

Couvillion Group, LLC MC 20 Hydrocarbon Pump-Off #16 Results Report

Document #: Couv-MC20-O&M-RPT-DOC-00043 6/2/2020

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Revision	Date	Ву	Check	Approve	Remarks
0	6/2/2020	REDACTED			Initial Document

Summary:

Couvillion Group's Rapid Response Collection System initiated it's sixteenth collection cycle on 4/25/2020 and completed the cycle on 5/15/2020 resulting in a collection duration of 20.1 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 Venice, Louisiana. Vessel to Dockside Transfer commenced on 5/19/2020, with 583.3 bbl of hydrocarbon fluids transferred to onshore frac tanks 1-3 according to NRC frac tank strapping. Over the next 8-day period water separated from the oil and was collected in the bottom of the frac tank.

On the morning of 5/27/2020 Couvillion Group confirmed the initial measurement of 583.3 bbl of hydrocarbon that remained in tanks 1-3 via strap measurements. After a confirmation measurement was recorded, the decanting process began. From frac tanks 1-3, a total of 25.3 bbl of water was decanted and sent to the residual tank for further separation. A gross total of 530.2 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 513.0 bbl of oil was transferred from tanks 1-3 in the Venice Yard to the Acadiana Oil Company in Berwick, Louisiana. After frac tank 1-3 processing was completed a total of 27.8 bbl of residuals were transferred from frac tanks 1-3 to the residual tank. Total fluid reconciliation for frac tanks 1-3 was 0.0%.

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 have been approved by USCG, that are followed throughout the process. The USCG approved 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 5/15/2020 at 1400 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. Pumping commenced at 1845 hrs on 5/16/2020 and ended at 1935 on 5/17/2020. 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 598.8 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 Venice, Louisiana on 5/18/2020. On the morning of 5/19/2020 hoses were run from the tanks on the vessel through a diaphragm pump which was on a Couvillion provided barge and then run to 500 bbl frac tanks onshore. 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 and then an NRC representative strapped the dockside frac tanks to determine **the total quantity transferred which was 583.3 bbl.** With dockside transfer complete, the fluid was allowed to settle out water from the oil over a period of 8 days before transfer of the oil

from the frac tanks to tank trucks. On 5/27/2020, 25.3 bbl of water that had separated from the oil in the frac tanks was sent to a vac truck for disposal at Evergreen ERR in Belle Chasse, La. Additionally, 67.2 bbl of water was loaded into the same vac truck from the fourth frac tank, also known as the residual tank. The vac truck quantity totaled 92.5 bbl of water which was sent for disposal.

Dockside Frac Tanks to Truck Transfers

On the morning of 5/28/2020 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 142.1 bbl of hydrocarbon fluids. The second day of frac tank to tank truck transfers began on 5/29/2020 at 06:00. The first truck was loaded with 138.0 bbl, the second truck was loaded with 135.1 bbl, and the third and final truck was loaded with 115.0 bbl. At this time an NRC Representative and a Couvillion Representative with oversight from USCG, double checked all strap measurements in the trucks, and residual left in the frac tanks. All values were recorded in the appropriate forms in the MC-20 Response Disposal Plan (see report Appendix I). Trucks were then released and began transport to the Acadiana Oil Company site in Berwick, Louisiana.

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. In other words when the tank truck volume is full, half-full and nearly empty. These readings are referred to as top, middle and bottom readings, respectively. These (3) samples are mixed together and then shaken vigorously 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 in order 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 583.3 bbl of hydrocarbon fluid was transferred from the Brandon Bordelon into an onshore frac tank. Tank trucks transported a gross total of 530.2 bbl to the Acadiana Oil Company, which netted out to a total of 513.0 bbl. From a total fluid reconciliation standpoint, measurements at different site locations were 0.0% for frac tanks 1-3. The calculated flow rate during the 20.1-day collection cycle offshore was 25.5 bbl/day or 1071.0 gallon/ day. Since installation of the RRS in April 2019, Couvillion Group has collected on average of 25.6 bbl/day or 1075.2 gal/day. As of the end of this pump off campaign 429,542.4 gallons of salvaged crude oil has been safely captured from the MC-20 site.

Oil Tally

					Truck 1			-	Truck 2				Truck 3		-	_	Truck 4					Running
Oil Tally	Date	Total Fluid Transfer by	Total Fluid Frac Tank Strap	96	Total Fluids to Acadiana NRC Frac	Total Fluid at Acadiana	96	Net	Total Fluids to Acadiana NRC Frac	Total Fluid at Acadiana	96	Net	Total Fluids to Acadlana NRC Frac	Total Fluid at Acadiana	96	Net	Total Fluids to Acadiana NRC Frac	Totál Fluid at Acadiana	%	Net	Total Net	Total Net
		Cypress (bbl)	by NRC (bbl)	Diff	Strap (bbl)	by strap (bbl)	Diff	Oil (bbl)	Strap (bbl)	by strap (bbl)	Diff	Oil (bbl)	Strap (bbl)	by strap (bbl)	Diff	Oil (bbl)	Strap (bbl)	by strap (bbl)	Diff	Oil (bbl)	Oil (bbl)	Oil (bbl)
Pump Off #1	4/26/2019 5/6/2019	220.0	215.7	-2.0	113.7	110.0	3.3	108.8	97.0	87.4	9.9	78.6									187.4	187.4
Pump Off #2	5/3/2019 5/8/2019	246.3	223.5	-10.2	101.3	102.0	-0.7	99.7	82.8	83.8	-1.2	81.9	11 - 1			1.1	1				181.6	369.0
Pump Off #3	5/13/2019 5/16/2019	335.0	331.2	-1.1	103.2	89.1	13.7	82.9	126.4	136.4	-7.9	132.1	108.5	99.5	8.3	80.7		12 22			295.7	664.8
Pump Off #4	6/19/2019 6/20/2019 6/21/2019	901.7	905.5	0.4	139.4 137.7 48.5	145.8 136.2 47.1	-4.6 1.1 2.8	143.0 113.0 44.6	138.7 140.7	139.4 141.4	-0.5	137.4	140.6	141.4	-0.6	1.7.5	144.1	141.4	1.9	138.4	850.0	1514.8
Pump Off #5	7/31/2019 8/1/2019 8/2/2019	1200.2	1196.6	-0.3	139.2 139.1 99.8	138.3 145.7 112.9	0.6 -4.7 -13.1	133.7 135.1 111.0	142.7 140.7 101.1	150.0 138.4 105.6	-5.1 1.6 -4.5	146.5 131.9 104.2	146.0	142.0	2.7	81.3	138.0	142.0	-2.9	140.0		2498.5
Pump Off #6	8/26/2019 8/27/2019	848.0	874.6	3.0	141.7 140.5	138.4 138.4	2.3 1.5	134.6 135.5	140.3 137.2	145.7 142.0	-3.8 -3.5	140.6 139.1	141.5 61.3	145.7 65.6	-3.0 -7.0	143.2 64.2					757.2	3255.7
Pump Off #7	9/23/2019 9/24/2019	891.9	880.4	-1.3	138.0 144.4	134.7 142.0	2.4	132.4 139.1	144.3 143.7	151.8 138.4	-5.2 3.7	148.9 135.5	142.6 55.3	142.0 54.6	0.4	139.7 53.7					749.3	4005.0
Pump off #8	10/21/2019 10/22/2019 10/23/2019	790.9	787.4	0.4	143.9 137.7	131.0 141.4	9.0	129.1	154.3 130.0	151.9	1.5	149.7 123.6	144.0	136.2	5.4	1.000		-			1.1310	10051
Residual Tank	10/23/2019		205.1			141.4		3.7.7.12		16.5.7		34.0.0	125.4	125.7	-0.2	123.6					799.4	4804.4
Pump off #9	11/11/2019 11/19/2019 11/20/2019	772.3	757.8	-1.9	142.3 145.6	156.5 145.6	-10.0	153.6 143.6	143.8 92.1	131.0 94.6	8.9 -2.8	128.8 93.3	145.3	142.0	2,3	139.9		14.5			659.1	5463.5
Pump off #10	12/17/2019	940.7	942.8	0.2	142.0 146.4	138.4 138.4	2.5	136.9 136.8	71.4	69.2 145.7	3.1	68.5 144.4	146.4 144.0	145.7 142.0	0.5	144.2 140.8	47.4	47.4	0.0	47.0	818.6	6282.1
Pump off #11	1/9/2020 1/10/2020	697.7	691.0	-1.0	128.7 79.4	131.1 91.0	-1.9 -14.6	128.3 90.0	128.0 92.6	131.1 91.1	-2.4 1.6	129.3 90.0	129.8	131.1	-1.0	129.6			0.0	17.0	010.0	0202.1
Residual Tank	1/8/2020				141.9	142.0	-0.1	140.0		51.1	_1.0				+		+		+	<u> </u>	707.2	6989.3
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	115.8 154	102.1 114.2	101.9 101.92	0.2 11	100.4 61.1	99.0	101.9	-2.9	97.5						
Residual Tank	2/17/2020	t			108.2	105.6	2.4	101.3			- = = .				+		t		†	}	630.1	7619.4
Pump off #13	3/11/2020 3/12/2020 3/13/2020	583.7	570.2	-2.4	114.5 93.6	115.2 94.3	-0.6	112.7 91.9	138.3 120.0	136.2 120.4	1.5 -0.3	134.3 117.5									456.4	8075.8
Pumpoff #14	4/16/2020 4/17/2020	966.7	928.8	-4.1	147.2 144.9	146.5 146.5	-0.7 0.5 -1.1	91.9 144.6 144.3	145.2 144.1	141.2 141.2	2.8 2.0	139.4 139.1	148.0 87.4	146.5 88.9	1.0 -1.7	143.7 87.3					798.4	3073.0
Residual Tank	4/14/2020				149.9	151.9	-1.3	132.3							F				t		132.3	9006.5
Pump off #15	5/7/2020 5/8/2020	798.4	783.1	-1.9	150.3 147.2	145.8 149.4	3.0 -1.5	143.4 147.6	148.0 131.7	153.1 131.2	-3.4 0.4	149.4 128.6	145.2	142.1	2.1	138.7					707.7	9714.2
Pump off #16	5/28/2020 5/29/2020	598.8	583.3	-2.7	142.1 138.0	140.3 138.5	1.3 -0.4	137.5 134.1	135.1	134.8	0.2	131.7	115.0	116.6	-1.4	109.7					513.0	10227.2

