

Couvillion Group, LLC MC 20 Hydrocarbon Pump-Off #38 Results Report

Document #: Couv-MC20-O&M-RPT-DOC-00062 6/6/2022

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0					Initial
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Summary:

Couvillion Group's Rapid Response Collection System initiated it's thirty eighth collection cycle on 4/4/2022 and completed the cycle on 5/11/2022 resulting in a collection duration of 36.9 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 5/15/2022, with 674.0 bbl of hydrocarbon fluids transferred to onshore frac tanks 1-3 according to NRC frac tank strapping.

On 5/31/2022, Couvillion Group confirmed the initial measurement of 674.0 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 69.2 bbl of water was decanted. This 69.2 bbl of water was sent to E.R.R. Evergreen LLC in Belle Chasse for disposal.

On the morning of 6/1/2022, Couvillion Group measured 604.8 bbl of hydrocarbons in tanks 1-3 via strap measurements. After a confirmation measurement was recorded, the second decant process began. From frac tanks 1-3, a total of 3.9 bbl of water was decanted. This 3.9 bbl of water was then pumped into tank 4. A gross total of 572.3 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 543.0 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 MC20 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 MC20 on 5/11/2022 at 14:55 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 5/11/2022 the ATI/BTI were closed at 16:43, marking the end of the 38th collection cycle. Pumping commenced at 17:15 hrs on 5/13/2022 and ended at 00:15 on 5/14/2022. 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 685.4 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 5/15/2022. On the morning of 5/15/2022 hoses were run from the tanks on the vessel through a diaphragm pump which was on the Couvillion dock and then run to 500 bbl frac tanks. The pump-off process was begun and continued until all MPT tanks aboard the OSV 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 674.0 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 6/1/2022 at 06:00 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 145.2 bbls and the second truck received 150.3 bbls of hydrocarbon fluids. The second day of truck transfers began on 6/2/2022 at 06:00. The first truck received 140.2 bbls and the final truck of pump off 38 received 136.6 bbls of hydrocarbon fluids. There was a total of 28.6 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 674.0 bbl of hydrocarbon fluid was transferred from the Brandon Bordelon into an onshore frac tank. Tank trucks transported a gross total of 572.3 bbl to the Acadiana Oil Company, which netted out to a total of 543.0 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 36.9-day collection cycle offshore was 14.7 bbl/day or 617.4 gal/day. Monthly pump off collection rates reflect 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 997,815.0 gallons of salvaged crude oil has been contained from the MC-20 site.

Oil Tally

					Truck 1				Truck 2				Truck 3				Truck 4					Running
Oil Tally	Date	Total Fluid	Total Fluid		Total Fluids	Total Fluid			Total Fluids	Total Fluid	1		Total Fluids	Total Fluid	1		Total Fluids	Total Fluid	1		Total	Total
Oli rally	Date	Transfer	Frac	%	to Acadiana	at	%	Net	to Acadiana	at	%	Net	to Acadiana	at	%	Net	to Acadiana	at	%	Net	Net	Net
		by	Tank Strap	70	NRC Frac	Acadiana	70	ivec	NRC Frac	Acadiana	/0	ivec	NRC Frac	Acadiana	70	ivec	NRC Frac	Acadiana	70	ivec	IVEC	l
		Siemens	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)
Pump Off #1	4/26/2019	220.0	215.7	-2.0																		
	5/6/2019				113.7	110.0	3.3	108.8	97.0	87.4	9.9	78.6									187.4	187.4
Pump Off #2	5/3/2019	246.3	223.5	-10.2																		ı
	5/8/2019				101.3	102.0	-0.7	99.7	82.8	83.8	-1.2	81.9									181.6	369.0
Pump Off #3	5/13/2019	335.0	331.2	-1.1	402.2	00.4	42.7		425.4	425.4	7.0	422.4	400.5	99.5		00.7					205.7	
Pump Off #4	5/16/2019 6/19/2019	901.7	905.5	0.4	103.2 139.4	89.1 145.8	13.7 -4.6	82.9 143.0	126.4 138.7	136.4 139.4	-7.9 -0.5	132.1 137.4	108.5	99.5	8.3	80.7					295.7	664.8
Fullip Oil #4	6/20/2019	501.7	503.3	0.4	137.7	136.2	1.1	113.0	140.7	141.4	-0.5		140.6	141.4	-0.6	134.2	144.1	141.4	1.9	138.4		ı
	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	134.2	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	131.9	146.0	142.0	2.7	81.3	138.0	142.0	-2.9	140.0		ı
	8/2/2019				99.8	112.9	-13.1	111.0	101.1	105.6	-4.5	104.2									983.7	2,498.5
Pump Off #6	8/26/2019	848.0	874.6	3.0	141.7	138.4	2.3	134.6	140.3	145.7	-3.8	140.6	141.5	145.7	-3.0	143.2						I
	8/27/2019				140.5	138.4	1.5	135.5	137.2	142.0	-3.5	139.1	61.3	65.6	-7.0	64.2						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						ı
0 ((110	9/24/2019	700.0	707.4		144.4	142.0	1.7	139.1	143.7	138.4	3.7	135.5	55.3	54.6	1.3	53.7					749.3	4,005.0
Pump off #8	10/21/2019	790.9	787.4	-0.4	143.9	121.0	0.0	120.1	454.3	151.0	4.5	140.7	144.0	126.2	- 4	124.2						ı
	10/22/2019 10/23/2019				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						ı
Residual Tank	10/23/2019	 	205.1		137.7	141.4	-2.7	135.2	130.0	123.7	3.3	123.0	125.4	125.7	-0.2	123.6	 				799.4	4.804.4
Pump off #9	11/11/2019	772.3	757.8	-1.9									123.4	123.7	-0.2	123.0					733.4	4,004.4
rump on no	11/19/2019	772.3	737.0	1.5	142.3	156.5	-10.0	153.6	143.8	131.0	8.9	128.8	145.3	142.0	2.3	139.9						ı
	11/20/2019				145.6	145.6	0.0	143.6	92.1	94.6	-2.8	93.3									659.1	5,463.5
Pump off #10	12/17/2019	940.7	942.8	0.2	142.0	138.4	2.5	136.9	71.4	69.2	3.1	68.5	146.4	145.7	0.5	144.2						
	12/18/2019				146.4	138.4	5.5	136.8	144.3	145.7	-1.0	144.4	144.0	142.0	1.4	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						ı
	1/10/2020	ļ	L		79.4	91.0	-14.6	90.0	92.6	91.1	1.6	90.0	<u> </u>		L		 		ļ			}
Residual Tank	1/8/2020				141.9	142.0	-0.1	140.0													707.2	6,989.3
Pump off #12	2/12/2020 2/13/2020	725.4	722.5	-0.4	120.8 149.5	123.8 160.2	-2.5 -7	115.8	102.1	101.9 101.92	0.2 10.8	100.4 61.1	99.0	101.9	-2.9	97.5						ı
Residual Tank	2/13/2020		 		108.2	105.6	2.4	154 101.3	114.2	101.92	10.8	61.1	 		 -		 				630.1	7,619.4
Pump off #13	3/11/2020	583.7	570.2	-2.4	108.2	105.0	2.4	101.3													030.1	7,019.4
1 dilip 011 #13	3/12/2020	303.7	370.2	-2.4	114.5	115.2	-0.6	112.7	138.3	136.2	1.5	134.3										ı
	3/13/2020				93.6	94.3	-0.7	91.9	120.0	120.4	-0.3	117.5									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						ı
	4/17/2020	L	L		144.9	146.5	-1.1	144.3	144.1	141.2	2.0	139.1	87.4	88.9	-1.7	87.3	L		<u> </u>		798.4	L
Residual Tank	4/14/2020				149.9	151.9	-1.3	132.3													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						1
- "	5/8/2020		L		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	435.4	424.0		424 -	445.0		١	400 -			l		543.5	40.00-
Dumnoff #17	5/29/2020	070.1	056.3	1.4	138.0	138.5	-0.4	134.1	135.1	134.8	0.2	131.7	115.0	116.6	-1.4	109.7					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			
	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							T				1							
	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		
	7/28/2020	L	<u> Ll</u>		66.0	66.0	0.0	62.8	<u> </u>		<u> </u>	<u> </u>	<u> </u>	L	L		<u> </u>		<u> </u>		601.5	11,663.1
Residual Tank	7/28/2020								113	113	0.0	110.7									110.7	11,773.8
Pumpoff #19	9/1/2020	901.6	886.4	-1.7	128.2	128.2	0.0	125.6	135.5	135.5	0.0	132.6										
	9/2/2020				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
	1																					1

Oil Tally Contd.

