a conference to assure the mutual unde	retanding of the following	transfer operations
1. Product identity to be transferred.	astanding of the fortering	s transier operations
3. Transfer rate of flow		JA
4. Name or title and location of each person participating in the tran	nsfer operation	J3
5. Particulars of the transferring and receiving systems		
6. Starting, stripping, topping and shutdown have been discussed an	nd understood	W
7. Emergency procedures including notification, containment and c	leanup of spills	
9. Notification before leaving stations		
The following items are to be filled out by Vessel personnel only.		
1 W		
1. Warning signs and read warning signals (35.35-30).		
2. Repair work authorization (35.35-30)		
5. Safe smoking space (35.35-30).		
, , i.o. date amoving space (55.55-50).		
certify that I have read, understand and agree with the foregoing as marked a	and agree to begin/continu	e the transfer operat

The operator of each facility and the operator of each vessel shall retain a signed copy for at least a month.





SAFETY MANAGEMENT SYSTEM

SAFETY

Job Hazard Analysis Revision: 08/2015

			SUMMARY OF POTENTIAL HAZA	ARDS (Check	capplicable)			
Heavy or a movement	wkward lifting /		Pinch Points or caught between	en	Working and wall	king surfaces; slip, trip, fall		
☐ New / Inex	perienced employe	es	Spill / containment			onment		
Struck by c	or crush hazard		Noise levels (>85 dBA)					
	liquids, vapors, was	ste	Elevated surfaces / Fall / Ladd	ers	To the second			
			APPLICABLE REGULATION	-	LERTS			
☐ SMS 19.2 V	/acuum Trucks							
		M	INIMUM PERSONAL PROTECTIVE EC	DUIPMENT	(Check applicable)			
Level A	☐ Hard Hat		High Visibility Vest	□ Leather Steel Toe Boots □ PFD / Work vest				
Level B	Safety Glasse	25	□ Long Sleeves / Coveralls	☐ Disposable boot covers				
☐ Level C ☐ Face Shield ☐ Level D ☐ Hearing Protection			Chemical protective clothing	The state of the s	rene Steel Toe Boots			
		Respirator:	Glove					
Mercia	Z ricaling riot	CCLIOII	JOB HAZARD A		**			
O Jo	ob Steps		Potential Hazards	TALISIS.	Preventive Mea	sures / Special PPE		
	ob Meetings vior Based Safety	o o • P h	ersonnel do not understand the perational plan, relevant hazards r their roles/responsibilities ersonnel do not stop work when azards are identified ersonnel do not report injuries, lnesses, near misses or incidents	•)	to all involved personne will be encouraged to as any project details (mmediate supervisor will Authority and Responsib supervisor if they discov	ed to report any injuries, illnesses,		
Equipment Set-up ha Eco or Important Set-up ha Eco or Important Set-up ha Eco or Important Set-up ha Eco or Important Set-up ha Important Set-up ha Eco or Important Set-up ha Important S		Uneven working surfaces and trip hazards. Equipment not certified, not tested or damaged Improper set-up due to untrained or unqualified personnel		Inspect site for correctable walking surface hazards. Flat correct unsafe conditions. Position equipment and he away from travel paths. Identify "no-go" areas. All equipment will be inspected for current certification testing and serviceable working condition prior to wo Personnel will be pre-selected to perform tasks based werified competency				
		st v. • V m	ersonnel, equipment or hoses truck or crushed by moving ehicles or equipment ehicles not inspected prior to novements. Unsafe for travel. Insecured items create dropped bject or road hazards.	•)	Ground guides will be us Non-essential personne path will be confirmed Vehicles will be inspecte after travel for potentia Vehicles will be inspecte	ed for equipment movements. It will clear the travel path. Travel as clear prior to movements. It by drivers prior to travel and all damage. It to ensure that there are no adds are secured properly.		
		 Personnel struck by thrown lines or caught in "line of fire". Personnel pinched or crushed during vessel movements. 		• 1	When tossing the moorin to fall on the ground and catch mooring lines from When mooring the vessel other body parts from body body body body believer work alone. All per are required to wear a Uman overboard" proceed and recovery plan in pla	g lines to the shore allow the lines of pick them up. Do not attempt to the M/V. I keep hands, fingers, arms, and all etween the mooring line and the sonnel within 5' of the docks edge JSCG approved PFD. Always discuss dures prior to work. Have life ring ce.		
'5, Conn	ecting hoses	• P o d h	ersonnel crushed or pinched while connecting transfer hoses. ersonnel suffer back strain or ther ergonomic related injuries uring connections or moving oses	•	including cam-lock conn parts or equipment Transfer hoses can be he hoses employees shall u including keeping your b as lifting with your knee	d avoid all crush/pinch points: ections, vehicles and other moving eavy and when handling these use proper ergonomic practices pack as straight as possible as well and not your back		



SAFETY MANAGEMENT SYSTEM



Job Hazard Analysis

O Job Steps	Potential Hazards	Preventive Measures / Special PPE
		awareness when walking in the dock area. Try to run hoses in an area that is out of the normal walking path and go around if possible
 Working in potentially hazardous atmospheres 	Personnel exposed to hazards related to hazardous atmospheres. Ignition sources create potential for explosive conditions Personnel not equipped to suppress incipient fire	 Calibrated multi-gas meters/detectors will be used to confirm that LEL's, CO and other gases are within safe range for pumping and transfer operations. Operations will transfer operations will stop immediately if LEL's or Carbon Monoxide levels become elevated A protective distance of 100' outside shoreside transfer will be identified, and marked with caution tape and warning signs, to prohibit smoking, sparks and any potential source of ignition within the transfer area perimeter. The M/V will suspend all similar activities for the duration of transfer operations. Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.
 Energizing pneumatic equipment 	Personnel înjured when struck by hoses or pressure during hose connection or fitting failure. Air leaks or blowout causing pressure related injuries. Hearing loss/injury due to noise levels above 85 decibels	 All pressurized hoses will have whip checks and safety clips installed prior to energizing. All pneumatic hoses will be inspected prior to use. Pumping operations will be stopped immediately if leaks are detected during operations. Defective hoses will be replaced with new hoses/whips. Hearing protection will be worn in all areas where highnoise machinery and equipment is being operated.
8. Transfer of recovered crude oil	Personnel contacted by crude oil spray or environmental release. Overfilling tank resulting in spills Personnel overcome by potentially hazardous vapors	 All transfer hoses used will be inspected, certified and tester prior to use. They will be secured with safety clips and wrapped with absorbent pads and duct tape. Polypropylen line will be used as an added retention measure. Personne will wear Level D PPE and increase protection as appropriate. Spill control kits/supplies will be available on site. The DOI Declaration of Inspection will be completed prior to operations. Prior to transfer the amount of product that can be accepte will be calculated and the PIC will ensure that there is ample room to handle the transferred product. Crude oil is a mixture of various hydrocarbons. Among their can be benzene, hydrogen sulfide, and other chemicals. There will be a properly calibrated and bump tested 4-gas meter on site during transfer to ensure vapors aren't present. All work will stop if hazardous gasses are detected. PPE will be upgraded according to the concentration of hazards detected. If personnel will work at heights above 6': fall protection will be worn and a rescue plan will be in place. Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.
9. Transfer of oil into transporter	Personnel contacted by crude oil spray or environmental release Overfilling transportation vessel resulting in spills Personnel overcome by potentially hazardous vapors Fall hazards present if personnel are working above 6 feet	 All transfer hoses used will be inspected, certified and tester prior to use. They will be secured with safety clips and wrapped with absorbent pads and duct tape. Polypropyler line will be used as an added retention measure. Personne will wear Level D PPE and increase protection as appropriate. Spill control kits/supplies will be available on site. Prior to transfer the amount of product that can be accepte will be calculated and the PIC will ensure that there is ample room to handle the transferred product. Crude oil is a mixture of various hydrocarbons. Among the can be benzene, hydrogen sulfide, and other chemicals. There will be a properly calibrated and bump tested 4-gas meter on site during transfer to ensure vapors aren't present. All work will stop if hazardous gasses are