Total Fluid Reconciliation

				Truck 1	Truck 2	Truck 3	Truck 4	1		
		Total Fluid	Water Decanted	Total Fluids	Total Fluids	Total Fluids	Total Fluids	Residual	Total of Fluid	,
		Frac Tank Strap	From Frac Tank	to Acadiana	to Acadiana	to Acadiana	to Acadiana	left in	From Trucks,	
		at Venice	Using Strap	NRC	NRC	NRC	NRC	Frac	Residual &	
		by NRC	Measurement	Frac Strap	Frac Strap	Frac Strap	Frac Strap	Tanks	Decant	%
	Date	(bbl)	(bbl)	(bbl)	(bbl)	(bbl)	(bbl)	(bbl)	(bbl)	Diff
Pump Off #1	4/26/2019	215.7	0.0							
	5/6/2019			113.7	97.0	0.0	0.0	5.2	215.9	0.1
Pump Off #2	5/3/2019	223.5	15.6							
	5/8/2019			101.3	82.8	0.0	0.0	17.6	217.3	-2.8
Pump Off #3	5/13/2019	331.2	0.0							
	5/16/2019			103.2	126.4	108.5	0.0	16.2	354.3	-1.6
Pump Off #4	6/19/2019	905.5	32.5	139.4	138.7	0.0	0.0		310.6	
	6/20/2019			137.7	140.7	140.6	144.1		563.1	
	6/21/2019			48.5	0.0	0.0	0.0	0.6	49.1	1.0
Duran Off #F	PO4: Total	1105.5	06.3	120.2	142.7			┟────┤	922.8	-1.8
Pump Off #5	7/31/2019 8/1/2019	1196.6	96.3	139.2 139.1	142.7 140.7	146.0	138.0		281.9 563.8	
	8/2/2019			99.8	140.7	140.0	156.0	45.2	246.0	-0.7
	PO5: Total			55.0	101.0			43.2	1188.0	-0.7
Pump Off #6	8/26/2019	874.6	56.8	141.7	140.3	141.5			480.3	
	8/27/2019		*	140.5	137.2	61.3		57.9	396.9	
	PO6: Total							*	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	
	P07: Total							*	864.9	-1.8
Pump Off #8	10/21/2019	787.4	27.2						27.2	
	10/22/2019			143.9	154.3	144.0			442.2	
	10/23/2019			137.7	130.0			L/	267.7	
Residual Tank	10/23/2019	205.1	53.5			125.4		66.4	245.3	
	PO8: Total							ļļ	982.4	-1.0
Pump Off #9	11/19/2019	757.0	32.0	142.3	143.8	145.3		FF 6	463.4	
	11/20/2019 PO9: Total	757.8		145.6	92.1			55.6	293.3	-0.1
Pump Off #10	12/17/2019	942.8	33.4	142.0	71.4	146.4			756.7 393.2	-0.1
Pump On #10	12/17/2019	542.0	55.4	142.0	144.3	140.4	47.4	73.9	556.0	
	PO10: Total			140.4	144.5	144.0	-7	75.5	949.2	0.7
Pump Off #11	1/9/2020	691.0	39.2	128.7	128.0	129.8		72.7	498.4	0.7
	1/10/2020			79.4	92.6				172.0	
Residual Tank	1/8/2020	307.0	81.5	141.9				121.7	345.1	+
	PO11: Total								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		3.9	149.5	114.2			87.5 *	355.1	
Residual tank	PO12: Total 2/17/2020	265.8	93.6	108.2					728.8	0.9
Residual talik	2/17/2020 2/18/2020	203.8	23.5	108.2				121.7	201.8 145.2	
	Resid Total		23.5					121.7	347	-1.8
Pumpoff #13	3/11/2020	570.2	39.6						39.6	
	3/12/2020		2.8	114.5	138.3				255.6	
	3/13/2020			93.6	120.0			63.7	277.3	
	PO13: Total							\downarrow	572.5	0.4
Pumpoff #14	4/15/2020	928.8	55.1						55.1	
	4/16/2020			147.2	145.2	148		65.4	440.4	
	4/17/2020 PO14:Total			144.9	144.1	87.4		65.4	441.8 937.3	0.9
Residual tank	4/13/2020	244.1	67.6			<u> </u>		t	67.6	<u>+</u>
	4/14/2020			149.9				26.6	176.5	
									244.1	0.0
Pumpoff #15	5/6/2020	783.1	18.3	i				i	18.3	i
	5/7/2020		1.2	150.3	148.0	145.2			444.7	
	5/8/2020			147.2	131.7			40.0	318.9	
	PO15: Total							Ļ	781.9	-0.2
Pumpoff #16	5/27/2020	583.3	25.3						25.3	
1 umport n20				142.1	1	1	1	1	142.1	1
r amport #10	5/28/2020				105.4	115.0		27.0		
r amport #10	5/28/2020 5/29/2020 PO16: Total			138.0	135.1	115.0		27.8	415.9 583.3	0.0

Barrels of Oil Collected Daily

					Total	Net	RRS		
					Collection	Oil	Collection Rate	Collectio	on Rate
		Start Time		End Time	Duration	Collected	Of Oil	of	Dil
	Start Date	(hrs)	End Date	(hrs)	(Days)	(bbl)	(bbl/day)	(gallor	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	1,026.5	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

Barrels of Oil Collected Per Day Since RRS Install

					Total	Net	RRS	
					Collection	Oil	Collection Rate	Collection Rate
		Start Time		End Time	Duration	Collected	Of Oil	of Oil
	Start Date	(hrs)	End Date	(hrs)	(Days)	(bbl)	(bbl/day)	(gallon/day)
Average collection to date	4/12/2019	0:00	5/15/2020	18:40	399.8	10227.2	25.6	1075.2 gallons/day

Totals from Pumpoff 1-16

	Bbl	Gal
Net Oil collected	10227.2	429542.4
Total Oily fluids collected in:	11599.5	487179.0

Appendix 1

MC20 Product Removal and Transportation with Completed Documentation





Couvillion Group, LLC

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

Date: 5-19-2020

	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	311.7 5+61	304.6	304.6	
Tank 2	-				
Tank 3	0	287.1 Port	278.7	278.7	
Total	0	598.8	583.3	583.3	-2.7%

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



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

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Date: 5-27-20

Time: 0700

Time Measurements begin after Vessel Offloading in hours: ____

been seen seen seen seen seen seen seen	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)	Today's Interim Tank Strap Measurement	Tank Strap Measurement after Decanting	Oily Water Mixture Volume Column (B-C)
	bbl	bbl	bbl	bbl
Tank I	304,6	304.6	296,5	8.1
Tank 2				
Tank 3	278,7	278.7	261.5	17.2
Total	583,3	5 <i>83</i> , 3	558.0	25,3

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

Couvillion Rep Signed Name:

NRC Rep Sig

Signed Name:

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

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Attachment C: WASTE MANAGEMENT TRACKING FORM

Oily Water Transportation and Net Crude Oil

Start Shipments Date:

Manifest Number	Transporter	Truck Number 6797	Date	Receiving Facility EBR Everyneen	Manifested Volume loaded from Venice Frac Tank into Truck (bbl from Strap) 92, 5	Volume received by Buyer (bbl by Strap)	Net Crude Oil bbls (Acadiana Oil Ticket)
10315	Legacy	VIII	261	Lins sound cut	141.2		
		1					
A THE PARTY OF THE							
· · · · · · · · · · · · · · · · · · ·							
		Total V	olumes Sh	ipped by Gallons/bbls	92.5		

End of Shipments date:

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

Couvillion Rep

NRC Rep

Signed Name;

Signed Name:

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





Couvillion Group, LLC

Attachment D: Decanted Water from Frac Tanks to Disposal Facility

Ð

Date: <u>5-27-20</u>

	Column A	Column B	Column C
			Volume of oily water transferred to Disposal Facility
	Beginning Tank Strap Measurement bbl	Decant and then Tank Strap Measurement bbl	Column B – Colum using Strap Measurement bbl
Tank 1	304.6	296.5	8.
Tank 2			
Tank 3	278.7	261.5	17.2

Residual Volume left in Tanks







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

Date: 5-27-20

Time: 0700

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 I				
	Tank 2				
4	Links		220.8	153.6	67.2
	Total		220.9	153.6	67.2

Tank4



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

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7/8/19





Attachment C: WASTE MANAGEMENT TRACKING FORM

Oily Water Transportation and Net Crude Oil

Start Shipments Date: <u>5-28-2020</u>

Manifest Number	Transporter	Truck Number	Date	Receiving Facility	Manifested Volume loaded from Venice Frac Tank into Truck (bbl from Strap)	Volume received by Buyer (bbl by Strap)	Net Crude Oil bbls (Acadiana Oil Ticket)
	L+B	75702	5-28	AOC	T42.T 66L		
				-			
						-	
		Total V	olumes Sh	ipped by Gallons/bbls	142.1		

End of Shipments date: 5-28-20

Sign-off by:USCG Rep (Optional)

Couvillion Rep

Signed Name:

REDACTED

NRC Rep

Signed Name:

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Couv-MC20-O&M-RPT-DOC-00043





Attachment C: WASTE MANAGEMENT TRACKING FORM Residual Frac Tank Bottoms

Date: 5-28-2020

Residual Volume left in Tanks

	Strap Measurement after Trucks Loaded in each tank bbls
Tank 1	154,4
Tank 2	
Tank 3	261.5



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

7/8/19

Couv-MC20-O&M-RPT-DOC-00043





Couvillion Group, LLC

Attachment C: WASTE MANAGEMENT TRACKING FORM

Oily Water Transportation and Net Crude Oil

Start Shipments Date: 5-29-2020

Manifest Number	Transporter	Truck Number	Date	Receiving Facility	Manifested Volume loaded from Venice Frac Tank into Truck (bbl from Strap)	Volume received by Buyer (bbl by Strap)	Net Crude Oil bbls (Acadiana Oil Ticket)
1	L+B_	76176	5-29	AOC	138.0		
2	<u>L+B</u>	7570	5-29	AOC	13501		
3	L+13		5-29	AOC	115.0		
		Total V	 olumes Sh	ipped by Gallons/bbls	383.1		

End of Shipments date: 5-29-2020

Sign-off by:USCG Rep (Optic	onal) Signed Name:		
Couvillion Rep	Signed Name:		
NRC Rep	Signed Name:		-
Doc #: Couv-O&M-Doc-00004	Page 9 of	12 7/8/19	





Attachment C: WASTE MANAGEMENT TRACKING FORM <u>Residual Frac Tank Bottoms</u>

Date: 5-29-2020

<u>Residual Volume left in Tanks</u>

	Strap Measurement after Trucks Loaded in each tank
	bbls
Tank 1	16.4
Tank 2	
Tank 3	11,4

		REDAGLED		
Sign-off by:USCG Rep (Opti	onal) Signed Name:	-	110	
Couvillion Rep	Signed Name:	REDACTED		
NRC Rep	Signed Name:			
		/		

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

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

Manifest Number	Transporter	Shipment Date	Receiving Facility	Manifested Volume (Yard)	Scaled Weight (Lb)	Comments (Box Numbers, etc.)
		-				
			1			

* NO Solids

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

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

Couv-MC20-O&M-RPT-DOC-00043

Appendix II

NRC Waste Handling Documentation

COUVILLION DECLARATION OF INSPECTION · DOI

n	n	4	n
4	U	L	9

I	DECLARATION OF INSPECTION PRIOR TO BULK CARGO TRANSFER				
Date	:5-19-20 Location: Commillion	Vence LA			
Faci	ity/Vehicle Number:		Start Ti	me En	d Time
			0/40		930
					710
Vess	Vessel Official Number: Vessel Capacity (Total) (bbls):				
Prod	uct Transferred: C(vdt oil	Est. Transfer Vo	lume (bb	ols):	
	Note For Emergency Notification Dis	charge amounts (ga	llons):		
Avera	age most probable:				
	mum most probable:				
	t case discharge:				
1 3	he following list refers to requirements set forth in def	tail in 33 CFR 156.	150 and 4	16 CFR 3	5.35-30.
⊳	The spaces on the left are to be reviewed by ALL PIC's i	nvolved in the trans	fer and ch	necked in a	preement.
					•
	The right hand columns are to be initialed by the appropr	iate PIC and/or note	d as not a	pplicable	with (N/A).
×	Items on the list are provided to indicate that the detailed	requirements have I	neen met		
	TOPIC			PIC Delivering	PIC Receiving
	Verify PIC designation/qualification 33 CFR 154.710, 154.730) 154 740(b)	-	TT	TM
	Person In Charge (PIC): In Immediate Vicinity and Available	, 134.740(0)		N	TM
	Personnel: Capable/Unimpaired			ī)	TM
	Name, title and location of each person participating in the tran	nsfer operation		15	TM
	MC 20 Subsea Storage Offloading Operations & Maintenance				
	procedures and particulars of the transfer and receiving system		verified		
	with key personnel involved in these operations			D.	TM
	Watch and shift arrangements discussed		1	n	m
	Cargo is Authorized for transfer to or from tanks				m
	Discuss if transfer will need to stopped to change tanks - supp	ly or receiving facility	, 1	5	TM
	Discuss transfer rates and max allowable to receiving facility		<u> </u>	5	TM
	(Facility/Vessel) properly vented (monitoring vacuum and pos	itive tanks pressure)		D	m
	Communications & No Language Barrier			15	TM
§ Ho	ses and Connection - 33CFR 154.500				
	Nonmetallic hoses usable for oil or hazardous material service		1	5	TM
	Proper connections (must be one of the following):			2	tin
	Fusion 100 hammer union connections			27	n.
	Quick-disconnect coupling present on suction side of pump			TS	Day.
8	Examine transfer hose markings or records.	ZMAT SEDVICE"	-11		i i i i i i i i i i i i i i i i i i i
8 -	Name of product handled; example "OIL SERVICE," or "HA	LIVIATSERVICE		12	[M
<u>S</u> Ex	amine Transfer Hose condition - 33CFR 156.170	<u> </u>			1
	No unrepaired kinks, bulges, soft spots, loose covers, other de			TS	Tm_
	No cuts, slashes, or gouges that penetrate the first layer of hose	e reinforcement		5	m
8 -	No external/internal deterioration			rs	TM
S En	ergency shutdown - 33CFR 156.170	ho om over en el	1-		
	Test emergency shutdown - 33CFR 154.550 - who controls Communication system continuously operated.	me emergency snutdo		<u>۳</u> ۲۶	TM
	Verify operating properly (Electric, pneumatic, or mechanical	link to facility: electry			1.0-1
	voice)	mik to facility, ciccul		15	TM
i —	Record test info in physical information.			TS	TM
8 F.	amine closure device - 33CFR 154.520				
2 EX	Verify enough to blank off ends of each hose /loading arm not	connected for transfe	r -	77	m
8 I				- <u>·</u>	1 1 4 1
8 1115	pect Small Discharge Containment - 33CFR 154.530 Inspect handling area and verify capacity (not less than 5 gallo	(and	-	TS	rm
	inspect nanoning area and verity capacity (not less than 5 gand	115].			1 1 1 1