					Truck 1				Truck 2				Truck 3				Truck 4					Running
Oil Tally	Date	Total Fluid Transfer by Siemens (bbl)	Total Fluid Frac Tank Strap by NRC (bbl)	% DHI	Total Fluids to Acadiana NRC Frac Strap (bbl)	Total Fluid at Acadiana by strap (bbl)	% Diff	Net Oil (bbl)	Total Fluids to Acadiana NRC Frac Strap (bbl)	Total Fluid at Acadiana by strap (bbl)	% Diff	Net Oil (bbl)	Total Fluids to Acadiana NRC Frac Strap (bbl)	Total Fluid at Acadiana by strap (bbl)	% Diff	Net Oil (bbl)	Total Fluids to Acadiana NRC Frac Strap (bbl)	Total Fluid at Acadiana by strap (bbl)	% Diff	Net Oil (bbl)	Total Net Oil (bbl)	Total Net Oil (bbl)
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		100	10	(-)	4		14	1111	1	
Residual Tank	9/30/2020				85.7 136.5	83.0 131.0	4.0	81.6			-					-			-		128.6	12,916.
Pumpoff #21	10/1/2020	620.9	610.1	-1.8	139.0	139.0	0.0	128.6 130.8	145.3	145.0	0.2	142.1				-				-	128.0	13,045
rumpun #21	10/15/2020	620.9	610.1	-1.0	147.2	144.0	2.2	142.5	136.0	135.0	0.7	132.9			14	الداد					548.3	13,593.
Pumpoff #22	11/16/2020 11/17/2020	685.6	673.2	-1.8	146.5 133.2	143.0 130.0	2.4	139.7 124.3	143.4	142.0	1.0	140.1	146.4	140.0	4.4	128.3					532.4	14,126.
Pumpoff #23	12/30/2020 12/31/2020	781.7	784.3	0.3	146.1 145.3	140.0 141.0	4.2 3.0	137.3 138.4	146.8 113.9	140.0 111.0	4.6 2.5	138.6 107.2	145.2	137.0	5.6	133.9					655.4	14,781.4
Pumpoff # 24	1/27/2021 1/28/2021 2/19/2021	676.5	663.9	-1.9	123.9 141.0 146.0	135.0	7.5	133.7	140.2	140.0 141.0	0.1	137.7	146.8 115.3	112.0	2.9	107.05					517.5	15,298.9
Residual Tank	2/20/2021				100.9	101.5	-0.6	96.0	250.7	141.0		100.0		212.0		107.03			_		96.0	15,394.9
Pumpoff #25	3/8/2021	759.7	738.1	-2.9	144.6 144.1	143.0	1.1	140.9 133.9	146.5 77.3	143.0 75.0	2.4	141.7 70.8	146.0	140.0	4.1	137.4			Е		624.7	16,019.
Pumpoff #26-27	4/21/2021 4/22/2021 4/23/2021	498.2 553.0	472.6 544.3	-5.4 -1.6	143.7 123.5	136.2 129.7	5.2 -5.0	134.8 128.0	142.6 146.4 111.4	138.6 146.7 109.1	2.8 -0.2 2.1	137.2 146.6 106.3	144.1	142.0	1.5	139.9			Ī	Щ	792.8	16,812.
Residual Tank	4/23/2021				132.5	131	1.1	127.0	-										1		127.0	16,939.
Pumpoff #28	5/26/2021 5/27/2021 5/28/2021	716.0	706.1	-1.4	144.5 81.1	140.6 78.0	2.7	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					565.2	17,504.5
Pumpoff #29	7/14/2021 7/15/2021 7/16/2021	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 #30	8/5/2021 8/6/2021	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	109.0 114.2	106.8 124.3	105.0 123.0	1.7 1.0	103.2 118.6					673.4	18705.3
Pumpoff #31	9/23/2021 9/24/2021	616.2	598.4	-3.0	145.6 126.3	141.6 123.1	2.7	140.0 119.8	142.9 138.7	142.9 134.3	0.0	141.8 129.2								Н	530.8	19236.1
Pumpoff #32	11/3/2021 11/4/2021 11/5/2021 11/9/2021	952.4	937.1	-1.6	147.8 152.5 150.2 118.8	147.0 149.0 147.0 117.0	0.5 2.3 2.1 1.5	145.5 147.0 144.8 115.4	148.7 154.6	148.0 145.0	0.5 6.2	146.0 142.2									840.9	20077.0
Pumpoff #33	11/30/2021 12/1/2021	787.9	786.2	-0.2	142.9 141.5	140.5 138.5	1.7	139.5 137.8	144.0 130.9	140.9 128.0	2.2	139.9 127.2	149.6	145.3	2.9	143.6					688.0	20765.0
Pumpoff #34	1/6/2022	686.6	673.8	-1.9	149.6 86.4	140.5 87.0	6.1	138.9 86.3	144.0	148.3	-3.0	146.1	152.3	148.5		147.2				111	518.5	21283.5
Pumpoff #35 Residual Tank	2/16/2022	564.2	551.9	-2.2	144.1 125.5 94.0	144.0 120.0 88.0	0.1 4.4 6.4	142.7 118.3 70.1	140.2 121.8	136.2 114.6	2.9 5.9	140.2 112.3								Ī	513.5 70.1	21867.1
Pumpoff #36	3/23/2022 3/24/2022	690.7	678.5	-1.8	152.5 148.0	148.3 142.1	2.8	147.4 141.1	152.7 157.6	147.9 150.0	3.1 4.8	145.8 144.6			1			-			578.9	22446.0
Pumpoff #37	5/4/2022 5/6/2022	882.7	868.2	-1.7	146.0 145.7	144.0 142.4	1.4	141.4 141.3	151.5 127.3	146.6 125.0	3.2 1.8	143.9 123.7	156.2 70,4	153.0 68.3	2.0 3.0	150.8 67.4	7			Ìij	768.5	23214.5
Pumpoff #38	6/1/2022 6/2/2022	685.4	674.0	-1.7	145.2 140.2	142.0 135.0	2.2	139.9 128.1	150.3 136.6	146.7 132.6	2.4	144.6 130.4									543.0	23757.5