Job Hazard Analysis

Revision: 08/2015

O Job Steps	Potential Hazards	Preventive Measures / Special PPE
		 detected. PPE will be upgraded according to the concentration of hazards detected. If personnel will work at heights above 6': fall protection will be worn and a rescue plan will be in place. Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.
Prolonged exposure to elements (Heat Stress)	 Inadequate hydration Extended work periods without rest resulting in heat stress 	 Personnel will be encouraged to hydrate frequently. Water to sports drink ratio will be 3:1 (1 sports drink to 3 waters consumed). Work to rest schedules will be determined based on the ambient temperature, acclimatization of personnel and work being performed. Heat stress potential and signs/symptoms will be discussed at all safety meetings, tailgate meetings and during breaks. Personnel will be encouraged to self-report any early symptoms of heat stress. All personnel will be advised that stop work authority applies to potential heat stress symptoms they may be experiencing, (or that they suspect with coworkers).
11. Break time	Potential for ingestion of petroleum product or other contaminants. Fire hazards from unrestricted smoking Direct sun reduces recovery time for workers during breaks Inadequate water	 Personnel will wash hands before smoking, eating, drinking or any other activity where contaminants might be ingested. This hazard will be stressed in break areas. Only smoke in designated areas. Ensure that break areas have adequate shade and cooling potential for personnel Personnel are more likely to hydrate when cool water is available. Ensure an adequate supply and include sports drinks with electrolytes to be consumed sparingly.
12. Decontaminate Personnel	Potential for secondary contamination by absorption, injection, or ingestion	 Follow decontamination plan for clothing removal and disposal when protective outerwear is required and becomes contaminated. Only use safety scissors (never knives) to cut Tyvek from personnel. Ensure that workers wash hands and face thoroughly.
NRC INCIDENT REPORTING POLICY	 First Aid O5HA recordable Illness/Injury Near Miss Equipment/Vehicle Damage 	 NRC employees and subcontractors are required to immediately report all incidents to their supervisor. The immediate supervisor will immediately report the incident to the site safety professional, HSEQ Manager, and Project Manager. As soon as possible the affected employee will complete the required form, if an injury then the first report of injury; if near miss, then a near miss / safety suggestion form will be completed. The supervisor will complete a root cause analysis of all reported incidents and submit to the HSEQ manager within 8 hours of an incident. Determination will be made regarding need for post-incident drug and alcohol testing based on NRC policy. Contact HSEQ Manager for proper USCG reports, if needed and what report is needed.

REVIEW

		REVIEW		
Development Team	Position/Title	Reviewed By	Position/Title	Date
	AC	KNOWLEDGEMENT		
Employee N	ame	/ Signature		Date
1				



Revision: 08/2015

Job Hazard Analysis

4





SAFETY IT'S THE WAY TO GO

Site Specific Safety Plan

Project Name: MC20 Recovered Crude Oil Transfer

Revision: 08/2019

Shore side NRC Project Manager	Jesse Bridges (985) 502-7190			
Director of Marine Ops	David Kendall (281) 914-6577			
Director of Operations	Ray Mc Coy (631) 236-2512			
Yard Manager	Darryl Prout (985) 396-4518			
H&S Program Manager	Peter Brause, CSP (310) 387-2639			
VP Health & Safety	Ken Koppler, CIH, CSP (971) 285-0450			
Hospital / Medical Intervention	Lady of the Sea Hospital: Galliano, LA (985) 632-6401			

□ Land Emergency Response □ Marine Emergency Response □ Land Service ☑ Marine Service SITE DESCRIPTION / WORK SUMMARY					
The site is the Port Fourchon Facility: 554 Dudley Be	ernard Rd. Port Fourchon, LA. 70357 (985) 396-4518				
collecting crude oil from the location and storing it of	the well located at MC20 project. The M/V_B3 has been on Marine Portable Tanks (MPTs) located on her deck. The vessel will ensfer the recovered crude from the MPTs on her deck to double				
Once the frac tanks on the Port Fourchon docks are transporter trailers to be sent to its final destination	ready for transfer the crude will then be transferred into bulk				

SCOPE OF WORK

The M/V will send a 100′ section of 3-inch petroleum duty hose to the dock where it will be connected to the hoses leading to a properly rated and tested manifold. The manifold has one inlet and three outlets. Each outlet will be fitted with a 3-inch transfer hose and affixed to the frac tanks. Once the connections are secured and the declaration of inspection (DOI) is complete, the vessel will transfer the crude oil in her tanks using a 4-inch pneumatic diaphragm pump. As the frac tanks near capacity the dockside operator will open the next manifold valve and close the active one. This process will continue until all three frac tanks are at capacity. Once the transfer is complete a 1-inch airline with the proper fitting will be given to the M/V's crew to send compressed air up the hose to "blow down" any residual product left in the hoses to ensure no product is spilled when the hoses are disconnected.

After the crude oil sits in the frac tank at the Port Fourchon Dock for 12 to 24 hours the crude oil will be pumped using a 3-inch pneumatic diaphragm pump to transport trailers to be sent to final destination.



Revision: 08/2019

Project Name:

Site Specific Safety Plan MC20 Recovered Crude Oil Transfer

EQUIPMENT

- Air Compressor (One aboard the M/V_ - One on Port Fourchon Facility Properties)
- 4-inch pneumatic diaphragm pumps
- Petroleum Duty transfer hoses rated and inspected accordingly Safety Clips for Cam-lock connections and Chicago fittings
- Containment pans for diaphragm pumps and each hose connection (on the deck of the M/V as well as the Port Fourchon Facility Dock)
- Sorbent pads / Polly to wrap around each hose connection as spill prevention
- Whip Checks for each air line connection coming from the air compressor
- Intrinsically safe handheld VHF radios (Means of Communication between PIC of vessel and PIC of dock)
- Supplied Air Breathing System

ATTACHMENTS

ttachment :	TITLE	Attachment	Till
Α	Safety Data Sheets	F	Diagram of dock layout
В	SMS 8.1.5 Daily Safety Meeting form - Maritime		
С	SMS 13.2 Respiratory Protection		
D	Incident / Near Miss / RCA		
E	DOI		



Revision: 08/2019

Site Specific Safety Plan
Project Name: MC20 Recovered Crude Oil Transfer

CHEMICAL INFORMATION

CHEMICAL / CAS	CHEMICAL PROPERTIES	EXPOSURE LIMITS Action Levels	ROUTES OF ENTRY	May include eye, nose and throat irritation, digestive tract, nausea, vomiting, diarrhea, headache, drowsiness, dizziness, loss of coordination, disorientation and fatigue	
Crude Oil	VP (mmHg): 2.6-6.2lbs @ 100F VD (Air=1): >1 BP: -54 to 1100F SG: 0.8939 PV: 1-50 FP: <24 F Estimated LEL: 1.1 UEL: 7.3 Appearance; thick light yellow to dark black	Oil Mist, If Generated ACGIH TWA: 5mg/m3 STEL: 10mg/m3 OSHA TWA: 5mg/m3 NIOSH IDLH:2500mg/m3	X Inhalation X Ingestion X Contact		
Hydrogen Sulfide	Strong rotten egg odor at low levels, rapidly deadens the sense of smell at higher concentrations. Highly flammable - LEL is 4.3%	10 PPM – OSHA PEL Above 10 PPM – Level B PPE required in work area. IDLH = 100 PPM	X Inhalation Ingestion Absorption Contact	Headache, Nausea, irritation to the eyes, nose, or throat. Death if exposed to high concentrations of Hydrogen Sulfide.	
Benzene / 71-43-2	S.G. = 0.88 FP = 12 F LEL: 1.2% UEL = 7.8%	ACGIH TWA: 0.5 ppm OSHA TWA: 1 ppm IDLH: 500ppm	X Inhalation X Ingestion X Absorption X Contact	Irritation to the eyes, skin, nose and respiratory system. Dizziness, headache, nausea, staggered gait; bone marrow depressive	