COUVILLION DECLARATION OF INSPECTION · DOI 2019

	Pre-Transfer Conference and Agreement (Continued)		
Z	TOPIC	PIC	PIC
S In	spect discharge containment equipment for oil & hazardous liquids - 33CFR 154.545	Delivering	Receiving
5	Verify booming for oil or hazmat transfer (if required by COTP).	75	-
	Verify adequate amount of equipment and/or absorbent material for initial response		Th
	Inspect condition of response equipment stored on facility (if applicable).		Th
	Verify availability of at least 200 feet of containment boom onsite within 1 hour.		Th
	Verify means of deployment.	1	Th
M	eans of Communication - 33 CFR 154.560		TM
	Verify continuous two-way voice communication between vessel and facility PICs.	5)	-
	Communications must meet the following requirements	liJ	ty
	Portable Radio:		
	IF Flammable or Combustible Liquids	TT	m
	1. Marked or documented as intrinsically safe.	TS	IM
	2. Certified as intrinsically safe by national testing labor certification organization.	+- (Dan
	Voice		100
	1. Be audible.	1-1	Dan
	Test communications. SAT UNSAT	TS	m
In	spect lighting systems - 33 CFR 154.570		
	Verify portable lighting for operations between sunrise and sunset (<i>if applicable</i>).	TS	
-	At transfer operations work areas for facility and vessel	+(m
-	At transfer connection points for facility and vessel	T	- m
	Verify sufficient number or fire extinguishers.	TĴ	Th
-	Verify protective equipment is ready to operate.		
-	Verify warning signs are adequate.		The The
-			100
	§ VESSEL ONLY - 155.730 Compliance with VESSEL TRANSFER PRO	CEDURES 8	
-	PIC for vessel/operator is required by §155.720 to have current transfer procedures		
	Require vessel personnel to use the transfer procedures for each transfer operation		
-	Available for inspection by the COTP or OCMI whenever the vessel is in operation		
	Legibly printed language(s) understood by personnel engaged in transfer operation	.*	
	Permanently posted or available and used by members of crew engaged in transfer operation	tion	
_	Appropriate tank level monitoring (visual, gauging, indicators, etc.)		
_	Arrangements to monitor draft marks during transfer		
	Transfer Piping Line diagram, location of each valve, pump, control device, vent, and ov		
	Shutoff valve location or isolation device separating bilge or ballast from the transfer sys	tem	1
	Adequate containment on the vessel at loading or discharge connection		
	Drains, Scuppers and overboard discharges closed		
	The number of persons required to be on duty during transfer operations;		
	Procedures for emptying discharge containment system required by §§155.310 and 155.3		
	Procedures for tending the vessel's moorings during the transfer of oil or hazardous mate		
	Procedures for emergency shutdown/communications required by §§155.780 and 155.78	5	
	Procedures for topping off tanks		1
_	Procedures ensuring all valves used during transfer are closed upon completion of transfe	er	
DACTE	I do certify that I have personally inspected this facility or vessel with reference aforementioned and that I have indicated that the regulations have been comple		
		5-19-20	
REDACT	TITLE	DATE	TIME
AUTE	PIC RECEIVING - NAME TITLE	5-19-20 DATE	TIME
_	EDR2 DI	5.18.0-	
		5-19-20	0930
	AMOUNT (GALLONS)	DATE	TIME

⁽FORM UPDATED April 15 2019)

DECLARATION OF INSPECTION

BINDON & NAME OF FACILITY	5-19-20
NAME OF 7ESSEL	DATE TRANSFER OPERATIONS STARTS

An oil transfer operation may not commence to or from a vessel unless the following requirements are met and agreed upon by the respective transferring and receiving persons in charge.

Persons in charge indicate by a check ($\sqrt{}$), in the appropriate spaces, that the specific requirement has been met.

VESS	SEL A. The mooring lings are adequate for all anticipated conditions	FACILITY
11	B. Cargo hoses and/or loading arms are long enough for intended use.	The
TS	C. Cargo hoses are adequately supported to prevent undue strain on the couplings	Tin
7	be performed each time a valve is repositioned.)	TM
17	E. Each flange connection on the cargo system not being used during the transfer operation is blanked	
-10	or shut off.	··· <u>Tm</u>
<u>)</u>	F. The cargo hoses and/or loading arms are connected to the manifolds using gaskets and a bolt in every other hole, (minimum of 4 bolts). Exception: Tanks without fixed loading systems per waiver	
	from the Captain of the Port.	Thy
75	G. The overboard or sea suction values are sealed or lashed in the closed position.	Th
75	H. Adequate spill containments have been provided for couplings.	
F	_ I. All scuppers or other overboard drains are closed or plugged	
-H	_ K. Emergency shutdown system is available and operable.	The The
TC	L. Communication procedures are established and understood between persons in charge.	Th
T	M. Qualified and designated personnel are in charge and on duty at the terminal and vessel control station	
	N. One person at the vessel control station is present who fluently speaks the language of the terminal con	
TI	O. The owner of the cargo hoses will insure test requirements have been met and that the hose has no loos	···· <u>··</u>
1,	covers, kinks, bulges, soft spots or gouges, cuts and slashes which penetrate the hose reinforcement and	
- 1	that hoses are marked for identification and test data is maintained in a test log.	
75	P. Adequate lighting of the vessel and terminal work areas and manifold areas is provided.	
-5	Q. Persons in charge have held a conference to assure the mutual understanding of the following transfer of1. Product identity to be transferred.	
75	2. Sequence of transfer operation.	
the		TM
TS	4. Name or title and location of each person participating in the transfer operation	
15	5. Particulars of the transferring and receiving systems	
#	6. Starting, stripping, topping and shutdown have been discussed and understood	
tr		
TS	9. Notification before leaving stations	

The following items are to be filled out by Vessel personnel only.

I certify that I have read, understand and agree with the foregoing as marked and agree to begin/continue the transfer operation.

	RED/IOT			
	Signature			Signature REDAGIED
PERSON IN CHARGE OF	Title THAN		PERSON IN CHARGE OF	Title Torkcament
VESSEL	Time Oly 10	Date 5-19-20	FACILITY	Time 0640 Date 5-19-20

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

Convillion Venice, LA

NRC	SAFETY MANAGEMENT SYSTEM	SAFETY HISTORY WAY TO GOT
Form 8.1.7	Site Specific Safety Plan	Revision: 08/2019
	Project Name: MC20 Recovered Crude Oil Transfer	

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				
NRC HSEQ Manager Peter Brause, CSP (310) 387-2639				
NRC HSEQ Director Ken Koppler, CIH, CSP (971) 285-0450				
Hospital / Medical Intervention Plaquemines Medical Center - Port Sulfur, La (504) 564-3344				

Date: $5 - 19 - 2020$ Start Time: <u>0600</u> Job Number: <u>19 - 0192</u>	5
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□ Land Emergency Response □ Marine Emergency Response □ Land Service ⊠ Marine Service

SITE DESCRIPTION / WORK SUMMARY

The site is the Couvillion Dockside Facility located at 433 McDermott Rd., Venice, La.

NRC will facilitate removing recovered crude oil from the well located at MC20 project. The M/V $\beta \delta$ has been collecting crude oil from the location and storing it on Marine Portable Tanks (MPTs) located on her deck. The vessel will be moored to the dock at the above location and transfer the recovered crude from the MPTs on her deck to double walled frac tanks on the dockside.

Once the frac tanks on the Couvillion docks are ready for transfer the crude will then be transferred into bulk transporter trailers to be sent to its final destination.

SCOPE OF WORK

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

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

EQUIPMENT

1





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.
7. Energizing pneumatic equipment	 Personnel injured when struck by hoses or pressure during hose connection or fitting failure. Air leaks or blowout causing pressure related injuries. Hearing loss/injury due to noise levels above 85 decibels 	 All pressurized hoses will have whip checks and safety dips 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 high-noise 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 Hydrogen Sulfide (H2S) Detected during transfer. 	 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. PE 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. 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 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 use a windsock, or other wind direction monitor, located on the dockside location to determine the upwind safe area and will keep personal monitors active to monitor H2S in the area.





Job Hazard Analysis

Potential Hazards	Preventive Measures / Special PPE
 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 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 invition.
 Inadequate hydration Extended work periods without rest resulting in heat stress 	 ignition. Personnel will be encouraged to hydrate frequently. Water to sports drink ratio will be 3:1 (1 sports drink to 3 waters consumed). Work to rest schedules will be determined based on the ambient temperature, acclimatization of personnel and work being performed. Heat stress potential and signs/symptoms will be discussed at all safety meetings, tailgate meetings and during breaks. Personnel will be encouraged to self-report any early symptoms of heat stress. All personnel will be advised that stop work authority applies to potential heat stress symptoms they may be experiencing, (or that they suspect with coworkers).
 Potential for ingestion of petroleum product or other contaminants. Fire hazards from unrestricted smoking Direct sun reduces recovery time for workers during breaks Inadequate water Potential for secondary contamination by absorption, injustion 	 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. Follow decontamination plan for clothing removal and disposal when protective outerwear is required and becomes contaminated.
 Personnel infected with COVID-19 could spread it to others in the work area. 	 Only use safety scissors (never knives) to cut Tyvek from personnel. Ensure that workers wash hands and face thoroughly. 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 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)
	 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 Inadequate hydration Extended work periods without rest resulting in heat stress 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 Potential for secondary contamination by absorption, injection, or ingestion





Job Hazard Analysis

Job Steps	Potential Hazards	Preventive Measures / Special PPE
		 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.

Development Team Position/Title Reviewed By Position/Title Date Peter Brause, CSP HSEQ Manager 8/14/2019

Employee Name	Signature	Date
ED		

NR	SAFETY MANAGE	MENT SYSTEM	SAFETY
Form 8.1	.7 Site Specific S Project Name: MC20 Recovere		Revision: 08/201
	SAFETY PI	AN APPROVAL	
Site Safe	ety Officer		5-19-2020
	ACKNOWLEDGMENTS (signed I have read and understand the topics outlined on all part I am aware that I am to sign in at the beginning of the shift I must notify the on site supervisor of any injury / ac I understand that I have the right to stand down for Safe After an injury/accident/near miss is reported, the Site Super	ages of this HASP and will follow all the requ and sign out at the end of my shift on the Da cident/ near miss that I had or observed du ity and report any potential hazards to the Ni	Ired safety rules. Ily Safety Meeting form. Ing my shift**
Date	Print Name	Signatur	e
		1 4	





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

- Air Compressor (One aboard the M/V _

_ – One on Couvillion 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 Couvillion 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)

BB

Supplied Air Breathing System

ATTACHMENTS

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

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Site Specific Safety Plan Project Name: <u>MC20 Recovered Crude Oil Transfer</u>



CHEMICAL INFORMATION

CHEMICAL / CAS	CHEMICAL PROPERTIES	EXPOSURE LIMITS Action Levels	RO	UTES 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 X X	Inhalation Ingestion 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 X X X	Inhalation Ingestion Absorption Contact	Irritation to the eyes, skin, nose and respiratory system. Dizziness, headache, nausea, staggered gait; bone marrow depressive.