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 Using Strap	to Acadiana	to Acadiana	to Acadiana	to Acadiana	left in	From Trucks,	
		at Port Fourchon by NRC	Measurement	NRC Frac Strap	NRC Frac Strap	NRC Frac Strap	NRC Frac Strap	Frac Tanks	Residual & Decant	%
	Date	(bbl)	(bbl)	(bbl)	(bbl)	(bbl)	(bbl)	(bbl)	(bbl)	Diff
Pump Off #1	4/26/2019	215.7	0.0							
Pump Off #2	5/6/2019 5/3/2019	223 5	15.6	113.7	97.0	0.0	0.0	5 2	215.9	0.1
rump om #2	5/8/2019	223 3	15.0	101.3	82.8	0.0	0.0	17.6	217.3	-2.8
Pump Off #3	5/13/2019	331 2	0.0							
0,000	5/16/2019	005.5	22.5	103.2	126.4	108.5	0.0	16.2	354.3	-1.6
Pump Off #4	6/19/2019 6/20/2019	905 5	32 5	139.4 137.7	138.7 140.7	0.0 140.6	0.0 144.1		310.6 563.1	
	6/21/2019			48.5	0.0	0.0	0.0	0.6	49.1	
	PO4: Total								922 8	-1.8
Pump Off #5	7/31/2019	1196.6	96 3	139.2	142.7				281 9	
	8/1/2019			139.1	140.7	146.0	138.0		563 8	
	8/2/2019			99.8	101.0			45.2	246.0 1188.0	-0.7
Pump Off #6	PO5: Total 8/26/2019	874.6	56 8	141.7	140.3	141.5			480.3	
rump on no	8/27/2019	074.0	*	140.5	137.2	61.3		57.9	396.9	
	PO6: Total							*	877.2	0.3
Pump Off #7	9/23/2019	880.4	41 3	138.0	144.3	142.6			466.2	
	9/24/2019		*	144.4	143.7	55.3		55.3	398.7	
Pump Off #8	P07: Total 10/21/2019	787.4	27 2					*	864.9 27 2	-1.8
Pullip Oli #6	10/21/2019	767.4	27 2	143.9	154.3	144.0			442.2	
	10/23/2019			137.7	130.0	144.0			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	757.0	32 0	142.3	143.8	145.3			463.4	
	11/20/2019 PO9: Total	757 8		145.6	92.1			55.6	293.3 756.7	-0.1
Pump Off #10	12/17/2019	942 8	33.4	142.0	71.4	146.4			393.2	-0.1
rump on #10	12/18/2019	542 0	33.4	146.4	144.3	144.0	47.4	73.9	556.0	
	PO10: Total								949.2	0.7
Pump Off #11	1/9/2020	691 0	39 2	128.7	128.0	129.8		72.7	498.4	
Barthad Tark	1/10/2020	207.0	04.5	79.4	92.6		 	424.7	172.0	
Residual Tank	1/8/2020 PO11: Total	307 0	81 5	141.9				121.7	345.1 1015.5	1.8
Pumpoff #12	2/11/2020	722 5	49.1						49.1	
	2/12/2020		2.7	120.8	102.1	99.0			324.6	
	2/13/2020 PO12: Total		3.9	149.5	114.2			87.5 *	355.1 728.8	0.9
Residual tank	2/17/2020	265 8	93.6	108.2	 -	 		 	201.8	0.5
	2/18/2020		23 5					121.7	145.2	
D	Resid Total	570.2	20.6						347	-1.8
Pumpoff #13	3/11/2020 3/12/2020	570 2	39.6 2.8	114.5	138.3				39.6 255.6	
	3/13/2020		2.0	93.6	120.0			63.7	277.3	
	PO13: Total								572.5	0.4
Pumpoff #14	4/15/2020 4/16/2020	928 8	55.1	147.2	145.2	148			55.1 440.4	
	4/17/2020			144.9	144.1	87.4		65.4	440.4	
	PO14:Total				L	L			937.3	0.9
Residual tank	4/13/2020	244.1	67.6	440.0				25.5	67.6	
	4/14/2020			149.9]		26.6	176.5 244.1	0.0
Pumpoff #15	5/6/2020	783.1	18 3						18 3	5.0
-	5/7/2020		1.2	150.3	148.0	145.2			444.7	
	5/8/2020			147.2	131.7			40.0	318.9	0.2
Pumpoff #16	PO15: Total 5/27/2020	583 3	25 3						781.9 25 3	-0.2
F	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	1				233.0	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	1 2
Pumpoff #18	PO17: Total 7/22/2020	642.6	14 3						944.1	-1.3
. apoii #10	7/22/2020	3-12.0	17.5	129.9	140.6	138.2	139.8	0 0		
	7/28/2020		13.6	66.0			ļ	 	642.4	0.0
Residual Tank	7/22/2020	299.6	67 2 31 3	112.0]		9 <i>1</i> F	206.0	1 2
Pumpoff #19	7/28/2020 9/1/2020	886.4	31 3 7.8	113.0 128.2	135.5			84.5	296.0	-1.2
· 	9/2/2020			131.2	135.9	135.9	134.8	76.2	885.5	-0.1
Residual Tank	8/31/2020	292.6	102.9			<u> </u>		189.7	189.7	

Total Fluid Reconciliation Contd.

		Total Photo	Water Descripted	Truck 1	Truck 2	Truck 3	Truck 4	6 continued	Total of Florid	ř –
		Total Fluid Frac Tank Strap	Water Decanted From Frac Tank	Total Fluids to Acadiana	Total Fluids to Acadiana	Total Fluids to Acadiana	Total Fluids to Acadiana	Residual left in	Total of Fluid 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 #20	9/29/2020	450 9	52 9	144.0	143.5			24.8	450.9	0.0
	9/30/2020			85.7		1				
Residual Tank	9/30/2020	273 2	116.1	1200				47.0	277.2	
D	10/1/2020	C10.1	2.7 14 0	136.5 139.0	145.3			17.9	273.2	0.0
Pumpoff #21	10/15/2020 10/16/2020	610.1	14 0	147.2	136.0			28.6	610.1	0.0
Residual Tank	10/14/2020	293.4	111.8	241.2	150.0			49.5	293.4	0.0
	10/15/2020		132.1				,	1-17-17	21.00	
Pumpoff #22	11/16/2020	673 2	68.7	146.5	143.4	146.4		Towns.	100	-
	11/17/2020		2.7	133.2				32.3	673.2	0.0
Pumpoff #23	12/30/2020	784 3	30 3	146.1	146.8	145.2		100	200	1
	12/31/2020	663.0	23 3	145.3	113.9			56.7	784.3	0.0
Dumma 66 #24	1/27/2021 1/28/2021	663 9	23 3	140.2		7.000		- 1	1000	
Pumpoff #24	2/19/2021		118	146.0	150.7	115.3		68.5	655.8	-1.2
Residual Tank	2/20/2021	164 8	31.1	100.9	130.7	113.5		32.8	164.8	0.0
Pumpoff # 25	3/3/2021	738.1	26.1	200.5				52.5	201.0	0.0
	3/8/2021		5.7	144.6	146.5	146.0	1	1000	1 mg (M)	
	3/9/2021		3.4	144.1	77.3	2,152		47.8	738.1	0.0
umpoff # 26-27	4/1/2021	1016.9	73 8							-
0.0000000000000000000000000000000000000	4/20/2021	1	60 2	1.0						
	4/21/2021			143.7	142.6			100	17.14	
	4/22/2021		6.4	123.5	146.4	144.1		62.2	1014.3	12.
	4/23/2021			111.4				22.		-0.3
Residual Tank	4/21/2021	216 9	9.4	132.5	TORS CONTRACTOR	terror section	30-000-003	23.8	becase seal	
	4/22/2021	1.00	18 2				200		0.00	5.
	4/23/2021		32.6		-				216.5	-0.2
Pumpoff #28	5/26/2021	706.1	72 5	1200	442.2	1.000.0				
	5/27/2021			144.5	141.4	143.3		111	242.2	
D	5/28/2021			81.1	88.7			34.6	706.1	0.0
Pumpoff #29	7/14/2021	621.7	81.4	114.7	150.8	119.8	155.3	9.7	631.7	0.0
Desidual Teals	7/15/2021	631.7 371.2	219.1	114.7	150,8	119.8	155.5	9.7	631.7	0.0
Residual Tank	7/16/2021 7/21/2021	3/12	152.1						371.2	0.0
Pumpoff #30	8/4/2021	750 2	20.4	+				v v		+
rumpon #30	8/5/2021	750 2	20.4	115.3	112.6	106.8				
	8/6/2021	the first of		118.5	118.4	124.3		33.9	750.2	0.0
Pumpoff #31	9/22/2021	598.4	16.7							
	9/23/2021	31,000		145.6	142.9				1.00	110
	9/24/2021		28 2	126.3	138.7				598.4	0.0
Pumpoff #32	11/3/2021	937.1	31.7	147.8	148.7		7			
	11/4/2021			152.5	154.6		1			
	11/5/2021			150.2				-0745	1000	100
	11/9/2021			118.8				32.0	936.3	-0.1
Pumpoff #33	11/29/2021	786 2	56 0	1	10.0	- 577.57	1			
	11/30/2021			142.9	144.0	149.6		2.01	5200	100
D	12/1/2021	672.0	407.4	141.5	130.9			21.3	786.2	0.0
Pumpoff #34	1/5/2022	673 8	107.1	140.5	144.0	452.2				
	1/6/2022 1/7/2022			149.6 86.4	144.0	152.3		34.2	673.6	-0.6
Pumpoff #35		551.0	6.2	00.4				83	555.4	-0.0
rumputi #35	2/8/2022 2/15/2022	551 9	9.3		1			0.3	333.4	1
	2/16/2022		5.5	144.1	140.2	10.000	No. of a l			
A 47 64	2/17/2022	Same of the same		125.5	121.8					0.6
Residual Tank	2/8/2022	207.1	104.8							-
	2/17/2022	53.5	1.5	94.0				68	207.1	0.0
Pumpoff #36	2/21/2022	678 5								
20.0	3/18/2022		54 9	0.4	100				200	
	3/23/2022		3.1	152.5	152.7			31.6	700.4	1
J. 10 14 1	3/24/2022	1-12-18-21		148.0	157.6	Lagrana I			1 1 1 1 1 1	3.1
Residual Tank	3/18/2022	27.7	27.7	40-14-1016	15-KG (## 10		V- 100	0.0	27.7	0.0
Pumpoff #37	4/6/2022	868 2		1 (2.2		11 11				
120 20 1	4/22/2022	1 7 7 1 1 1	22 9	4400	1000	4.734				
	5/4/2022		2.8	146.0	151.5	156.2		8.4 5 3	2200	
	5/6/2022	200		145.7	127.3	70.4		46.2	869.0	0.1
Pumpoff #38	5/15/2022	674 0	46.4							
	5/31/2022	1000000	69 2 3.9	145.2	150.3		10-04			
	6/1/2022									