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PERSONAL PROTECTIVE EQUIPMENT

TASK	Level	MASK / CARTRIDGE / AIR	ADDITIONAL PPE
Mooring Vessel	D	N/A	Level D PPE with the addition of an approved PFD when working within 5' of the docks edge
Connecting hoses	D	N/A	Level D PPE with the addition of an approved PFD when working within 5' of the docks edge
Completing inspection	D	N/A	Level D PPE with the addition of an approved PFD when working within 5' of the docks edge
Transfer operations	D	Level C or Level B may be needed based on air monitoring results.	Level D PPE (unless readings indicate a need to upgrade PPE to level C respiratory protection) with the addition of an approved PFD when working within 5' of docks edge. If H2S is detected above 5 ppm Level B PPE (supplied air respirators) will be used. Operations will be suspended if H2S levels reach 100ppm.
Ass.			
	11911		

RESPIRATORY PROTECTION PLAN

The NRC SMS Procedure 13.2 for Respiratory Protection is provided in **Attachment_C**





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Site Specific Safety Plan
Project Name: MC20 Recovered Crude Oil Transfer

AIR MONITORING / ACTION LEVELS

Chemical Hazard	Instrument	Action Level	Action
Oxygen (O ₂)	4-gas	<19.5% or >23.5%	 Stop work, determine source of hazard and apply engineering control (ventilation) until reading can be brought to 21% +/- 1%.
Carbon Monoxide (CO)	4-gas	25 ppm	 Stop work, determine source of hazard and apply engineering controls. Upgrade PPE as necessary.
Lower Explosion Limit (LEL)	4-gas	>10%	 Stop work, determine source of hazard and apply engineering control (ventilation) until reading can be brought below 10%.
Hydrogen Sulfide (H2S)	4-gas	10 ppm >10 ppm	OSHA PEL SCBA / Supplied Air Respiratory Protection
PID/VOC	PID	10 - 750 ppm >750	Don level C PPE APR w/OV cartridge (Check Benzene Levels, if Benzene levels are below 0.5 Respiratory protection may be reduced SCBA / Supplied Air Respiratory Protection
Benzene	Colorimetric Tube	<0.5 PPM 0.5 – 25 PPM >25 PPM	 No Respiratory requirement Full Face APR with OV Cartridges SCBA / Supplied Air Respiratory Protection



SAFETY

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ACTIVITY HAZARD ANALYSIS / SUMMARY

ITEM	HAZARD	PREVENTION
Behavioral Based Safety	Hazard Identification Stop Work Authority Near Miss	 Immediate supervisor will remind their crews of their Authority and Responsibility to Stop work and contact their supervisor if they discover a hazard Safety officer to coordinate with work crew safety leads Daily HASP / Tailgate meetings will be conducted with the crew. Report all near misses, at risk conditions on the job site, or at-risk actions by crew member. Discuss all reported near misses during the post job briefing and during Daily HASP / Tailgate meetings.
Mooring M/V	Struck by Pinched by Fall into water	 When tossing the mooring lines to the shore allow the lines to fall on the ground and pick them up. Do not attempt to catch mooring lines from the M/V. When mooring the vessel, keep hands, fingers, arms, and all other body parts from between the mooring line and the bits on the dock. Never perform this task alone and all personnel within 5' of the docks edge are required to wear a USCG approved PFD.
Connecting Hoses	Caught / pinched by Back / muscle strain Slip / Trip / Fall	 Identify, communicate, and avoid all pinch / crush points including, but not limited to - cam lock connections, trucks backing / parking, other mobile equipment on the dock. Transfer hoses can be heavy and when handling these hoses employees shall use proper ergonomic practices including keeping your back as straight as possible as well as lifting with your knees and not your back. Observe good housekeeping and maintain situational awareness when walking in the dock area. Try to run hoses in an area that is out of the normal walking path and go around if possible.
Energizing pneumatic equipment	Hose whipping Air Leak Noise levels above 85 decibels	 Ensure all connections have whip checks and safety clips in place prior to energizing air lines. If hissing is hear there is a leak in the line and the compressor should be de-energized and the leaking hoses / connections should be replaced prior to continuing operation. Hearing protection required for pneumatic equipment.
Transfer of recovered crude oil	Spill / spray crude oil on employee. Overfilling of frac tank Overcome by vapors Hydrogen Sulfide (H2S) Detected during transfer.	 All hose connections shall be secured with safety clips, then wrapped in sorbent pads and duct tape and rope to prevent spills or contamination of individuals. There will be no hose connections over water and all connections will also be in secondary containment. Prior to transfer the amount of product that can be accepted will be calculated and the PIC of the dock facility will ensure that there is ample room to handle the transferred product. Crude oil is a mixture of all sorts of hydrocarbons. Among them can be benzene, hydrogen sulfide, and other chemicals. There will be a properly calibrated and bump tested 4-gas meter with PID on site during transfer to ensure vapors aren't present. If vapors become an issue, all work will stop and PPE will be upgraded according to the chart found on page 5 of this document. All personnel involved in the transfer process will be wearing a personal H2S Detector worn in their breathing zone. If H2S is detected above 5 PPM, the operations will stop, and all essential personnel will don their Supplied Air Respiratory Protection (SAR) and evacuate all non-essential



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ITEM	HAZARD	PREVENTION			
		 personnel from the area during the transfer. There will be support personnel upwind with SAR capabilities on site for rescue purposes during this operation. If H2S is detected above the IDLH (100 PPM) then stop work authority will be used, all personnel will evacuate the work area and move to an upwind, safe location until the levels are below 100 PPM. 			
Transfer of oil into transporter	Spill / spray crude oil on employee. Overfilling of frac tank Overcome by vapors	 All hose connections shall be secured with safety clips, then wrapped in sorbent pads and duct tape and rope to prevent spills or contamination of individuals. There will be no hose connections over water and all connections will also be in secondary containment. Prior to transfer the amount of product that can be accepted will be calculated and the PIC of the dock facility will ensure that there is ample room to handle the transferred product. Crude oil is a mixture of all sorts of hydrocarbons. Among them can be benzene, hydrogen sulfide, and other chemicals. There will be a properly calibrated and bump tested 4-gas meter with PID on site during transfer to ensure vapors aren't present. If vapors become an issue, all work will stop and PPE will be upgraded according to the chart found on page 5 of this document. 			
Incident Reporting	First Aid OSHA Recordable Medical Only Near Miss	 Employees immediately report all incidents to their immediate supervisor. The immediate supervisor will immediately report the incident to the site safety professional, HSEQ Manager, and Project Manager. As soon as possible the affected employee will complete the required form, if an injury then the first report of injury; if near miss, then a near miss / safety suggestion form will be completed. The supervisor will complete a root cause analysis of all reported incidents and submit to the HSEQ manager within 8 hours of an incident. Determination will be made regarding need for post-incident drug and alcohol testing based on NRC policy. Contact HSEQ Manager for proper USCG reports, if needed and what report is needed. 			
Prolonged exposure to elements	Dehydration Hypothermia Hyperthermia	 If Tyvek is not required, long sleeve shirts should be worn to cover skin. Rain suits should be worn in lieu of chemical protective coveralls during inclement weather Drink plenty of fluids. Appropriate clothing should be worn based on weather conditions. 			
Break time	Ingestion Fire	 Thoroughly wash hands before eating, drinking, smoking, or applying sun screen Do not smoke near petroleum products (ONLY IN DESIGNATED AREA) 			
Decontaminate Personnel	Absorption Contamination	Follow decontamination plan for clothing removal / disposal. Do not use knives to cut PPE / use safety scissors Wash hands and face thoroughly.			
COVID 19 Protocol	Personnel infected with COVID-19 could spread it to others in the work area.	 Employees will follow all CDC, Local, State, and Federal guidance regarding Social Distancing. All personnel must remain at least 6' from one another on the worksite at all times. Only personnel essential to the operation will be allowed in the work area. If any employee is displaying symptoms related to COVID19 			