PERSONAL PROTECTIVE EQUIPMENT





Site Specific Safety Plan
Project Name: <u>MC20 Recovered Crude Oil Transfer</u>

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 workin 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

4

The NRC SMS Procedure 13.2 for Respiratory Protection is provided in Attachment_C_-



Site Specific Safety Plan Project Name: <u>MC20 Recovered Crude Oil Transfer</u>



AIR MONITORING / ACTION LEVELS

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



Site Specific Safety Plan Project Name: <u>MC20 Recovered Crude Oil Transfer</u>



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 position by crew member. Discuss all reported near misses during the
Mooring M/V	Struck by Pinched by Fall into water	 post job briefing and during Daily HASP / Tailgate meetings. 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 as well as polly 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 be stopped 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





Site Specific Safety Plan
Project Name: <u>MC20 Recovered Crude Oil Transfer</u>

ITEM	HAZARD	PREVENTION
Transfer of oil into transporter	Spill / spray crude oil on	 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. All hose connections shall be secured with safety clips, then wrapped
	employee. Overfilling of frac tank Overcome by vapors	 in sorbent pads and duct tape as well as polly 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 be stopped 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





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

NRC INCIDENT • First Aid • NRC return to work guidance issued by corporate. NRC INCIDENT • First Aid • NRC enclose and subcontractors are required to immediately report the incident to the safety professional, HSEQ Manager. NRC INCIDENT • First Aid • NRC employees and subcontractors are required to immediately proof injury; if needed incidents will be taken individually, or employees will set themediate supervisor. NRC INCIDENT • First Aid • NRC employees and subcontractors are required to immediately report the incident to the site safety professional, HSEQ Manager, and Project Manager. NRC INCIDENT • First Aid • NRC employees and subcontractors are required to immediately report all incidents to their supervisor. • The supervisor will complete a root cause analysis of all reported form, if an injury then the first report of injury; if needed incidents and submit to the HSEQ manager will be completed. • The supervisor will complete a root cause analysis of all reported for use as a spossible the affected employee will complete the required form, if an injury then the first report of injury; if needed and what report is needed. • • • • • • • • • • • • • • • • • • •	ITEM	HAZARD	PREVENTION			
REPORTING • OSHA recordable immediately report all incidents to their supervisor. POLICY • Near Miss • 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. • • • • • •		First Aid	 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 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. 			
	REPORTING	 OSHA recordable Illness/Injury Near Miss Equipment/Vehicle 				
			•			



MINIMUM SAFETY EQUIPMENT REQUIRED

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

TRAINING / DOCUMENTATION REQUIREMENTS

√	HAZWOPER 40	√	Hazwoper Supervisor	1	Current 8 Hour Refresher
\checkmark	First Aid /CPR		Confined Space Supervisor	1	Current Medical Fitness For Duty
	NRC Confined Space Entrant				NRC Confined Space Rescue
\checkmark	API Safe Rigging Practices			 ✓ 	Documentation of compliance with Drug Free
					Work Place
	Competent Fire Watch Designated Personnel				Qualified Pressure Washer Operator



Site Specific Safety Plan Project Name: <u>MC20 Recovered Crude Oil Transfer</u>



DECONTAMINATION AND DISPOSAL

DECONTAMINATION EQUIPMENT						
 Visqueen 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 	 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 					
Wipe rags to clean respirators						
	PERSONNEL DECONTAMINATION PLAN					
 Establish two stage contamination reduction zone with small decon area just inside of containment area Provide wet rags (not saturated) to personnel to wipe exterior of PPE prior to dry decon (stage 1 decon) Place empty lined drums for contaminated PPE with liners removed to waste bin at end of each shift Untape gloves and boots – discard tape Sit on chair prior to removing boots or outer PPE Remove boots and outer gloves (boots will be reused and leather outer gloves may be reuse if still in good condition) Unzip suit / pull off hood Roll down suit / inside out and place into labeled container 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 bulked into the applicable waste bin or container Store respirators in individual plastic bags with employee names 						
	GEMENT PLAN					
Contaminated disposable PPE & debris from operation sh	all be placed in an approved container					



Site Specific Safety Plan Project Name: <u>MC20 Recovered Crude Oil Transfer</u>



SITE LAYOUT

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

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

See Facility Map


SAFETY MANAGEMENT SYSTEM

Site Specific Safety Plan Project Name: <u>MC20 Recovered Crude Oil Transfer</u>



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

EMERGENCY RESPONSE PLAN

ELEMENT	LOCATION, SPECIFICATION OR REASON FOR USE		
NEAREST HOSPITAL	Plaquemines Medical Center		
	27136 Highway 23		
	Port Sulfur, La		
	(504)564-3344		
NEAREST PHONE	Couvillion Facility Phone		
FIRST AID KIT	Deck of M/V Chloe Candies / Dock side as well		
FIRE EXTINGUISHER	Deck of the vessel		
	Couvillion Dock		
EYEWASH STATION	Stage Portable Eyewash Station in Support Zone		
EVACUATION ROUTE /	See site map and follow established emergency procedure		
MEETING POINT			

NRC	SAFETY MANAGEMENT SYSTEM	SAFETY TTS THE WAY TO GOT
Form 8.1.7	Site Specific Safety Plan	Revision: 08/2019
	Project Name: MC20 Recovered Crude Oil Transfer	

Hospital Route



Ô	Start out going northwest on McDermott Rd toward Tidewater Rd.
	Then 0.50 miles
P	Turn right onto Tidewater Rd.
	Then 0.67 miles
5	Turn slight left onto Jump Basin Rd.
•	Jump Basin Rd is just past Chevron Rd
	Then 0.16 miles
4	Take the 2nd left onto Highway 23/LA-23.
	Highway 23 is just past Spanish Pass Rd
	If you reach Offshore Shipyard Rd you've gone a little too far
	Then 30.67 miles
Ş	Plaquemines Medical Center, 27136 Highway 23, Port Sulphur, LA, 27136 HIGHWAY 23.

			T.S.A.M
TRU	SAFETY MANAG	EMENT SYSTEM	SAFETY IT'S THE WAY TO GOT
Form 8.1	.7 Site Specific Project Name: MC20 Recover		Revision: 08/2019
Site Safe	ty Officer	PLAN APPROVAL Date 5	- 19 - 2028
	ACKNOWLEDGMENTS (sign I have read and understand the topics outlined on all a maware that I am to sign in at the beginning of the shi I must notify the on site supervisor of any injury / I understand that I have the right to stand down for Sa ther an injury/accident/near miss is reported, the Site Sup	ift and sign out at the end of my shift on the Daily accident/ near miss that I had or observed durin ifety and report any potential hazards to the NRC	d safety rules. Safety Meeting form. g my shift**
Date	Print Name	Signature	
/ 19/20 7/19/20 -19-20 -19-20	REDACTED		
	10		
_			