Barrels of Oil Collected Daily

	Start Date	Start Time (hrs)	End Date	End Time (hrs)	Total Collection Duration (Days)	Net Oil Collected (bbl)	RRS Collection Rate Of Oil (bbl/day)	of	on Rate Oil n/day)
Collection Duration for 1st Trip	4/12/2019	0:00	4/23/2019	1:05	11.0	187.4	17 0	715.7	gallons/day
Collection Duration for 2nd Trip	4/23/2019	1:05	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	1:40	37.4	983.7	26 3	1104.7	gallons/day
Collection Duration for 6th Trip	7/21/2019	1:40	8/18/2019	3:15	28.6	757.2	26 5	1112.0	gallons/day
Collection Duration for 7th Trip	8/18/2019	3:15	9/12/2019	22:30	25.8	749.2	29 0	1219.6	gallons/day
Collection Duration for 8th Trip	9/12/2019	22:30	10/9/2019	10:15	26.5	675.8	25 5	1071.1	gallons/day
Collection Duration for 9th Trip	10/9/2019	10:15	11/10/2019	1:05	31.6	659.1	20.8*	875.5	gallons/day
Collection Duration for 10th Trip	11/10/2019	1:05	12/6/2019	10:25	25.9	818.6	31.6*	1327.5	gallons/day
Collection Duration for 11th Trip	12/6/2019	10:25	12/31/2019	22:25	25.5	567.2	22.2	934.2	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	gallons/day
Collection Duration for 13th Trip	1/30/2020	17:50	3/2/2020	2:00	31.3	456.4	14.6	612.4	gallons/day
Collection Duration for 14th Trip	3/2/2020	2:00	4/2/2020	1:15	31	798.4	25.8	1081.7	gallons/day
Collection Duration for 15th Trip	4/2/2020	1:15	4/25/2020	15:45	23.1	707.7	30.6	1286.7	gallons/day
Collection Duration for 16th Trip	4/25/2020	15:45	5/15/2020	18:40	20.1	513.0	25.5	1071.0	gallons/day
Collection Duration for 17th Trip	5/15/2020	18:40	6/18/2020	22:55	34.2	834.4	24.4	1024.8	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	6:00	33.6	785.5	23.4	982.8	gallons/day
Collection Duration for 20th Trip	8/15/2020	6:00	9/2/2020	13:25	18.3	357.4	19.5	819.0	gallons/day
Collection Duration for 21st Trip	9/2/2020	13:25	10/4/2020	15:20	32.1	548.3	17.1	718.2	gallons/day
Collection Duration for 22nd Trip	10/4/2020	15:20	11/3/2020	16:10	30.0	532.4	17.7	743.4	gallons/day
Collection Duration for 23rd Trip	11/3/2020	16:10	12/10/2020	13:00	36.9	655.4	17.8	747.6	gallons/day
Collection Duration for 24th Trip	12/10/2020	13:00	1/9/2021	9:15	29.8	517.5	17.4	730.8	gallons/day
Collection Duration for 25th Trip	1/9/2021	9:15	2/21/2021	11:30	43.1	624.7	14.5	609.0	gallons/day
Collection Duration for 26th Trip	2/21/2021	11:30	3/15/2021	22:25	22.4				+
Collection Duration for 27th Trip	3/15/2021	22:25	4/8/2021	12:35	23.6		- X		+
Collection Duration for 26-27th 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	5:40	43.7			100	gallons/day
Collection Duration for 32nd Trip	9/4/2021	5:40	10/5/2021	15:30	31.4	(1_12)	1,1	J+1	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	169	709.8	gallons/day
Collection Duration for 35th Trip	12/14/2022	13:20	1/13/2022	23:30	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	543.0	14.7	617.4	gallons/day

Barrels of Oil Collected Per Day Since RRS Install

	Start Date	Start Time (hrs)	End Date	End Time (hrs)	Total Collection Duration (Days)	Net Oil Collected (bbl)	RRS Collection Rate Of Oil (bbl/day)	Collection of O	il
Average collection to date less residual tank	4/12/2019	0:00	5/11/2022	16:43	1125.7	22.727.9	20 2	848.4	gallons/day
Total Collection to date	4/12/2019	0:00	5/11/2022	16:43	1125.7	23,757.5	21.1	886.2	gallons/day

Totals from Pumpoff 1-38

	Bbl	Gal
Net Oil collected	23,757.5	997,815.0
Total Oily fluids collected:	26,878.3	1,128,888.6

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: 05-15-2022
Time Transfer 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	0.0	Part 282.1	224.7	224.7	
Tank 2	0.0		222.7	222.7	
Tank 3	0.0	5+60 403.3	276.6	226.6	
Total	0.0	685.4	674	674	-1.7%

Note: If the % Difference is greater than 3% please attempt to explain the difference:

Sign-off by: USCG Rep Signed Name:

Couvillion Rep Signed Name:

Signed Name:

Signed Name:

Printed Name

Printed Name

Date: 15 May 22

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

Date: 5-31-22 Time: ______

Time Measurements begin after Vessel 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) bbl
Tank 1	224.7	224.7	156.7	68.0
Tank 2	222.7	222.7	2223	0.4
Tank 3	226.6	226.6	225.8	0.8
Total	674	674	604.8	5.99
Tank 4		199.0	163.3	35.7

Sign-off by: USCG Rep (optional) Signed Name:

Couvillion Rep Signed Name:

NRC Rep Signed Name:

Printed Name

Date: 31 may 2 2

Printed Name

Date: 5-31-22

Printed Name

Date: 5-31-22





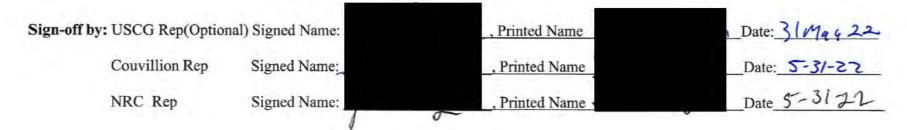
Attachment D: Decanted Water from Frac Tanks to Disposal Facility

Date: ___5-31-22

	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	224.7	156.7	68.0
Tank 2	222.7	2223	0.4
Tank 3	276.6	225.8	0.8
Tank 4	199.0	163.3	3 5 .7

Residual Volume left in Tanks

	Strap Measurement bbl
Tank 1	156.7
Tank 2	222.3
Tank 3	225.8
Trale 4	1633



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Attachment C: WASTE MANAGEMENT TRACKING FORM Residual Frac Tank Bottoms

Date: 5-31-22

Residual Volume left in Tanks

	Strap Measurement after Trucks Loaded in each tank bbls
Tank 1	156.7
Tank 2	222.3
Tank 3	225.8
Tank4	163.3

Sign-off by: USCG Rep (Optional) Signed Name:

Couvillion Rep Signed Name:

NRC Rep Signed Name:

NRC Rep Signed Name:

Printed Name

Date: 31 May 22

Printed Name

Date: 5-31-22

Date: 5-31-22

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Attachment D: Decanted Water from Frac Tanks to Disposal Facility

Date: 6-1-22

	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	156.7	152.8	3.9
Tank 2	222.3	222.3	0
Tank 3	225.8	225.8	0

Residual Volume left in Tanks

	Strap Measurement bbl
Tank I	152.8
Tank 2	222.3
Tank 3	225.8

Sign-off by: USCG Rep(Optional) Signed Name:

Couvillion Rep Signed Name:

NRC Rep Signed Name:

Printed Name

Date: 6-1-77

Printed Name

Date: 6-1-77

Printed Name

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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: 6-1-22

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)
	ACC	2001-01	6-1-22	APC.	145.2		
2	ACC	2001-03	6-1-22	AOC AOC	150.3		
	34						
		Total V	olumes Shi	pped by Gallons/bbls			

Sign-off by: USCG Rep (Optional) Signed Name:

Couvillion Rep

Signed Name:

NRC Rep

Signed Name:

Printed Name

Date: 6-1-22

Page 9 of 15

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

End of Shipments date:

7/8/19





Attachment C: WASTE MANAGEMENT TRACKING FORM Residual Frac Tank Bottoms

Date: 6-1-22

Residual Volume left in Tanks

	Strap Measurement after Trucks Loaded in each tank bbls
Tank 1	152.8
Tank 2	10.7
Tank 3	141.9