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ITEM	HAZARD	PREVENTION			
		 they will be removed from work and follow the US Ecology / NRC return to work guidance issued by corporate. The Symptoms in question are Fever (Above 100.4F, Dry Cough, and Shortness of breath) Dockside personnel will not interact with personnel aboard the M/V during transfer operations. If an emergency were to arise where dockside personnel need to board the M/V they will be wearing proper PPE and will decontaminate anything touched while on board the vessel. All trucks, handles, switches, controls, doors, etc. (frequently touched items) will be decontaminated frequently, at minimum prior to use and once the work task is complete. All personnel on site will have adequate supplies to decontaminate frequently touched surfaces such as disinfectant wipes, hand sanitizer, and a cleaner approved for use as a virucide. All breaks will be taken individually, or employees will set themselves at least 6 feet away from one another to accomplish the social distancing demand due to the current pandemic. 			
NRC INCIDENT REPORTING POLICY	First Aid OSHA recordable Illness/Injury Near Miss Equipment/Vehicle Damage	 NRC employees and subcontractors are required to immediately report all incidents to their supervisor. The immediate supervisor will immediately report the incident to the site safety professional, HSEQ Manager, and Project Manager. As soon as possible the affected employee will complete the required form, if an injury then the first report of injury; if near miss, then a near miss / safety suggestion form will be completed. The supervisor will complete a root cause analysis of all reported incidents and submit to the HSEQ manager within 8 hours of an incident. Determination will be made regarding need for post-incident drug and alcohol testing based on NRC policy. Contact HSEQ Manager for proper USCG reports, if needed and what report is needed. 			
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SAFETY ITS THE YEAR TO GO!

Revision: 08/2019

Site Specific Safety Plan
Project Name: MC20 Recovered Crude Oil Transfer

MINIMUM SAFETY EQUIPMENT REQUIRED

1	Eyewash	1	Decon Pool / Supplies See itemization list under Decon		Tinted faceshield, leathers, gauntlets, hot-work cutting gear
1	First Aid Kit	1	Fire Extinguisher, Dry Chemical		Barricades / Traffic Cones / Delineators / Banner Tape
			Fire Extinguisher, Water	1	Ladders
	Harnesses	Ħ	Lanyards / rope		Confined space entry equipment
1	PPE (Task specific)				

TRAINING / DOCUMENTATION REQUIREMENTS

1	HAZWOPER 40	1	Hazwoper Supervisor	1	Current 8 Hour Refresher	
1	First Aid /CPR		Confined Space Supervisor	1	Current Medical Fitness For Duty	
	NRC Confined Spac	e Entran	t.		NRC Confined Space Rescue	
1	✓ API Safe Rigging Practices		1	Documentation of compliance with Drug Free Work Place		
	Competent Fire Wa	tch Desig	gnated Personnel		Qualified Pressure Washer Operator	



SAFETY ITS THE WAY TO GO

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DECONTAMINATION AND DISPOSAL

	DECONTAMINAT	TON EQUIPMENT
	Visqueen on Ground Carpet on Ground Vooden Pallets Decon Pool / wash boots Boot brushes Decon Pool Rinse Boots Respirator wash bucket Respirator rinse bucket Drying stands or platforms for respirators after washing Wipe rags to clean respirators	Rags for cleaning - wiping Labeled Drums for disposal items Chairs to sit on for PPE removal Plastic zip-lock bags for personal sample pumps Water to wash face / hands Decontamination Assistant Barrier stands Caution tape to designate decon area Shower
	PERSONNEL DECOM	TAMINATION PLAN
P P U U C S R C C C C C C C C C C C C C C C C C	Inzip suit / pull off hood coll down suit / inside out and place into labeled contain demove respirator Use wipes to clean store respirators in plastic bags after drying demove inner gloves PE and debris will be bagged, accounted for, and bulker distore respirators in individual plastic bags with employee	terior of PPE prior to dry decon (stage 1 decon) is removed to waste bin at end of each shift d leather outer gloves may be reuse if still in good condition) er d into the applicable waste bin or container e names
	the second of th	GEMENT PLAN
	Contaminated disposable PPE & debris from operation sh	nall be placed in an approved container





Site Specific Safety Plan

Project Name: MC20 Recovered Crude Oil Transfer

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SITE LAYOUT

Sketch the work area or attach a schematic drawing. Please include the following:

Evacuation Route	Control Entry Point	Exclusion Zone (red security tape)
Decontamination Point (red tape)	Support Zone (yellow caution tape)	Fire Extinguishers
Eyewash / Showers		

See Facility Map



SAFETY FINE 10 000

Site Specific Safety Plan
Project Name: MC20 Recovered Crude Oil Transfer

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EMERGENCY MEDICAL TREATMENT AND FIRST AID

TYPE CONTACT	FIRST AID
TYPE CONTACT	Flush each eye continuously for 15 minutes
Eyes	Tilt head to side to ensure liquid runs onto floor not other eye Refer to EMT for evaluation
	Remove contaminated clothing immediately
Skin	 Wash skin continuously for 15 minutes Refer to physician if redness, swelling, or pain persists after washing
Not Breathing	 Call 911 Remove to fresh air immediately if respiratory distress develops Begin CPR until EMT arrives
Ingestion	 Aspiration hazard Do not induce vomiting Do not give anything by mouth

ACCIDENT REPORTING

FIRST AID INJURIES REQUIRING MEDICAL TREATMENT VEHICLE ACCIDENT NEAR MISS	Employees immediately report all accidents or incidents to the Site Project Manager / Safety Officer Site Project Supervisor will immediately notify the NRC Project Manager via cell phone. If unable to reach the Project Manager, call the NRC Safety Manager. If you get a voice mail; call their cell phones NRC Safety Manager will provide employee disposition guidelines and coordinate an accident investigation either by himself or Project Supervisor NRC Project Manager will relay information to Project Site Superintendent Accident reporting forms are included in Attachment Determination will be made regarding need for post accident drug testing
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EMERGENCY RESPONSE PLAN

	EMERGENCY RESPONSE FLAN
ELEMENT	LOCATION, SPECIFICATION OR REASON FOR USE
NEAREST HOSPITAL	Our Lady of the Sea General Hospital, (985) 632-6401 200 W 134th Pl, Cut Off, LA 70345
NEAREST PHONE	Port Fourchon Facility Phone
FIRST AID KIT	Deck of M/V Brandon Bordelon and the M/V Connor Bordelon/ Fourchon Dock side as well
FIRE EXTINGUISHER	Deck of the vessel discharging product Port Fourchon Facility Dock
EYEWASH STATION	Stage Portable Eyewash Station in Support Zone
EVACUATION ROUTE / MEETING POINT	See site map and follow established emergency procedure





Site Specific Safety Plan
Project Name: MC20 Recovered Crude Oil Transfer

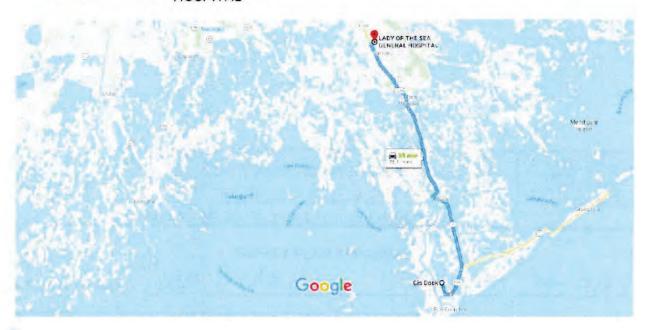
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Hospital Route

Google Maps

Gis Dock to LADY OF THE SEA GENERAL HOSPITAL

Drive 28.1 miles, 35 min





via LA-1 and LA-3235

35 min

Fastest route, the usual traffic

28.1 miles

▲This route has restricted usage or private roads.