Revision: 08/2015

TASK DESCRIPTION: MC 20 Recovered Crude Oil / Vessel to Shore Transfer5 - 27 - 2020						
SUMMARY OF POTENTIAL HAZARDS (Check applicable)						
Heavy or awkward lifting /			Pinch Points or caught between		Working and walking surfaces; slip, trip, fall	
New / Inexpe	erienced employe	es	Spill / containment		🛛 Heat stress enviro	nment
Struck by or	crush hazard		Noise levels (>85 dBA)			
🛛 Hazardous li	quids, vapors, was	ste	Elevated surfaces / Fall / Ladd	lers		
			APPLICABLE REGULATION	N / SOPS / AL	ERTS	
SMS 19.2 Va	cuum Trucks					
The supervised in		M	NIMUM PERSONAL PROTECTIVE E	QUIPMENT (Check applicable)	
Level A Level B Level C	Hard Hat Safety Glasse		 ☐ High Visibility Vest ☑ Long Sleeves / Coveralls ☐ Chemical protective clothing 	Dispos	r Steel Toe Boots able boot covers ene Steel Toe Boots	PFD / Work vest
🛛 Level D	Hearing Prote	ection	Respirator:	Gloves		
	Steps		JOB HAZARD A Potential Hazards	NALYSIS	Proventive Measurement	
 Pre-job Behavi 2. Site Su 	Neetings or Based Safety rvey and hent Set-up	or or Pe ha Pe illi	ersonnel do not understand the berational plan, relevant hazards their roles/responsibilities ersonnel do not stop work when azards are identified ersonnel do not report injuries, nesses, near misses or incidents neven working surfaces and trip azards.	rds to all involved personnel in Safety/Ops meeting will be encouraged to ask questions if they are any project details Immediate supervisor will remind their crews of t Authority and Responsibility to Stop work and c supervisor if they discover a hazard Personnel will be instructed to report any injuries near misses or incidents rip Inspect site for correctable walking surface haze		rds and controls will be explained in Safety/Ops meeting. Personnel c questions if they are unsure of remind their crews of their lity to Stop work and contact their r a hazard d to report any injuries, illnesses, e walking surface hazards. Flag or s. Position equipment and hoses
• Eq or • Im		Equipment not certified, not tested or damaged Improper set-up due to untrained or unqualified personnel		 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 		
str ve • Ve mi • Ur		 ersonnel, equipment or hoses Ground guides will be used for equipment Non-essential personnel will clear the path will be confirmed as clear prior Vehicles not inspected prior to novements. Unsafe for travel. nsecured items create dropped Vehicles will be inspected to ensure the loose items and that loads are secured 		will clear the travel path. Travel s clear prior to movements. by drivers prior to travel and damage. to ensure that there are no ds are secured properly.		
workin	ng Vessel and g near water	ca • Pe du • Pe ov	ersonnel struck by thrown lines or nught in "line of fire". ersonnel pinched or crushed uring vessel movements. ersonnel fall into the water. Man verboard.	t • W • N • N • N • N • Id	to fall on the ground and catch mooring lines from then mooring the vessel, other body parts from be bits on the dock ever work alone. All perso are required to wear a US man overboard" procedu and recovery plan in place lentify, communicate and	keep hands, fingers, arms, and all tween the mooring line and the onnel within 5' of the docks edge SCG approved PFD. Always discuss ures prior to work. Have life ring e.
		● Pe of di	hile connecting transfer hoses. ersonnel suffer back strain or ther ergonomic related injuries uring connections or moving oses ip/trip/fall hazards while working	i • T i i	ncluding cam-lock conne parts or equipment ransfer hoses can be hea hoses employees shall us ncluding keeping your ba as lifting with your knees	ctions, vehicles and other moving avy and when handling these se proper ergonomic practices ack as straight as possible as well





Job Steps	Potential Hazards	Preventive Measures / Special PPE
		awareness when walking in the dock area. Try to run hoses in an area that is out of the normal walking path and go around if possible
 Working in potentially hazardous atmospheres 	 Personnel exposed to hazards related to hazardous atmospheres. Ignition sources create potential for explosive conditions Personnel not equipped to suppress incipient fire 	 Calibrated multi-gas meters/detectors will be used to confirm that LEL's, CO and other gases are within safe range for pumping and transfer operations. Operations will transfer operations will stop immediately if LEL's or Carbon Monoxide levels become elevated A protective distance of 100' outside shoreside transfer will be identified, and marked with caution tape and warning signs, to prohibit smoking, sparks and any potential source of ignition within the transfer area perimeter. The M/V will suspend all similar activities for the duration of transfer operations. Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.
7. Energizing pneumatic equipment	 Personnel injured when struck by hoses or pressure during hose connection or fitting failure. Air leaks or blowout causing pressure related injuries. Hearing loss/injury due to noise levels above 85 decibels 	 All pressurized hoses will have whip checks and safety dips 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 high-noise machinery and equipment is being operated.
 Transfer of recovered crude oii 	 Personnel contacted by crude oil spray or environmental release. Overfilling tank resulting in spills Personnel overcome by potentially hazardous vapors Hydrogen Sulfide (H2S) Detected during transfer. 	 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. 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 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. The NRC crew will use a windsock, or other wind direction monitor, located on the dockside location to determine the upwind safe area and will





Job Steps	Potential Hazards	Preventive Measures / Special PPE
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 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.
10. 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 12. Decontaminate Personnel	 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 Potential for secondary contamination by absorption, injection, or ingestion 	 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. 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.
13. COVID 19 Protocol	Personnel infected with COVID-19 could spread it to others in the work area.	 Ensure that workers wash hands and face thoroughly. 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 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





Job Steps	Potential Hazards	Preventive Measures / Special PPE
		 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.

REVIEW

Development Team	Position/Title	Reviewed By	Position/Title	Date
Peter Brause, CSP	HSEQ Manager			8/14/2019,
	REDAC	(ED	MA way -	5/27/200

(NOW	GEM	
	ULIV	

Employee Name	Signature	Date
EDACTED		5-27-202
		5.2230
		5-27-20
		5-27-2020



SAFETY MANAGEMENT SYSTEM

Job Hazard Analysis

Revision: 08/2015

TASK DESC	RIPTION: MC 2	20 Rec	overed Crude Oil / Vessel	to Shore	Transfer d	5/28/2020	
		2	SUMMARY OF POTENTIAL HAZA	RDS (Check			
Heavy or aw movement	vkward lifting /		Pinch Points or caught betwee	en	Working and walki	ing surfaces; slip, trip, fall	
New / Inexp	erienced employe	es	Spill / containment		Heat stress enviro	environment	
Struck by or	crush hazard		Noise levels (>85 dBA)				
Hazardous	iquids, vapors, was	ite	Elevated surfaces / Fall / Ladd	ers			
			APPLICABLE REGULATION	I / SOPS / AL	ERTS		
SMS 19.2 Va	acuum Trucks						
		M	NIMUM PERSONAL PROTECTIVE EC	QUIPMENT (Check applicable)		
Level A Level B Level C Kevel D	Hard Hat Safety Glasse		 ☐ High Visibility Vest ➢ Long Sleeves / Coveralls ☐ Chemical protective clothing ☐ Respirator: 	Dispos	er Steel Toe Boots sable boot covers ene Steel Toe Boots	PFD / Work vest	
		ection	JOB HAZARD A				
lol 🌒	b Steps		Potential Hazards	17AL 1 313	Preventive Meas	sures / Special PPE	
1. Pre-jo Behav	1. Pre-job Meetings Behavior Based Safety O P h h • P		ersonnel do not understand the operational plan, relevant hazards r their roles/responsibilities ersonnel do not stop work when azards are identified ersonnel do not report injuries, nesses, near misses or incidents	• Ir	he operational plan, haza to all involved personnel will be encouraged to asl any project details mmediate supervisor will Authority and Responsibi supervisor if they discove ersonnel will be instructed near misses or incidents	ards and controls will be explained in Safety/Ops meeting. Personnel k questions if they are unsure of remind their crews of their lity to Stop work and contact their er a hazard d to report any injuries, illnesses,	
Equipment Set-up hazards. • Equipment or damage • Improper s		uipment not certified, not tested	• A • P	correct unsafe condition away from travel paths. Il equipment will be insp testing and serviceable v	le walking surface hazards. Flag or ns. Position equipment and hoses Identify "no-go" areas. Dected for current certifications, working condition prior to work ected to perform tasks based on		
s v • V n • U		st ve • Ve m • U	ersonnel, equipment or hoses ruck or crushed by moving ehicles or equipment ehicles not inspected prior to lovements. Unsafe for travel. nsecured items create dropped bject or road hazards.	• V	Non-essential personnel path will be confirmed a 'ehicles will be inspected after travel for potential 'ehicles will be inspected	ed for equipment movements. I will clear the travel path. Travel as clear prior to movements. I by drivers prior to travel and I damage. I to ensure that there are no ids are secured properly.	
	ing Vessel and ng 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 a to fall on the ground and pick them up. Do catch mooring lines from the M/V. When mooring the vessel, keep hands, finger other body parts from between the mooring bits on the dock Never work alone. All personnel within 5' of th are required to wear a USCG approved PFD. "man overboard" procedures prior to work. I and recovery plan in place. 		pick them up. Do not attempt to the M/V. keep hands, fingers, arms, and all tween the mooring line and the connel within 5' of the docks edge SCG approved PFD. Always discuss ures prior to work. Have life ring ce.			
5. Conne	ecting hoses	• P o d h	ersonnel crushed or pinched while connecting transfer hoses. ersonnel suffer back strain or ther ergonomic related injuries uring connections or moving oses lip/trip/fall hazards while working	•	including cam-lock conne parts or equipment Transfer hoses can be he hoses employees shall us including keeping your b as 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 s and not your back ng and maintain situational	





Job Steps	Potential Hazards	Preventive Measures / Special PPE
		awareness when walking in the dock area. Try to run hoses in an area that is out of the normal walking path and go around if possible
 Working in potentially hazardous atmospheres 	 Personnel exposed to hazards related to hazardous atmospheres. Ignition sources create potential for explosive conditions Personnel not equipped to suppress incipient fire 	 Calibrated multi-gas meters/detectors will be used to confirm that LEL's, CO and other gases are within safe range for pumping and transfer operations. Operations will transfer operations will stop immediately if LEL's or Carbon Monoxide levels become elevated A protective distance of 100' outside shoreside transfer will be identified, and marked with caution tape and warning signs, to prohibit smoking, sparks and any potential source of ignition within the transfer area perimeter. The M/V will suspend all similar activities for the duration of transfer operations. Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.
7. Energizing pneumatic equipment	 Personnel injured when struck by hoses or pressure during hose connection or fitting failure. Air leaks or blowout causing pressure related injuries. Hearing loss/injury due to noise levels above 85 decibels 	 All pressurized hoses will have whip checks and safety dips 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 high-noise machinery and equipment is being operated.
 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 Hydrogen Sulfide (H2S) Detected during transfer. 	 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. 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 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 use a windsock, or other wind direction monitor, located on the dockside location to determine the upwind safe area and will keep personal works active to monitor H2S in the area.