Sign-off by: USCG Rep (Optional) Signed Name:

Couvillion Rep Signed Name:

NRC Rep Signed Name:

Printed Name

Date: 6-1-22

Printed Name

Date: 6-1-22

Page 10 of 15





Attachment C: WASTE MANAGEMENT TRACKING FORM

Oily Water Transportation and Net Crude Oil

Start Shipments Date: 6-2-22

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	ACC	2001-01	6-2-22	Ad	140.2		
4	HOC	2001-03	6-2-22	ACC	136.6		
				- 197-		II - I	
		Total Vo	olumes Shi	pped by Gallons/bbls			

Sign-off by:USCG Rep (Optional) Signed Name:

Couvillion Rep Signed Name:

NRC Rep Signed Name:

Printed Name

Date: 6-2-22

Printed Name

Date: 6-7-22

Page 9 of 15

Doc #: Couv-O&M-Doc-00004 Couv-MC20-O&M-RPT-DOC-00062

End of Shipments date:

7/8/19





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.)
			15	9/10	15	

Sign-off by:USCG Rep(Option	nal) Signed Name;	Z Printed Name !	Date: 6 - 2-22
Couvillion Rep	Signed Name:	Printed Name	Date: 6-2-72
NRC Rep	Signed Name:	, Printed Name	Date_ 6-242
			, , , , ,

Page 11 of 15





Attachment C: WASTE MANAGEMENT TRACKING FORM Residual Frac Tank Bottoms

Date: 6-2-22

Residual Volume left in Tanks

	Strap Measurement after Trucks Loaded in each tank bbls
Tank 1	12.6
Tank 2	10.7
Tank 3	5.3

Sign-off by:USCG Rep (Option	al) Signed Name	, Printed Name	Date: 6-2-22
Couvillion Rep	Signed Name:	, Printed Name	Date: 6-2-22
NRC Rep	Signed Name:	Printed Name	Date 6-2-72

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ACADIANA OIL & ENVIRONMENTAL CORPORATION

1206 Lemaire St. • New Iberia, LA 70560 337-560-5573 TRANSPORT MANIFEST

Lease Run Ticket

23934

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"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".

Shipper: Mike LeBlanc Jr. Date:

NOTICE: Shippers response telephor	BILL OF LADING — 9 s of hazardous materials must no number under "Emergency	enter 24 hour e	mergency	Date 6-	1-22	Bill of La	ading No	2	
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Pet III L PLAT									

MINTAL TRANSPORT MANIFEST .iON Lease Run Ticket New Iberia, LA 70560 37-560-5573 24462 RESPONSE CONTACT: ES&H 22 985-851-5055 Operator Court (10N Lease No. CG Lease Name Fouchow La Field BS&W LEVEL OIL LEVEL TANK TEMP INCHES INCHES 1st 2nd SIZE EST. GROSS GALLONS SERIAL NUMBERS OBSERVED GRAVITY 9 @ 82°F 190 8016 PERCENT 5 TEMPERATURE 1908075 OF OIL 100 meter (686611.8 OFFICE USE ONLY TRUCK TMO GRAVITY CORR. TO 60 °F 1686758.5 0400-1400 TIME ARRIVED PM 1040 1st 10 hrs TIME DEPARTED 1140 2nd GROSS SARRELS central CRUBE (Shall STATION GILLSON X FACTOR BS & W FACTOR TEMP. FACTOR X FACTOR NET BBLS. PER RUN TIC. 9909 9859 .9950 144.64 GROSS OP E TARE LOS NET OPERATOR'S WITNESS I.D. PROPER HAZARD PG TOTAL NUMBER SHIPPING NAME CLASS BBLS UN PETROLEUM CRUDE OIL 3 111 1267

"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".

Shipper: Mike LeBlanc Jr. Date:

Couv-MC20-O&M-RPT-DOC-00062

STRAIGHT BILL OF LADING - SHORT FOI NOTICE: Shippers of hezardous materials must enter 24-hour e response telephone number under "Emergency Response Phon Original—Not Negotiable	RM emergency le Number Orl Company	-2-22	Bill of L Shipper	ading No.	3	
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ACADIANA OIL & ENVIRONMENTAL CORPORATION

1206 Lemaire St. • New Iberia, LA 70560 337-560-5573 TRANSPORT MANIFEST

Lease Run Ticket

23935

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	C L D			
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I.D. NUMBER	PROPER SHIPPING NAME	HAZARD CLASS	PG	TOTAL BBLS
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	Temp			1.49
	BSIN			SUN

"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".

Shipper: Mike LeBlanc Jr. Date:

Couv-MC20-O&M-RPT-DOC-00062

	none number under "Emergency Resport Negotiable	24-hour emergency lonse Phone Number	/	-2-22	Shippe	ading No.	,7	
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CLASSIFIED, DESCRIBED, PACKAGED, MARKED, AND LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION, ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION".

Shipper: Mike LeBlanc Jr. Date:

Appendix II

NRC Waste Handling Documentation

DECLARATION OF INSPECTION

DECLARATION OF INSP	ECTION	
PORT FOURTHON GTS/convilled DOCK	05-15-22	0700
NAME OF VESSEL Banderlow	DATE TRANSFER OPERA	
An oil transfer operation may not commence to or from a vessel unless the by the respective transferring and receiving persons in charge. Persons in charge indicate by a check $()$, in the appropriate spaces, that		
		7.27
VESSEL A. The mooring lings are adequate for all anticipated conditions.		FACILITY
B. Cargo hoses and/or loading arms are long enough for intended	use	·····
C. Cargo hoses are adequately supported to prevent undue strain or	n the couplings	19
D. The transfer system is properly lined up for discharging or rece	iving oil. (Additional checks shall	-
be performed each time a valve is repositioned.)		05
E. Each flange connection on the cargo system not being used dur	ing the transfer operation is blank	ed
or shut off	Folds voice applicate and a ballion	JB
every other hole, (minimum of 4 bolts). Exception: Tanks with	out fixed loading systems per wais	/er
from the Captain of the Port		OB
G. The overboard or sea suction valves are sealed or lashed in the	closed position	0.6
H. Adequate spill containments have been provided for couplings.	******************************	100
I. All scuppers or other overboard drains are closed or plugged. J. A communications system is provided between the facility and the system is provided between the system is provided by the system i		83
J. A communications system is provided between the facility and to K. Emergency shutdown system is available and operable	he vessel	Js
L. Communication procedures are established and understood between	ween nersons in charge	100
M. Qualified and designated personnel are in charge and on duty a	t the terminal and vessel control s	tations 88
N. One person at the vessel control station is present who fluently	speaks the language of the termin	al control
station		43
O. The owner of the cargo hoses will insure test requirements have	been met and that the hose has no	oloose
covers, kinks, bulges, soft spots or gouges, cuts and slashes whi	ch penetrate the hose reinforceme	nt and
that hoses are marked for identification and test data is maintain P. Adequate lighting of the vessel and terminal work areas and ma	nifold areas is provided	
Q. Persons in charge have held a conference to assure the mutual u	inderstanding of the following trai	sfer operations:
1. Product identity to be transferred	**************	0.6
2. Sequence of transfer operation.		OB
3. Transfer rate of flow		KO
4. Name or title and location of each person participating in the	transfer operation	
5. Particulars of the transferring and receiving systems	d and understood	JD
7. Emergency procedures including notification, containment at	nd cleanup of spills	OOB
8. Watch and shift arrangements		03
8. Watch and shift arrangements		213
ne following items are to be filled out by Vessel personnel only.		1
te following items are to be fined out by vessel personnel only.		
1. Warning signs and read warning signals (35.35-30).		
2 2. Repair work authorization (35.35-30).		
3. Boiler and galley fires safety (35.35-30).		
4. Fires or open flames (35.35-30).		
5. Safe smoking space (35,35-30).		
ertify that I have read, understand and agree with the foregoing as market	ed and some to begin / and and all	
and agree with the foregoing as marke	and agree to begin/continue the	transfer operatio
PERSON		
N CHARGE OF		
VESSEL		
Time AC as Date 5-15-25	Time Date	15 1 1 n