SAFETY

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Site Specific Safety Plan
Project Name: MC20 Recovered Crude Oil Transfer

SAFETY PLAN APPROVAL

ACKNOWLEDGMENTS (signed by all NRC site personnel)

I have read and understand the topics outlined on all pages of this HASP and will follow all the required safety rules.

	I must notify the on site supervisor of any injury /accident/ near miss that I had or observed during my shift** I understand that I have the right to stand down for Safety and report any potential hazards to the NRC Site Supervisor. After an injury/accident/near miss is reported, the Site Supervisor must call the H & S Manager at			
Date	Print Name	Signature		

PU # 65



SAFETY MANAGEMENT SYSTEM

Revision: 08/2015

Job Hazard Analysis

			SUMMARY OF POTENTIAL HAZA	RDS (Chec	k applicable)	
Heavy or a	wkward lifting /		Pinch Points or caught between		Working and walking surfaces; slip, trip, fall	
☐ New / Inex	perienced employe	es	Spill / containment		Heat stress envir	ronment
	or crush hazard		Noise levels (>85 dBA)			
	liquids, vapors, wa	ste	☐ Elevated surfaces / Fall / Ladd	orc	16	
Z mazardous	nquius, vapors, wa		APPLICABLE REGULATION	122	1 EDTS	
□ SMS 10.21	/acuum Trucks		AI FEICHDEE NEGOEMION	7 301 3 7 1		
31VI3 13.2 V	racualii Trucks			NURBARNIT	(charles and sales	
☐ Level A	M Hard Hat	IV	INIMUM PERSONAL PROTECTIVE EC			Mara (W.)
		200	High Visibility Vest		er Steel Toe Boots	PFD / Work vest
Level B	Safety Glasse	es.	Long Sleeves / Coveralls		sable boot covers	4
Level C	Face Shield		Chemical protective clothing		rene Steel Toe Boots	Ц
∑ Level D	Hearing Prot	ection	Respirator: JOB HAZARD AI	Glove	Si	
0 10	ob Steps		Potential Hazards	VALTOIS	Preventive Mea	sures / Special PPE
	ob Meetings	• P	ersonnel do not understand the			ards and controls will be explained
		Pri h Pri Pri Pri Pri Pri Pri Pri	r their roles/responsibilities ersonnel do not stop work when ezards are identified ersonnel do not report injuries, nesses, near misses or incidents		any project details immediate supervisor wil Authority and Responsib supervisor if they discov	ed to report any injuries, illnesses,
	Survey and oment Set-up	Eco or In	hazards. correct unsafe conditions. Posit Equipment not certified, not tested away from travel paths. Identify or damaged • All equipment will be inspected for		pected for current certifications, working condition prior to work	
3. Vehic	cle movements	st ve • Ve m • U	ersonnel, equipment or hoses ruck or crushed by moving chicles or equipment chicles not inspected prior to ovements. Unsafe for travel, insecured items create dropped bject or road hazards.	• \	Fround guides will be us Non-essential personne path will be confirmed /ehicles will be inspecte after travel for potentia /ehicles will be inspecte	red for equipment movements. I will clear the travel path. Travel as clear prior to movements. I by drivers prior to travel and al damage. I to ensure that there are no adds are secured properly.
Mooring Vessel and working near water		Pe ca Pe di Pe	ersonnel struck by thrown lines or lught in "line of fire". ersonnel pinched or crushed uring vessel movements. ersonnel fall into the water. Man verboard.	 When tossing the mooring lines to the shore allow the lir to fall on the ground and pick them up. Do not attemp catch mooring lines from the M/V. When mooring the vessel, keep hands, fingers, arms, an other body parts from between the mooring line and the bits on the dock Never work alone. All personnel within 5' of the docks enare required to wear a USCG approved PFD. Always dis "man overboard" procedures prior to work. Have life ring. 		g lines to the shore allow the lines of pick them up. Do not attempt to not the M/V, where the models, fingers, arms, and all etween the mooring line and the sonnel within 5' of the docks edge JSCG approved PFD. Always discuss fures prior to work. Have life ring
5. Conn	ecting hoses	Per ot do ho	ersonnel crushed or pinched hile connecting transfer hoses. ersonnel suffer back strain or ther ergonomic related injuries uring connections or moving oses ip/trip/fall hazards while working	• 1	including cam-lock conne parts or equipment Transfer hoses can be he hoses employees shall u including keeping your b as lifting with your knees	d avoid all crush/pinch points: ections, vehicles and other moving eavy and when handling these se proper ergonomic practices back as straight as possible as well

Observe good housekeeping and maintain situational





Job Steps	Potential Hazards	Preventive Measures / Special PPE
		awareness when walking in the dock area. Try to run hoses in an area that is out of the normal walking path and go around if possible
6. Working in potentially hazardous atmospheres	 Personnel exposed to hazards related to hazardous atmospheres. Ignition sources create potential for explosive conditions Personnel not equipped to suppress incipient fire 	 Calibrated multi-gas meters/detectors will be used to confirm that LEL's, CO and other gases are within safe range for pumping and transfer operations. Operations will transfer operations will stop immediately if LEL's or Carbon Monoxide levels become elevated A protective distance of 100' outside shoreside transfer will be identified, and marked with caution tape and warning signs, to prohibit smoking, sparks and any potential source of ignition within the transfer area perimeter. The M/V will suspend all similar activities for the duration of transfer operations. Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.
7. Energizing pneumatic equipment	Personnel injured when struck by hoses or pressure during hose connection or fitting failure. Air leaks or blowout causing pressure related injuries. Hearing loss/injury due to noise levels above 85 decibels	 All pressurized hoses will have whip checks and safety clips installed prior to energizing. All pneumatic hoses will be inspected prior to use. Pumping operations will be stopped immediately if leaks are detected during operations. Defective hoses will be replaced with new hoses/whips. Hearing protection will be worn in all areas where highnoise machinery and equipment is being operated.
8. Transfer of recovered crude oil	Personnel contacted by crude oil spray or environmental release. Overfilling tank resulting in spills Personnel overcome by potentially hazardous vapors	 All transfer hoses used will be inspected, certified and tested prior to use. They will be secured with safety clips and wrapped with absorbent pads and duct tape. Polypropylene line will be used as an added retention measure. Personnel will wear Level D PPE and increase protection as appropriate. Spill control kits/supplies will be available on site. The DOI Declaration of Inspection will be completed prior to operations. Prior to transfer the amount of product that can be accepted will be calculated and the PIC will ensure that there is ample room to handle the transferred product. Crude oil is a mixture of various hydrocarbons. Among them can be benzene, hydrogen sulfide, and other chemicals. There will be a properly calibrated and bump tested 4-gas meter on site during transfer to ensure vapors aren't present. All work will stop if hazardous gasses are detected. PPE will be upgraded according to the concentration of hazards detected. If personnel will work at heights above 6': fall protection will be worn and a rescue plan will be in place. Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.
Transfer of oil into transporter	Personnel contacted by crude oil spray or environmental release Overfilling transportation vessel resulting in spills Personnel overcome by potentially hazardous vapors Fall hazards present if personnel are working above 6 feet	 All transfer hoses used will be inspected, certified and tested prior to use. They will be secured with safety clips and wrapped with absorbent pads and duct tape. Polypropylene line will be used as an added retention measure. Personnel will wear Level D PPE and increase protection as appropriate. Spill control kits/supplies will be available on site. Prior to transfer the amount of product that can be accepted will be calculated and the PIC will ensure that there is ample room to handle the transferred product. Crude oil is a mixture of various hydrocarbons. Among them can be benzene, hydrogen sulfide, and other chemicals. There will be a properly calibrated and bump tested 4-gas meter on site during transfer to ensure vapors aren't present. All work will stop if hazardous gasses are