SAFETY MANAGEMENT SYSTEM

Job Hazard Analysis



Job Steps	Potential Hazards	Preventive Measures / Special PPE
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 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.
10. 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).
 Break time Decontaminate Personnel 	 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 Potential for secondary contamination by absorption, injection, or ingestion 	 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. 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.
13. COVID 19 Protocol	Personnel infected with COVID-19 could spread it to others in the work area.	 Ensure that workers wash hands and face thoroughly. 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 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





Potential Hazards	Preventive Measures / Special PPE
	 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.
 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 & 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
	 First Aid OSHA recordable Illness/Injury Near Miss

REVIEW

Development Team	Position/Title	Reviewed By	Position/Title	Date
Peter Brause, CSP	HSEQ Manager	REDACTED		8/14/2019
		REDACTED	Marrise	5/28/20
		ACKNOWLEDGEMENT	0	

Employee Name Signature Date			
Control Contro	Signature		
		05/28/20	
		5-78-20	
		5-28-20	
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		5-28-20	



Revision: 08/2015

TASK DESCRIPTION: MC 20 Recovered Crude Oil / Vessel to Shore Transfer S 22					
SUMMARY OF POTENTIAL HAZARDS (Check applicable)					
Heavy or awkward lifting / movement	en 🛛 Working and walking surfaces; slip, trip, fall				
New / Inexperienced employe	ees Spill / containment	Heat stress environment			
Struck by or crush hazard	Noise levels (>85 dBA)				
🛛 Hazardous liquids, vapors, wa	ste 🛛 Elevated surfaces / Fall / Lado	ders			
	APPLICABLE REGULATION	N / SOPS / ALERTS			
SMS 19.2 Vacuum Trucks					
	MINIMUM PERSONAL PROTECTIVE E	QUIPMENT (Check applicable)			
□ Level A ☑ Hard Hat □ Level B ☑ Safety Glasse □ Level C □ Face Shield ☑ Level D ☑ Hearing Prot	Chemical protective clothing	Leather Steel Toe Boots PFD / Work vest Disposable boot covers			
Job Steps	Potential Hazards	Preventive Measures / Special PPE			
 Pre-job Meetings 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, hazards 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. 			
 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 			





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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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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.
13. 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 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





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	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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		REVIEW		The second se
Development Team	Position/Title	Reviewed By	Position/Title	Date
Peter Brause, CSP	HSEQ Manager			8/14/2019
			pn	\$ 129/2020

	ACKNOWLEDGE	MENT	
ployee Name	1 2	Signature	Date
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	ployee Name		ACKNOWLEDGEMENT Signature

NOTICE: Shippers of hazardou	LADING – SHORT FO s materials must enter 24-hour e	emergency	Date 5	28-20	3.LU	Bill of La	ding No	3032	45
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Transportation Regulations governing the an optional method for identifying hazard Code of Federal Regulations. Also when a	nate Hazardous Materials as defined in the transportation of hazardous materials. The lous materials on Bills of Lading per 172.20 shipping hazardous materials, the shipper's o Federal Regulations, as indicated on the Bill	use of this column is 1(a)(1) (iii) of Title 49 ertification statement	pany interpretatio 172, Subpart C-S tions 172.201 (F	n of requiremen hipping Papers. Jazardous Mate name, hazardou	nts as described in a Such description c erial Table) and Sec	responsibility of individ 19 Code of Federal Re onsists of the following tions 172.202 and 1 cation number packin	per Sec- 72.203:	or damage may be ap	ty limitation for loss in this shipment oplicable. See 49 es Code, Sections)(A) and (B).
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state spec The agree by the ship	cifically in w ed or declar	te is dependent on value, shippers are writing the agreed or declared value of th red value of the property is hereby specif not exceeding	e property.	recourse on the c	consignor, the co	nsignor shall	sign the follow	delivered to the cons ng statement. payment of freight		ther Check	EIGHT CHARGES Appropriate Box: reight prepaid
\$		per	_	-		(Signatu	re of Consignor)				Collect
RECE and conditio or corporati destination. erty, that ev the date he the terms a shipper and	EIVED, subju- on of conte- ion in poss It is mutu- very service- reof, if this and conditional accepted for	ect to the classifications and lawfully filed nts of packages unknown), marked, cons ession of the property under the contrac ually agreed as to each carrier of all or a to be performed hereunder shall be su is a rail or a rail-water shipment or [2 ons of the said bill of lading, set forth in or himself and his assigns.	tariffs in effi igned, and d t) agrees to any of, said p bject to all th) in the appli the classific	ect on the date of 1 estined as indicated carry to its usual p property over all or he terms and condit cable motor carrier ation or tariff which	the issue of this d above which sa d above which sa d any portion of s tions of the Unifi- classification or governs the tra	Bill of Lading id carrier (the at said destin aid route to co orm Domestic tariff, if this ansportation co	, the property of e word carrier ation, if on its destination and straight Bill of is a motor ca of this shipment	described above in a being understood thr route, otherwise to (as to each party at Lading set forth (1) rrier shipment. Ship , and the said term	oparent go oughout th deliver to a any time in in Uniform per hereby s and cond	od order, exce his contract a inother carrie nterested in a n Freight Clas certifies that ditions are he	ept as noted (contents s meaning any person r on the route to said all or any of said prop- stifications in effect on the is familiar with all preby agreed to by the
Transportatio an optional m Code of Feder	n Regulation nethod for id ral Regulation	priate to designate Hazardous Materials as o is governing the transportation of hazardous m entifying hazardous materials on Bills of Lading ns. Also when shipping hazardous materials, th 200(a) of the Federal Benulations as indicate	aterials. The upper 172.201	(a)(1) (iii) of Title 49	pany interpretation 172, Subpart C-S tions 172.201 (H	n of requiremen hipping Papers. Hazardous Mate hame, hazardou	nts as described in Such description erial Table) and S	e responsibility of indivi n 49 Code of Federal Re consists of the following ections 172,202 and 1 ification number, packir	egulations per Sec- 72.203:	or damage may be a United Stat	ity limitation for loss in this shipment pplicable. See 49 æs Code, Sections)(A) and (B).
SHIPPER					CARRIER		-i-				
PER					PER				_		
E				kaged, to the	tion was made	available and/	or carrier has th	e U.S. Department o	f Transport	ation emerger	ency response informa- ncy response guidebook

STRAIGHT BILL OF LADING – SHORT FORM NOTICE: Shippers of hazardous materials must enter 24-hour emergency response telephone number under "Emergency Response Phone Number. 673 Memorandum

	1	75	7070
Date	2	6	RELL

				1
Bill	of	Lading	No	22

Shipper No.