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

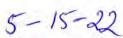


Facil	: 5-15-22 Location: GIS Oock			
raci	lity/Vehicle Number:	Start	Time E	nd Time
Vess	el Name: Brandon Bornelon			
	el Official Number:	Vessel Capacity (Total)	(bble):	
	luct Transferred: Crude			
100		Est. Transfer Volume		
	Note For Emergency Notification De	<u>ischarge amounts (Gallons)</u>	<u>:</u>	
	age most probable:			
	mum most probable:			
Wors	t case discharge:			
1	The following list refers to requirements set forth in d	etail in 33 CFR 156.150 an	d 46 CFR 3	35.35-30.
	The spaces on the left are to be reviewed by ALL PIC's			and the second second
7	The right hand columns are to be initialed by the appropriate of the columns are to be initialed by the appropriate of the columns are to be initialed by the appropriate of the columns are to be initialed by the appropriate of the columns are to be initialed by the appropriate of the columns are to be initialed by the appropriate of the columns are to be initialed by the appropriate of the columns are to be initialed by the appropriate of the columns are to be initialed by the appropriate of the columns are to be initialed by the appropriate of the columns are to be initialed by the appropriate of the columns are to be initialed by the appropriate of the columns are to be initialed by the appropriate of the columns are to be initialed by the appropriate of the columns are to be initially as the columns are to be initially as the columns are to be a column at the column at the columns are to be a column at the	priate PIC and/or noted as no	t applicable	with (N/A
	Items on the list are provided to indicate that the detaile			
	toms on the list are provided to indicate that the detaile	d requirements have been in	et	
	<u>TOPIC</u>		PIC	PIC
	Verify PIC designation/qualification 33 CFR 154.710, 154.7	30, 154, 740(b)	Delivering	Receivin
	Person In Charge (PIC): In Immediate Vicinity and Available	e	ar	03
	Personnel: Capable/Unimpaired		ce	JUB
	Name, title and location of each person participating in the tr	ansfer operation	a	1
	MC 20 Subsea Storage Offloading Operations & Maintenance	ce Manual present with		
	procedures and particulars of the transfer and receiving syste	ms to be followed and verified	CF	1 1
	with key personnel involved in these operations Watch and shift arrangements discussed			1
	Cargo is Authorized for transfer to or from tanks	-	CF	90
	Discuss if transfer will need to stopped to change tanks – sup	a	1991	
	Discuss transfer rates and max allowable to receiving facility	pry or receiving jucinity	CP	186
	(Facility/Vessel) properly vented (monitoring vacuum and po	ositive tanks pressure)		100
	Communications & No Language Barrier	p	CT CT	7013
Hos	ses and Connection - 33CFR 154.500			· Jx
	Nonmetallic hoses usable for oil or hazardous material servic	e	N	46
	Proper connections (must be one of the following):		CF	010
-	Fusion 100 hammer union connections		CP	93
-	Quick-disconnect coupling present on suction side of pump Examine transfer hose markings or records.		CP	25
	Name of product handled; example "OIL SERVICE," or "HA	ZMAT SERVICE?	CP	933
Exa	mine Transfer Hose condition - 33CFR 156.170	AZMAT SERVICE	cr	1 20
	No unrepaired kinks, bulges, soft spots, loose covers, other de	efects		100
	No cuts, slashes, or gouges that penetrate the first layer of ho	se reinforcement	CR	10
	No external/internal deterioration	oo reminoreement	of or	900
Em	ergency shutdown - 33CFR 156.170			yo
	Test emergency shutdown - 33CFR 154.550 - who controls	the emergency shutdown	cr	113
	Communication system continuously operated.		OF	18
	Verify operating properly (Electric, pneumatic, or mechanica	l link to facility; electronic		10
	voice)		CF	98
	Record test info in physical information.	1	er	20
Exa	mine closure device - 33CFR 154.520 Verify enough to blank off ends of each hose /loading arm no	1 - 1 - 1 - 1 - 1 - 1		-
	VELLIV CHURCH IN DISHK AIT PROS AT A968 NACA /A964NA 988 NA	Connected for transfer	ce	118
Incr	pect Small Discharge Containment - 33CFR 154.530	to connected for transfer	C	70



	Pre-Transfer Conference and Agreement (Continued)		
	TOPIC	PIC	PIC
§ In	spect discharge containment equipment for oil & hazardous liquids - 33CFR 154	Delivering 545	Receiving
-	Verify booming for oil or hazmat transfer (if required by COTP).		UK
	Verify adequate amount of equipment and/or absorbent material for initial response	ar ce	TAX .
	Inspect condition of response equipment stored on facility (if applicable).		WA.
	Verify availability of at least 200 feet of containment boom onsite within 1 hour.	CF CF	AV.
	Verify means of deployment.	or or	700
§ M	eans of Communication - 33 CFR 154.560	<u>u</u>	72
	Verify continuous two-way voice communication between vessel and facility PICs.	G	013
	Communications must meet the following requirements		1
	Portable Radio:		
	IF Flammable or Combustible Liquids	cr	013
	Marked or documented as intrinsically safe.	cr	100
	2. Certified as intrinsically safe by national testing labor certification organization.	CT.	23
	Voice	16/	
	1. Be audible.	CP	90
	Test communications. SAT ☐ UNSAT ☐	er	013
§ In	spect lighting systems - 33 CFR 154.570		1
	Verify portable lighting for operations between sunrise and sunset (if applicable).		OB
	At transfer operations work areas for facility and vessel	no no	113
	At transfer connection points for facility and vessel	CF.	OAB.
	Verify sufficient number or fire extinguishers.	oc.	98
	Verify protective equipment is ready to operate.	CA	08
	Verify warning signs are adequate.	G.	62
	§ VESSEL ONLY - 155.730 Compliance with VESSEL TRANSFER		13
	PIC for vessel/operator is required by §155.720 to have current transfer procedures	rkocedokes g	
	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		7
	Permanently posted or available and used by members of crew engaged in transfer of	neration	
	Appropriate tank level monitoring (visual, gauging, indicators, etc.)	peration	
	Arrangements to monitor draft marks during transfer		
	Transfer Piping Line diagram, location of each valve, pump, control device, vent, ar	nd overflow	
	Shutoff valve location or isolation device separating bilge or ballast from the transfer	er system	
	Adequate containment on the vessel at loading or discharge connection	a system	
	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	155.320	
	Procedures for tending the vessel's moorings during the transfer of oil or hazardous	material	
	Procedures for emergency shutdown/communications required by §§155.780 and 15	55.785	
	Procedures for topping off tanks		
	Procedures ensuring all valves used during transfer are closed upon completion of tr	ansfer	
	I do certify that I have personally inspected this facility or vessel with refer	The second secon	auto
	aforementioned and that I have indicated that the regulations have been co	unlied with if annlie	abla
	The second with the second sec	mpuea wun ij appue	anie.
		C-15-22	
		DATE	TIME
		DATE OF THE PROPERTY OF THE PR	THAIL
		05-15-22	
		DATE	TIME
/	TRANCER COLOR		
	TRANSFER COMPLETED:		
	AMOUNT (GALLONS)	DATE	TIME

Me20 Purpoff #38





SAFETY MANAGEMENT SYSTEM

Site Specific Safety Plan

Project Name: MC20 Recovered Crude Oil Transfer

Revision: 08/2019

NRC PROJECT PERSONNEL AND EMERGENCY CONTACTS				
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				

Troopredit / Tredit	cai incervencion	Lady of the Sea H	ospitai. Gaillailo,	LA (985) 632-6401	
Date: 5-1	15-22	Start Time:	0630	Job Number: _	19-0192
☐ Lan		ponse		☐ Land Service ⊠ Marin	ne Service
NRC will facilitate collecting crude of the moored to the walled frac tanks Once the frac tan	removing recover oil from the location dock at the above on the dockside.	red crude oil from the wan and storing it on Marine location and transfer the urchon docks are ready frinal destination.	ell located at MC20 ne Portable Tanks he recovered crud for transfer the cru	, LA. 70357 (985) 396-451 0 project. The M/V_BC (MPTs) located on her dec e from the MPTs on her dec ude will then be transferre	has been ck. The vessel will eck to double
	-	SCOPE	OF WORK		
transfer hose and a vessel will transfer operator will open t Once the transfer is to "blow down" any	ly rated and tested r ffixed to the frac tar the crude oil in her t the next manifold va s complete a 1-inch a r residual product lef	manifold. The manifold has nks. Once the connections tanks using a 4-inch pneun live and close the active on airline with the proper fitting ft in the hoses to ensure no	s one inlet and three s are secured and the natic diaphragm pun ne. This process will ng will be given to the o product is spilled w	te dock where it will be connected outlets. Each outlet will be fee declaration of inspection (Dnp. As the frac tanks near cat continue until all three frac the M/V's crew to send compressive the hoses are disconnected outline of the crude oil will be pumped until the connected of the crude oil will be pumped until the connected of the crude oil will be pumped until the connected of the crude oil will be pumped until the connected of the crude oil will be pumped until the connected of the crude oil will be pumped until the connected of the crude of the crude oil will be pumped until the connected of the crude oil will be pumped until the connected of the crude oil will be pumped until the connected of the crude oil will be pumped until the connected of the crude oil will be pumped until the connected of the crude oil will be pumped until the connected of the crude oil will be pumped until the crude oil will be crude oil will be pumped until the crude oil will be crude oil will	fitted with a 3-inch (OI) is complete, the apacity the dockside canks are at capacity. assed air up the hose cted.

pneumatic diaphragm pump to transport trailers to be sent to final destination.