Job Hazard Analysis

Revision:	08/2015
/ Special PP	

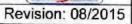
Job Steps	Potential Hazards	Preventive Measures / Special PPE
		 detected. PPE will be upgraded according to the concentration of hazards detected. If personnel will work at heights above 6': fall protection will be worn and a rescue plan will be in place. Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.
1 11 10 1	 Inadequate hydration Extended work periods without rest resulting in heat stress 	 Personnel will be encouraged to hydrate frequently. Water to sports drink ratio will be 3:1 (1 sports drink to 3 waters consumed). Work to rest schedules will be determined based on the ambient temperature, acclimatization of personnel and work being performed. Heat stress potential and signs/symptoms will be discussed at all safety meetings, tailgate meetings and during breaks. Personnel will be encouraged to self-report any early symptoms of heat stress. All personnel will be advised that stop work authority applies to potential heat stress symptoms they may be experiencing, (or that they suspect with coworkers).
	Potential for ingestion of petroleum product or other contaminants. Fire hazards from unrestricted smoking Direct sun reduces recovery time for workers during breaks Inadequate water	 Personnel will wash hands before smoking, eating, drinking or any other activity where contaminants might be ingested. This hazard will be stressed in break areas. Only smoke in designated areas. Ensure that break areas have adequate shade and cooling potential for personnel Personnel are more likely to hydrate when cool water is available. Ensure an adequate supply and include sports drinks with electrolytes to be consumed sparingly.
12. Decontaminate Personnel	 Potential for secondary contamination by absorption, injection, or ingestion 	 Follow decontamination plan for clothing removal and disposal when protective outerwear is required and becomes contaminated. Only use safety scissors (never knives) to cut Tyvek from personnel. Ensure that workers wash hands and face thoroughly.
POLICY	 First Aid OSHA recordable Illness/Injury Near Miss Equipment/Vehicle Damage 	 NRC employees and subcontractors are required to immediately report all incidents to their supervisor. The immediate supervisor will immediately report the incident to the site safety professional, HSEQ Manager, and Project Manager. As soon as possible the affected employee will complete the required form, if an injury then the first report of injury; if near miss, then a near miss / safety suggestion form will be completed. The supervisor will complete a root cause analysis of all reported incidents and submit to the HSEQ manager within 8 hours of an incident. Determination will be made regarding need for post-incident drug and alcohol testing based on NRC policy. Contact HSEQ Manager for proper USCG reports, if needed and what report is needed.

REVIEW

	20 70 70 70 70 70	REVIEW		_
Development Team	Position/Title	Reviewed By	Position/Title	Date
	A	CKNOWLEDGEMENT /		
Employee Na	ame	Signature		Date



SAFETY





PO#69



SAFETY MANAGEMENT SYSTEM

SAFETY

Revision: 08/2015

TASK DESC	CRIPTION: MC	20 Rec	overed Crude Oil / Vessel t	o Shore	Transfer	01-07-25
			SUMMARY OF POTENTIAL HAZA	RDS (Check	applicable)	
Heavy or a movement	wkward lifting /		Pinch Points or caught betwee	n	Working and walking surfaces; slip, trip, fall	
☐ New / Inex	perienced employe	es	Spill / containment			
Struck by or crush hazard		☑ Noise levels (>85 dBA)				
	liquids, vapors, wa	ste	☑ Elevated surfaces / Fall / Ladd	ers		
			APPLICABLE REGULATION	/SOPS/A	LERTS	
SMS 19.2 V	Vacuum Trucks					
		M	INIMUM PERSONAL PROTECTIVE EC	UIPMENT	(Check applicable)	
Level A Level B Level C Level D	□ Hard Hat □ Safety Glasse □ Face Shield □ Hearing Prot		☐ High Visibility Vest ☐ Long Sleeves / Coveralls ☐ Chemical protective clothing ☐ Respirator:	Dispo	er Steel Toe Boots sable boot covers rene Steel Toe Boots s:	PFD / Work vest
			JOB HAZARD AI	NALYSIS		
	ob Steps ob Meetings	• p.	Potential Hazards ersonnel do not understand the	. 1	Preventive Mea The operational plan, haz	sures / Special PPE ards and controls will be explained
	ou Meetings ivior Based Safety	• P	perational plan, relevant hazards r their roles/responsibilities ersonnel do not stop work when azards are identified ersonnel do not report injuries, nesses, near misses or incidents	• 1	to all involved personnel will be encouraged to as any project details mmediate supervisor will Authority and Responsib supervisor if they discov	in Safety/Ops meeting. Personnel is questions if they are unsure of remind their crews of their ility to Stop work and contact their er a hazard ed to report any injuries, illnesses,
Equipment Set-up h Equipment Set-up h		neven working surfaces and trip azards. quipment not certified, not tested r damaged nproper set-up due to untrained r unqualified personnel	• /	correct unsafe condition away from travel paths. All equipment will be ins testing and serviceable	ole walking surface hazards. Flag or ns. Position equipment and hoses Identify "no-go" areas. pected for current certifications, working condition prior to work ected to perform tasks based on	
3. Vehio	cle movements	• V • V • U	ersonnel, equipment or hoses cruck or crushed by moving chicles or equipment chicles not inspected prior to covements. Unsafe for travel. nsecured items create dropped bject or road hazards.	• \	Non-essential personne path will be confirmed a /ehicles will be inspecter after travel for potentia /ehicles will be inspecter	ed for equipment movements. If will clear the travel path. Travel as clear prior to movements. If by drivers prior to travel and If damage. If to ensure that there are no If the control of the con
4. Mooring Vessel and working near water F C C		• Pe	ersonnel struck by thrown lines or bught in "line of fire". ersonnel pinched or crushed uring vessel movements. ersonnel fall into the water. Man verboard.	 When tossing the mooring lines to the shore allow to fall on the ground and pick them up. Do not att catch mooring lines from the M/V. When mooring the vessel, keep hands, fingers, arms other body parts from between the mooring line ar bits on the dock Never work alone. All personnel within 5' of the docl are required to wear a USCG approved PFD. Alway "man overboard" procedures prior to work. Have line and recovery plan in place. 		g lines to the shore allow the lines of pick them up. Do not attempt to the M/V. If keep hands, fingers, arms, and all etween the mooring line and the sonnel within 5' of the docks edge ISCG approved PFD. Always discuss lures prior to work. Have life ring the sonnel within 5'.
5. Conn	ecting hoses	• P o d h	ersonnel crushed or pinched while connecting transfer hoses. ersonnel suffer back strain or ther ergonomic related injuries uring connections or moving oses	•	including cam-lock conni- parts or equipment Transfer hoses can be he hoses employees shall u including keeping your b as lifting with your knees	d avoid all crush/pinch points: ections, vehicles and other moving eavy and when handling these se proper ergonomic practices eack as straight as possible as well and not your back ing and maintain situational





Job Hazard Analysis

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O Job Steps	Potential Hazards	Preventive Measures / Special PPE
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Prolonged exposure to elements (Heat Stress)	Inadequate hydration Extended work periods without rest resulting in heat stress	 Personnel will be encouraged to hydrate frequently. Water to sports drink ratio will be 3:1 (1 sports drink to 3 waters consumed). Work to rest schedules will be determined based on the ambient temperature, acdimatization of personnel and work being performed. Heat stress potential and signs/symptoms will be discussed at all safety meetings, tailgate meetings and during breaks. Personnel will be encouraged to self-report any early symptoms of heat stress. All personnel will be advised that stop work authority applies to potential heat stress symptoms they may be experiencing, (or that they suspect with coworkers).
11. Break time	Potential for ingestion of petroleum product or other contaminants. Fire hazards from unrestricted smoking Direct sun reduces recovery time for workers during breaks Inadequate water	 Personnel will wash hands before smoking, eating, drinking or any other activity where contaminants might be ingested. This hazard will be stressed in break areas. Only smoke in designated areas. Ensure that break areas have adequate shade and cooling potential for personnel Personnel are more likely to hydrate when cool water is available. Ensure an adequate supply and include sports drinks with electrolytes to be consumed sparingly.
12. Decontaminate Personnel	 Potential for secondary contamination by absorption, injection, or ingestion 	 Follow decontamination plan for clothing removal and disposal when protective outerwear is required and becomes contaminated. Only use safety scissors (never knives) to cut Tyvek from personnel. Ensure that workers wash hands and face thoroughly.
NRC INCIDENT REPORTING POLICY	 First Aid OSHA recordable Illness/Injury Near Miss Equipment/Vehicle Damage 	 NRC employees and subcontractors are required to immediately report all incidents to their supervisor. The immediate supervisor will immediately report the incident to the site safety professional, HSEQ Manager, and Project Manager. As soon as possible the affected employee will complete the required form, if an injury then the first report of injury; if near miss, then a near miss / safety suggestion form will be completed. The supervisor will complete a root cause analysis of all reported incidents and submit to the HSEQ manager within thours of an incident. Determination will be made regarding need for post-incident drug and alcohol testing based on NRC policy. Contact HSEQ Manager for proper USCG reports, if needed and what report is needed.

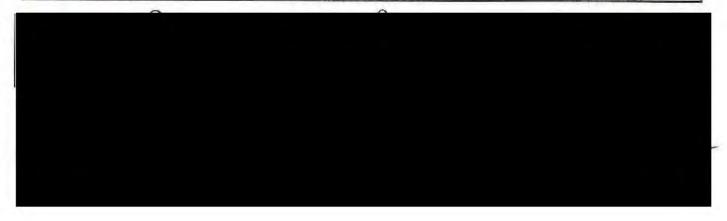
REVIEW

Development Team	Position/Title	Reviewed By	Position/Title	Date

Employee Name	Signature	Data
LINDIOVEE IVAILLE	Signature	Date



Revision: 08/2015



PO#68

DOC 2 Tends



SAFETY MANAGEMENT SYSTEM

SAFETY

Revision: 08/2015

		SUMMARY OF POTENTIA	L HAZARDS (Chec	k applicable)	
Heavy or a	wkward lifting /	Pinch Points or caught	between	Working and walking surfaces; slip, trip, fall	
☐ New / Inex	perienced employe	es Spill / containment		Heat stress environment	
Struck by	or crush hazard	Noise levels (>85 dBA)	Noise levels (>85 dBA)		
Hazardous	liquids, vapors, wa	ste Elevated surfaces / Fal	/ Ladders		
		APPLICABLE REGU	With the latest the la	LERTS	
☐ SMS 19.2 \	Vacuum Trucks				
		MINIMUM PERSONAL PROTEC	TIVE EQUIPMENT	(Check applicable)	
Level A	☐ Hard Hat	☐ High Visibility Vest		ner Steel Toe Boots	☑ PFD / Work vest
Level B	Safety Glasse			sable boot covers	
Level C	Face Shield	☐ Chemical protective clo		rene Steel Toe Boots	
☐ Level D	Hearing Prot		Glove	A 2010 A 18 B . A 2 C . A 2 C . A 3	
<u> </u>	🗅		ARD ANALYSIS		
O Jo	ob Steps	Potential Hazards		Preventive Mea	asures / Special PPE
Pre-job Meetings Behavior Based Safety		operational plan, relevant haz or their roles/responsibilities	hen •	to all involved personne will be encouraged to a any project details Immediate supervisor wil Authority and Responsit supervisor if they discov	ed to report any injuries, illnesses,
	Survey and pment Set-up	Uneven working surfaces and hazards. Equipment not certified, not to or damaged Improper set-up due to untrai or unqualified personnel	ested • ,	correct unsafe conditio away from travel paths All equipment will be ins testing and serviceable	ble walking surface hazards. Flag or ons. Position equipment and hoses is Identify "no-go" areas, spected for current certifications, working condition prior to work lected to perform tasks based on
3. Vehicle movements		struck or crushed by moving vehicles or equipment		 Ground guides will be used for equipment movem Non-essential personnel will clear the travel path path will be confirmed as clear prior to movemer Vehicles will be inspected by drivers prior to travel after travel for potential damage. Vehicles will be inspected to ensure that there are loose items and that loads are secured properly. 	
4. Mooring Vessel and working near water •			• :	When tossing the moorin to fall on the ground an catch mooring lines fror When mooring the vesse other body parts from b bits on the dock Never work alone. All per are required to wear a l	g lines to the shore allow the lines d pick them up. Do not attempt to the M/V. I, keep hands, fingers, arms, and all netween the mooring line and the resonnel within 5' of the docks edge USCG approved PFD. Always discuss dures prior to work. Have life ring
5. Conn	necting hoses	Personnel crushed or pinched while connecting transfer hose Personnel suffer back strain or other ergonomic related injuring during connections or moving hoses Slip/trip/fall hazards while wo	es. r es	Identify, communicate ar including cam-lock conn parts or equipment Transfer hoses can be ho hoses employees shall u including keeping your by as lifting with your knee	nd avoid all crush/pinch points: nections, vehicles and other moving eavy and when handling these use proper ergonomic practices back as straight as possible as well





O Job Steps	Potential Hazards	Preventive Measures / Special PPE
		awareness when walking in the dock area. Try to run hoses in an area that is out of the normal walking path and go around if possible
6. Working in potentially hazardous atmospheres	Personnel exposed to hazards related to hazardous atmospheres. Ignition sources create potential for explosive conditions Personnel not equipped to suppress incipient fire	 Calibrated multi-gas meters/detectors will be used to confine that LEL's, CO and other gases are within safe range for pumping and transfer operations. Operations will transfer operations will stop immediately if LEL's or Carbon Monoxide levels become elevated A protective distance of 100' outside shoreside transfer will be identified, and marked with caution tape and warning signs to prohibit smoking, sparks and any potential source of ignition within the transfer area perimeter. The M/V will suspend all similar activities for the duration of transfer operations. Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.
7. Energizing pneumatic equipment	Personnel injured when struck by hoses or pressure during hose connection or fitting failure. Air leaks or blowout causing pressure related injuries. Hearing loss/injury due to noise levels above 85 decibels	 All pressurized hoses will have whip checks and safety clips installed prior to energizing. All pneumatic hoses will be inspected prior to use. Pumping operations will be stopped immediately if leaks are detected during operations, Defective hoses will be replaced with new hoses/whips. Hearing protection will be worn in all areas where highnoise machinery and equipment is being operated.
8. Transfer of recovered crude oil	Personnel contacted by crude oil spray or environmental release. Overfilling tank resulting in spills Personnel overcome by potentially hazardous vapors	 All transfer hoses used will be inspected, certified and tester prior to use. They will be secured with safety clips and wrapped with absorbent pads and duct tape. Polypropyler line will be used as an added retention measure. Personne will wear Level D PPE and increase protection as appropriate. Spill control kits/supplies will be available on site. The DOI Declaration of Inspection will be completed prior to operations. Prior to transfer the amount of product that can be accepted will be calculated and the PIC will ensure that there is ample room to handle the transferred product. Crude oil is a mixture of various hydrocarbons. Among the can be benzene, hydrogen sulfide, and other chemicals. There will be a properly calibrated and bump tested 4-gas meter on site during transfer to ensure vapors aren't present. All work will stop if hazardous gasses are detected. PPE will be upgraded according to the concentration of hazards detected. If personnel will work at heights above 6': fall protection will be worn and a rescue plan will be in place. Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.
9. Transfer of oil into transporter	Personnel contacted by crude oil spray or environmental release Overfilling transportation vessel resulting in spills Personnel overcome by potentially hazardous vapors Fall hazards present if personnel are working above 6 feet	 All transfer hoses used will be inspected, certified and tested prior to use. They will be secured with safety clips and wrapped with absorbent pads and duct tape. Polypropyler line will be used as an added retention measure, Personne will wear Level D PPE and increase protection as appropriate. Spill control kits/supplies will be available on site. Prior to transfer the amount of product that can be accepted will be calculated and the PIC will ensure that there is ample room to handle the transferred product. Crude oil is a mixture of various hydrocarbons. Among the can be benzene, hydrogen sulfide, and other chemicals. There will be a properly calibrated and bump tested 4-gas meter on site during transfer to ensure vapors aren't present. All work will stop if hazardous gasses are