SAFETY MANAGEMENT SYSTEM

Revision: 08/2019

Site Specific Safety Plan

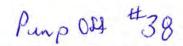
Project Name: MC20 Recovered Crude Oil Transfer

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

ATTAOMILITIO				
Attachment	TITLE	Attachment	TITLE	
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			





SAFETY MANAGEMENT SYSTEM

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

Revision: 08/2019

SAFETY PLAN APPROVAL

Bridge Date 05 -15 - 22 **Site Safety Officer**

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 am aware that I am to sign in at the beginning of the shift and sign out at the end of my shift on the Daily Safety Meeting form. 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			
5/15/D 5/15/22					
5-15,22					



SAFETY MANAGEMENT SYSTEM

SAFETY IT'S THE WAY TO GO!

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

Revision: 08/2019

CHEMICAL INFORMATION

CHEMICAL / CAS	CHEMICAL PROPERTIES	EXPOSURE LIMITS Action Levels	ROUTES OF ENTRY	SYMPTOMS
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	May include eye, nose and throat irritation, digestive tract, nausea, vomiting, diarrhea, headache, drowsiness, dizziness, loss of coordination, disorientation and fatigue
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.

RESPIRATORY PROTECTION PLAN

The NRC SMS Procedure 13.2 for Respiratory Protection is provided in Attachment C.





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AIR MONITORING / ACTION LEVELS

Chemical Hazard	Instrument	Action Level	Action		
Oxygen (O₂)	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% Hydrogen Sulfide (H2S) 4-gas 10 ppm >10 ppm		 Stop work, determine source of hazard and apply engineering control (ventilation) until reading can be brought below 10%. 			
		 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 		



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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

Site Specific Safety Plan
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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	3	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 Space				NRC Confined Space Rescue
✓ API Safe Rigging Practices		1	Documentation of compliance with Drug Free Work Place		
	Competent Fire Wat	ch Desig	gnated Personnel		Qualified Pressure Washer Operator



SAFETY

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DECONTAMINATION AND DISPOSAL

DECONTAMINAT	TION EQUIPMENT
Usqueen on Ground Carpet on Ground Wooden 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 DECOL	NTAMINATION PLAN
Unzip suit / pull off hood Roll down suit / inside out and place into labeled contain Remove respirator Use wipes to clean Store respirators in plastic bags after drying Remove inner gloves PPE and debris will be bagged, accounted for, and bulke Store respirators in individual plastic bags with employee	deterior of PPE prior to dry decon (stage 1 decon) rs removed to waste bin at end of each shift d leather outer gloves may be reuse if still in good condition) mer d into the applicable waste bin or container e names
	GEMENT PLAN
Contaminated disposable PPE & debris from operation sh	laii be piaced in an approved container



Site Specific Safety Plan

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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



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EMERGENCY MEDICAL TREATMENT AND FIRST AID

TYPE CONTACT	FIRST AID
Eyes	 Flush each eye continuously for 15 minutes Tilt head to side to ensure liquid runs onto floor not other eye Refer to EMT for evaluation
Skin	 Remove contaminated clothing immediately 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 D Determination will be made regarding need for post accident drug testing
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EMERGENCY RESPONSE PLAN

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 / See site map and follow established emergency procedure MEETING POINT			





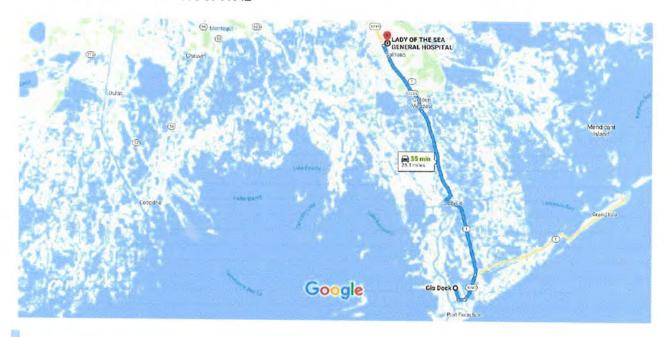
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Site Specific Safety Plan Project Name: MC20 Recovered Crude Oil Transfer

Hospital Route

Google Maps

Gis Dock to LADY OF THE SEA GENERAL Drive 28.1 miles, 35 min HOSPITAL





via LA-1 and LA-3235

35 min

Fastest route, the usual traffic ▲This route has restricted usage or private roads.

28.1 miles

NRC

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de Count 5/31/22

SAFETY MANAGEMENT SYSTEM

Job Hazard Analysis

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TASK DESCRIPTION: MC 20 Recovered Crude Oil / Vessel to Shore Transfer SUMMARY OF POTENTIAL HAZARDS (Check applicable) Heavy or awkward lifting / Pinch Points or caught between Working and walking surfaces; slip, trip, fall movement New / Inexperienced employees Spill / containment Heat stress environment Struck by or crush hazard Noise levels (>85 dBA) Hazardous liquids, vapors, waste Elevated surfaces / Fall / Ladders APPLICABLE REGULATION / SOPS / ALERTS SMS 19.2 Vacuum Trucks MINIMUM PERSONAL PROTECTIVE EQUIPMENT (Check applicable) Level A Mard Hat ☐ High Visibility Vest Leather Steel Toe Boots PFD / Work vest Level B Safety Glasses ■ Long Sleeves / Coveralls ☐ Disposable boot covers Level C Face Shield Chemical protective clothing Neoprene Steel Toe Boots X Level D Hearing Protection Respirator: Gloves: JOB HAZARD ANALYSIS Job Steps Potential Hazards Preventive Measures / Special PPE 1. Pre-job Meetings The operational plan, hazards and controls will be explained Personnel do not understand the Behavior Based Safety to all involved personnel in Safety/Ops meeting. Personnel operational plan, relevant hazards will be encouraged to ask questions if they are unsure of or their roles/responsibilities any project details Personnel do not stop work when Immediate supervisor will remind their crews of their hazards are identified Authority and Responsibility to Stop work and contact their Personnel do not report injuries, supervisor if they discover a hazard illnesses, near misses or incidents Personnel will be instructed to report any injuries, illnesses, near misses or incidents Site Survey and Uneven working surfaces and trip Inspect site for correctable walking surface hazards. Flag or Equipment Set-up hazards. correct unsafe conditions. Position equipment and hoses Equipment not certified, not tested away from travel paths. Identify "no-go" areas. or damaged All equipment will be inspected for current certifications, Improper set-up due to untrained testing and serviceable working condition prior to work or unqualified personnel Personnel will be pre-selected to perform tasks based on verified competency Vehicle movements Personnel, equipment or hoses Ground guides will be used for equipment movements. Non-essential personnel will clear the travel path. Travel struck or crushed by moving vehicles or equipment path will be confirmed as clear prior to movements. Vehicles not inspected prior to Vehicles will be inspected by drivers prior to travel and movements. Unsafe for travel, after travel for potential damage. Unsecured items create dropped Vehicles will be inspected to ensure that there are no object or road hazards. loose items and that loads are secured properly. Mooring Vessel and Personnel struck by thrown lines or When tossing the mooring lines to the shore allow the lines working near water caught in "line of fire". to fall on the ground and pick them up. Do not attempt to catch mooring lines from the M/V. Personnel pinched or crushed When mooring the vessel, keep hands, fingers, arms, and all during vessel movements. other body parts from between the mooring line and the Personnel fall into the water. Man bits on the dock overhoard Never work alone. All personnel within 5' of the docks edge are required to wear a USCG approved PFD. Always discuss "man overboard" procedures prior to work. Have life ring and recovery plan in place. Connecting hoses Identify, communicate and avoid all crush/pinch points: Personnel crushed or pinched including cam-lock connections, vehicles and other moving while connecting transfer hoses. parts or equipment Personnel suffer back strain or Transfer hoses can be heavy and when handling these other ergonomic related injuries hoses employees shall use proper ergonomic practices during connections or moving including keeping your back as straight as possible as well as lifting with your knees and not your back