Job Hazard Analysis

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Prolonged exposure to elements (Heat Stress)	 Inadequate hydration Extended work periods without rest resulting in heat stress 	 Personnel will be encouraged to hydrate frequently. Water to sports drink ratio will be 3:1 (1 sports drink to 3 waters consumed). Work to rest schedules will be determined based on the ambient temperature, acclimatization of personnel and work being performed. Heat stress potential and signs/symptoms will be discussed at all safety meetings, tailgate meetings and during breaks. Personnel will be encouraged to self-report any early symptoms of heat stress. All personnel will be advised that stop work authority applies to potential heat stress symptoms they may be experiencing, (or that they suspect with coworkers).
11. Break time	Potential for ingestion of petroleum product or other contaminants. Fire hazards from unrestricted smoking Direct sun reduces recovery time for workers during breaks Inadequate water	 Personnel will wash hands before smoking, eating, drinking or any other activity where contaminants might be ingested. This hazard will be stressed in break areas. Only smoke in designated areas. Ensure that break areas have adequate shade and cooling potential for personnel Personnel are more likely to hydrate when cool water is available. Ensure an adequate supply and include sports drinks with electrolytes to be consumed sparingly.
12. Decontaminate Personnel	 Potential for secondary contamination by absorption, injection, or ingestion 	 Follow decontamination plan for clothing removal and disposal when protective outerwear is required and becomes contaminated. Only use safety scissors (never knives) to cut Tyvek from personnel. Ensure that workers wash hands and face thoroughly.
NRC INCIDENT REPORTING POLICY	 First Aid OSHA recordable Illness/Injury Near Miss Equipment/Vehicle Damage 	 NRC employees and subcontractors are required to immediately report all incidents to their supervisor. The immediate supervisor will immediately report the incident to the site safety professional, HSEQ Manager, and Project Manager. As soon as possible the affected employee will complete the required form, if an injury then the first report of injury; if near miss, then a near miss / safety suggestion form will be completed. The supervisor will complete a root cause analysis of all reported incidents and submit to the HSEQ manager within 8 hours of an incident. Determination will be made regarding need for post-incident drug and alcohol testing based on NRC policy. Contact HSEQ Manager for proper USCG reports, if needed and what report is needed.

REVIEW

Development Team	Position/Title	Reviewed By	Position/Title	Date
	AC	KNOWLEDGEMENT		

Employee Name	Signature	Date
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SAFETY IT'S THAT WAY TO GO

Job Hazard Analysis

Revision: 08/2015



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SAFETY MANAGEMENT SYSTEM

SAFETY

Revision: 08/2015

TASK DESC	RIPTION: MC 2	0 Rec	overed Crude Oil / Vessel t	o Snore	Transfer	1- 9-25
			SUMMARY OF POTENTIAL HAZA	RDS (Check	applicable)	
Heavy or av	wkward lifting /		Pinch Points or caught between	n	Working and walking surfaces; slip, trip, fall	
☐ New / Inex	perienced employe	es	Spill / containment		Heat stress environment	
Struck by or crush hazard			☐ Noise levels (>85 dBA)			
	liquids, vapors, was	te	Elevated surfaces / Fall / Ladd	ers		
	in the second se		APPLICABLE REGULATION	/SOPS/A	LERTS	
☐ SMS 19.2 V	/acuum Trucks					
		M	INIMUM PERSONAL PROTECTIVE EC	QUIPMENT	(Check applicable)	
Level A	☐ Hard Hat		High Visibility Vest		er Steel Toe Boots	PFD / Work vest
Level B	Safety Glasse	S	☑ Long Sleeves / Coveralls	Dispo	sable boot covers	
Level C	☐ Face Shield		☐ Chemical protective clothing	g Neoprene Steel Toe Boots		
∠ Level D	☐ Hearing Prote	ection	Respirator:	⊠ Glove	s:	
			JOB HAZARD A	NALYSIS		/s
	ob Steps		Potential Hazards			asures / Special PPE ards and controls will be explained
	ob Meetings vior Based Safety	0 0 • P h	ersonnel do not understand the perational plan, relevant hazards r their roles/responsibilities ersonnel do not stop work when azards are identified ersonnel do not report injuries, lnesses, near misses or incidents	9.4	to all involved personnel will be encouraged to as any project details Immediate supervisor will Authority and Responsib supervisor if they discov	I in Safety/Ops meeting. Personnel sk questions if they are unsure of I remind their crews of their billity to Stop work and contact their rer a hazard ed to report any injuries, illnesses,
	Survey and oment Set-up	• E o • Ir	neven working surfaces and trip azards. quipment not certified, not tested r damaged nproper set-up due to untrained r unqualified personnel	•	correct unsafe conditio away from travel paths All equipment will be ins testing and serviceable	ble walking surface hazards. Flag or ons. Position equipment and hoses i. Identify "no-go" areas. spected for current certifications, working condition prior to work lected to perform tasks based on
3. Vehicle movements		• V • U	ersonnel, equipment or hoses truck or crushed by moving ehicles or equipment 'ehicles not inspected prior to novements. Unsafe for travel. Insecured items create dropped bject or road hazards.	* *	Ground guides will be us Non-essential personne path will be confirmed Vehicles will be inspecte after travel for potentia Vehicles will be inspecte loose items and that lo	ed to ensure that there are no ads are secured properly.
	ring Vessel and king near water	• P	ersonnel struck by thrown lines or aught in "line of fire". Personnel pinched or crushed Juring vessel movements. Personnel fall into the water. Man Everboard.		to fall on the ground an catch mooring lines fror When mooring the vesse other body parts from b bits on the dock Never work alone. All per are required to wear a la "man overboard" proce- and recovery plan in pla	d, keep hands, fingers, arms, and all between the mooring line and the rsonnel within 5' of the docks edge USCG approved PFD. Always discuss dures prior to work. Have life ring ace.
5. Conr	necting hoses	• F	Personnel crushed or pinched while connecting transfer hoses. Personnel suffer back strain or other ergonomic related injuries during connections or moving noses		Identify, communicate ar including cam-lock conr parts or equipment Transfer hoses can be h hoses employees shall u including keeping your as lifting with your knee	nd avoid all crush/pinch points: nections, vehicles and other moving leavy and when handling these use proper ergonomic practices back as straight as possible as well





Job Steps	Potential Hazards	Preventive Measures / Special PPE
		awareness when walking in the dock area. Try to run hoses in an area that is out of the normal walking path and go around if possible
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Job Hazard Analysis

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REVIEW

Development Team	Position/Title	Reviewed By	Position/Title	Date

ACKNOWLEDGEMENT

. Employee Name	Signature	Date



SAFETY THE WAY TO GO

Job Hazard Analysis

Revision: 08/2015