Slip/trip/fall hazards while working

· Observe good housekeeping and maintain situational





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
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.
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. Polypropylend 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 then 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. 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



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Job Hazard Analysis

Revision: 08/2015

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 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
			2 - 2	7/27/29
			PM	5/3/

ACKNOWLEDGEMENT

Employee Name	Signature	Date
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Job Hazard Analysis

831/30

5/31/22



MC20

2 Trucks

66-2-22



SAFETY MANAGEMENT SYSTEM

Revision: 08/2015

Job Hazard Analysis

TASK DESC	KIPTION: MC	20 Rec	covered Crude Oil / Vessel	to Shore	e Transfer	
			SUMMARY OF POTENTIAL HAZA	RDS (Che	ck applicable)	
	wkward lifting /		Pinch Points or caught between	n	Working and wall	king surfaces; slip, trip, fall
☐ New / Inex	perienced employe	es	Spill / containment	Spill / containment		onment
Struck by c	or crush hazard		Noise levels (>85 dBA)			Control Control
Hazardous	liquids, vapors, wa	ste	☐ Elevated surfaces / Fall / Ladd	ers	ī	
			APPLICABLE REGULATION		ALERTS	
☐ SMS 19.2 \	/acuum Trucks			700.07		
		M	INIMUM PERSONAL PROTECTIVE EC	HIDMENT	(Check applicable)	
Level A Level B Level C Level D	☑ Hard Hat☑ Safety Glasso☐ Face Shield☑ Hearing Prot	95	☐ High Visibility Vest ☐ Long Sleeves / Coveralls ☐ Chemical protective clothing ☐ Respirator:	☐ Dispo	her Steel Toe Boots osable boot covers prene Steel Toe Boots	PFD / Work vest
			JOB HAZARD AI	VALYSIS		
	ob Steps		Potential Hazards			sures / Special PPE
	ob Meetings vior Based Safety	• Pe	ersonnel do not understand the perational plan, relevant hazards r their roles/responsibilities ersonnel do not stop work when exards are identified ersonnel do not report injuries, nesses, near misses or incidents	•	to all involved personnel will be encouraged to as any project details Immediate supervisor will Authority and Responsib supervisor if they discove	ed to report any injuries, illnesses,
	urvey and oment Set-up	• Eco	neven working surfaces and trip azards. quipment not certified, not tested r damaged nproper set-up due to untrained r unqualified personnel	٠	correct unsafe condition away from travel paths. All equipment will be inst testing and serviceable	le 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. Vehic	le movements	st ve • Ve m	ersonnel, equipment or hoses ruck or crushed by moving chicles or equipment chicles not inspected prior to ovements. Unsafe for travel. nsecured items create dropped oject or road hazards.		Ground guides will be use Non-essential personne path will be confirmed a Vehicles will be inspected after travel for potentia Vehicles will be inspected	ed for equipment movements. I will clear the travel path. Travel is clear prior to movements. I by drivers prior to travel and I damage. I to ensure that there are no ids are secured properly.
worki	ing Vessel and ng near water	Pe ca Pe du Pe	ersonnel struck by thrown lines or rught in "line of fire". ersonnel pinched or crushed aring vessel movements. ersonnel fall into the water. Man verboard.	-	When tossing the mooring to fall on the ground and catch mooring lines from When mooring the vessel, other body parts from be bits on the dock Never work alone. All pers are required to wear a U	glines to the shore allow the lines of pick them up. Do not attempt to the M/V. keep hands, fingers, arms, and all etween the mooring line and the sonnel within 5' of the docks edge SCG approved PFD. Always discussures prior to work. Have life ring
5. Conne	ecting hoses	Pe ot di ho	ersonnel crushed or pinched hile connecting transfer hoses. ersonnel suffer back strain or ther ergonomic related injuries uring connections or moving oses	٠	Identify, communicate and including cam-lock conne parts or equipment Transfer hoses can be he hoses employees shall us including keeping your bast lifting with your knees	d avoid all crush/pinch points: ections, vehicles and other moving avy and when handling these se proper ergonomic practices ack as straight as possible as well





Job Hazard Analysis

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 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 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



SAFETY IT'S THI WAY TO GO

Job Hazard Analysis

Revision: 08/2015

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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. Breaktime	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 wll 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
			6	7/27/20
			DM	06/02/





Job Hazard Analysis

Revision: 08/2015



4

MC20 Tarcks



X Level D

O Job Steps

Pre-job Meetings

Hearing Protection

SAFETY MANAGEMENT SYSTEM

Job Hazard Analysis

SAFETY IT'S THE WAY TO GO!

Revision: 08/2015

TASK DESCRIPTION: MC 20 Recovered Crude Oil / Vessel to Shore Transfer SUMMARY OF POTENTIAL HAZARDS (Check applicable) Heavy or awkward lifting / Pinch Points or caught between Working and walking surfaces; slip, trip, fall movement New / Inexperienced employees Spill / containment Heat stress environment Struck by or crush hazard Noise levels (>85 dBA) Hazardous liquids, vapors, waste Elevated surfaces / Fall / Ladders APPLICABLE REGULATION / SOPS / ALERTS SMS 19.2 Vacuum Trucks MINIMUM PERSONAL PROTECTIVE EQUIPMENT (Check applicable) Level A Mard Hat High Visibility Vest Leather Steel Toe Boots PFD / Work vest Level B Safety Glasses ■ Long Sleeves / Coveralls Disposable boot covers Level C Face Shield Chemical protective clothing ☐ Neoprene Steel Toe Boots

JOB HAZARD ANALYSIS

☐ Gloves:

Preventive Measures / Special PPE

The operational plan, hazards and controls will be explained

Respirator:

Potential Hazards

Personnel do not understand the

Behavior Based Safety	Personnel do not understand the operational plan, relevant hazards or their roles/responsibilities Personnel do not stop work when hazards are identified Personnel do not report injuries, illnesses, near misses or incidents	 The operational plan, nazards and controls will be explained to all involved personnel in Safety/Ops meeting. Personnel will be encouraged to ask questions if they are unsure of any project details Immediate supervisor will remind their crews of their Authority and Responsibility to Stop work and contact their supervisor if they discover a hazard Personnel will be instructed to report any injuries, illnesses, near misses or incidents
2. Site Survey and Equipment Set-up	 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. Flag or correct unsafe conditions. Position equipment and hoses away from travel paths. Identify "no-go" areas. All equipment will be inspected for current certifications, testing and serviceable working condition prior to work Personnel will be pre-selected to perform tasks based on verified competency
3. Vehicle movements	Personnel, equipment or hoses struck or crushed by moving vehicles or equipment Vehicles not inspected prior to movements. Unsafe for travel. Unsecured items create dropped object or road hazards.	 Ground guides will be used for equipment movements. Non-essential personnel will clear the travel path. Travel path will be confirmed as clear prior to movements. Vehicles will be inspected by drivers prior to travel and after travel for potential damage. Vehicles will be inspected to ensure that there are no loose items and that loads are secured properly.
4. Mooring Vessel and working near water	 Personnel struck by thrown lines or caught in "line of fire". Personnel pinched or crushed during vessel movements. Personnel fall into the water, Man overboard. 	 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 work alone. All personnel within 5' of the docks edge are required to wear a USCG approved PFD. Always discuss "man overboard" procedures prior to work. Have life ring and recovery plan in place.
5. Connecting hoses	Personnel crushed or pinched while connecting transfer hoses. Personnel suffer back strain or other ergonomic related injuries during connections or moving hoses Slip/trip/fall hazards while working	 Identify, communicate and avoid all crush/pinch points: including cam-lock connections, vehicles and other moving parts or equipment 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



Revision: 08/2015

Job Hazard Analysis

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		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

Revision:	08/2015

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REVIEW

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Position/Title	Reviewed By	Position/Title	Date
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Job Hazard Analysis

Revision: 08/2015

6-1-22



No. 11959

NON-HAZARDOUS MANIFEST

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AGED AND ARE IN PROPER CO	ONDITION FOR TRANSPORT	TATION ACCORDING	TO APPLICABLE	REGULATIONS.			
Generator Authorized A	Agent Name (Print)	Signature		Delivery Date			
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				Carlotte Charles			
I.D. #							
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