(Name of Carrier)							Carrier No					
TO:	/	1 112		(Name o	FROM:	1	11	6. /				
Consigne	e	and the Cold Carry	phy		Shipper Convince Decic							
Street	132	S. R. Roal			Street 433 Alar K H K							
Destinatio	on Bes	MICIL	Zip Code	70542	Origin	Van	14	Zip C	ode 70	1091		
Route:	1	14190	Vehicle N	o. 7617L		SCAC			rgency R ne Numb	esponse	255 3724	
No. Shipping Units	+HM	Kind of Packaging, Description of Special Marks and Exception	ecial or additional care and packaged as to er e) of National Motor F	sure safe tra	ensportation with	Weight (Subject to Correction)*	Rate or Class		CHARGES			
13802	X	111 12/17	Petrole	and Cour	6.01	5. Rell		74000				
631		1				Ĵ		1				
		/38	066	-1								
								1				
										_		
	-											
							1					
* If the shir	ment mov	es between two ports by a RE	MIT		C.O.D.		C.O.D. FEE:		TOTAL			
carrier by v	water; the l	aw requires that the bill of lading C.	D.D. TO: DDRESS		Amt. \$		PREPAID COLLECT	\$	CHARGE	S: \$		
Note-Whe state spec	ere the rat cifically in w	e is dependent on value, shippers a rriting the agreed or declared value of	re required to the property.	Subject to Section recourse on the c	7 of the condition	s, if this shi ignor shall	ipment is to be sign the followi	delivered to the cons ng statement.	signee with		IGHT CHARGES	
The agreed by the ship	d or declar	ed value of the property is hereby spe not exceeding	cifically stated	The carrier shall charges.	not make delivery	of this shi	ipment without	payment of freight	and all ot	ner	Appropriate Box: reight prepaid	
\$		per				(Ci===+++						
RECE	IVED, subje	ect to the classifications and lawfully fil	ed tariffs in effe	ect on the date of t	the issue of this Bi	l of Lading	re of Consignor) , the property c	escribed above in a	oparent go			
and conditio or corporation destination. erty, that ev the date her the terms a shipper and	n of conter on in posse It is mutu very service reof, if this accepted fo	ect to the classifications and lawfully fil the of packages unknown), marked, or assion of the property under the contr ally agreed as to each carrier of all o to be performed hereunder shall be is a rail or a rail-water shipment or ns of the said bill of lading, set forth r himself and his assigns.	ansigned, and de ract) agrees to r any of, said p subject to all th (2) in the applic in the classifica	estined as indicated carry to its usual p roperty over all or e terms and condit cable motor carrier ation or tariff which	l above which said place of delivery at any portion of said tions of the Uniforr classification or ta governs the trans	carrier (the said destin route to o Domestic riff, if this sportation o	e word carrier l ation, if on its r Jestination and a Straight Bill of is a motor ca of this shipment	being understood the route, otherwise to o as to each party at Lading set forth (1) rrier shipment. Shipp , and the said termine	oughout the deliver to a any time i in Uniforr per hereby and com	his contract as mother carrier nterested in a n Freight Clas certifies that ditions are her	is meaning any person on the route to said II or any of said prop- sifications in effect on the is familiar with all reby agreed to by the	
		riate to designate Hazardous Materials as s governing the transportation of hazardous						e responsibility of individ 49 Code of Federal Re	gulationa		y limitation for loss	
an optional m Code of Feder	ethod for ide ral Regulation section 172	entifying hazardous materials on Bills of Lac sentifying hazardous materials on Bills of Lac so. Also when shipping hazardous materials .204(a) of the Federal Regulations, as indic	ing per 172.201(, the shipper's cer	a)(1) (iii) of Title 49 tification statement	172, Subpart C-Ship tions 172.201 (Ha	ping Papers. ardous Mate ne, hazardou	Such description erial Table) and Se	consists of the following ections 172.202 and 1 ification number packing	per Sec- 72.203:	may be ap	in this shipment oplicable. See 49 es Code, Sections)(A) and (B).	
SHIPPER					CARRIER							
PER					PER							
E				ckaged, to the	tion was made av	ailable and/	or carrier has th	any required placards le U.S. Department o operty described abo	f Transport	ation emergen	ency response informa- cy response guidebook er, except as noted.	

STRAIGHT BILL OF LADING - SHORT FORM A-B3876, 9013, 9014 T-3841, L3841, 3843

STRAIGHT BILL OF LADING – SHORT FORM NOTICE: Shippers of hazardous materials must enter 24-hour emergency response telephone number under "Emergency Response Phone Number Original—Not Negotiable		Date <u>3-29</u>	-2020	—— Bill of Lac Shipper M —— Carrier N	ding No. 3 No. 3 No. 3	oje	16
TO: Consignee Acadam Oil Company Street 1825 River Boad		FROM: Shipper Cauve Street 433	Meder	lack mot BA			
Destination Berwick, LA Zip Code Route: Hwy90 Vehicle No. 74	47	Origin Vcn1 SCAC	e Lt		de <i>70</i> k gency Resp e Number	onse	55 3924
Shipping +HM Special Marks and Exceptions stowing must be an ordinary care. See	o marked	ectal or additional care or attention and packaged us to ensure safe the of Material Motor Franklin Classifie of Material Motor Franklin Classifie Con 1, 3, Pg/1	inspontation with	Weight (Subject to Correction)* 67,776	Rate or	Class	CHARGES
115,0 661							
*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading c.O.D. TO: state whether weight is "carrier's or shipper's weight".		C.O.D. Amt. \$	C.O.D. FEE: PREPAID COLLECT		TOTAL CHARGES:	\$	
state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding	on the c	7 of the conditions, if this shi consignor, the consignor shall not make delivery of this shi	sign the following	ng statement.		Check	IGHT CHARGES Appropriate Box: eight prepaid
S	date of t indicated s usual p ver all or and condi or carrier	the issue of this Bill of Lading,	re of Consignor) , the property d e word carrier t ation, if on its r destination and a Straight Bill of is a motor can f this shinment	escribed above in ap being understood thru oute, otherwise to d as to each party at a Lading set forth (1) rrier shipment. Shipp and the said terms	parent good or oughout this co eliver to anoth any time intere in Uniform Fre er hereby cert and conditon	rder, except ontract as er carrier isted in all eight Class tiffes that I is are here	ot as noted (contents
shipper and accepted for himself and his assigns. May wrth "RO" II appropriate to designate Hazardous Materials as defined in the U.S. Depint Transportation Regulations governing the transports on of hazardous materials. The use of this of an optional method for identifying hazardous materials on Bills of Lading per 172.201(a)(1)(a)) of Code of Federal Regulations Also when shipping hazardous materials, the "hippet" artification st prescribed in section 172.204(a) of the Federal Regulations, as indicated in the Bill of Lading doe milless is prescribed in section.	olumn 's Title 49 atemen	The format and part of the formation of	dous nem list is th s as described in Such miscription er I Table) and Se	e responsibility of indud 49 Code of Federal Rec cultures of the following actions 172.202 and 1	per Secondary 72 203 a gr up	e: Liability damage (be ap ed State	y limitation for loss in this shipment plicable. See 49 is Code, Sections (A) and (B)
SHIPPER		CARRIER					
PER		PER	_			_	
5	ged, the	Carrier acknowledges receipt tion was made available and/ or equivalent documentation i	or carrier has th	e U.S. Department of	Transportation	emergeno	y response guidebook

1-11

		L	& E		NSPOR	RT. L.	L.C.	NIGHT	S AWAY:	
ORDER NO.	13245		702 H	wy 190 W	/est, Port All 7-0894 1-8	en, LA 70	767	DISPA	TCHER	
CUSTOMER P.O.	,		ORDE		MILLIAME		RELEASE NO.			
LOAD DATE	05/28/20	TIME		DADING RIVER	AVEE		TRUCK NO.		RAILER BOD	603
DELIVERY DATE	05/28/20	TIME 11	50.0	ELIVERY RIVER			TRUCK NO.		RAILER IO.	
3	EGACY INDUS 303 SL George Av offerson, LA 701	ē		1	GNEE: CADIANA OI 825 River roa Berwick LA 70	d				
4	COLVILLION DC 33 McDarmett R Venice, LA 78091	load			5-23-14					
TRAILER APP Shipper Signature		R ED LOAD:		145						
X	RQ UN1287 PE	TROLEUM CR	UDE DA	BASIC DESC		ALG S	FGI	E.		QUANTITY GAL/WT
	21			10042	The second			74.12	-	
- 1	yro.	un		systematics	600-5 MI	14.2			1	
	11- 1	Prise les	14	L/ BA	6 = 1	-				
	1-1-1									
DRIVER SPE INSTRUCTIO	NS	161 -						NAL -		
	TED FROM TERMIN	NAL:	PUMP	BLOWER	EXTRA HOSE (FT)	EXTRA STOP	NED TO TERMI	INAL:	EAT SCALES/TOLLS	LAYOVER
CHECK		LOADING								
		DELIVERY						VEIGHT DA	TA	
TRAILER I	KENTAL	DELIVERY DATE: PICK UP	_	TIME:		GROSS	TARE		NET	
TRAILER NO		DATE:	_	TIME:						
LOADING REASON DEI	ARRIVE	:S	TART:		FINISH:	DEF	PART:		RS AYED:	
AUTHORIZ pertaining to this	CATION TO UNL s shipment, verified the p the receiving tank will ho	product and the quantity	y tendered f	or delivery. The	e documents REC connections SIG	CEIVER'S NATURE	X			
DELIVERY	ARRIVE	:S	TART:		FINISH:	DEF	PART:		RS AYED:	
DRIVER R										
		-					-	-	-	
IN CA	SE OF LEAN	M-RPT-DOC-00043	RE OF	OTHE	REMERGE	ENCY C	ALL CHEN	TREC	1-800-424	-9300

SHIDDED

	1.8	BTRA	NSPOR	T I		NIGHT	TS AWAY:	
ORDER NO.		2 Hwy 190 W				DISPA	TCHER	
	Ph	one (225) 387		800-545-9			WILLIAME	
CUSTOMER P.O.			VILLIAN E		RELEASE NO.			
LOAD DATE	1. Propress	LOADING DRIVER	AVEE		TRUCK NO.	0/03	TRAILER 00	1003
DELIVERY 05/29/3 DATE	ТІМЕ 11.34	DELIVERY DRIVER			TRUCK NO.		TRAILER NO.	
BILL TO: BOB St George			GNEE: CACIANA DIE 826 River road					
Jefferson, LA	0121	B	erwick, LA 78	34.2				
SHIPPER: COUVILLION 433 McDermot								
Venice, LA 780			1. +					
TRAILER AREDACTED Shipper	1							
Signature _		_		1				
X RG UN1287	PETROLEUM CRUDI	BASIC DESC	RIPTION EQU	ALO S	PG	0		QUANTITY GAL/WT
	X							
1		12 - 5		-				
								_
DRIVER SPECIAL INSTRUCTIONS								
TIME DEPARTED FROM TER	MINAL:					IINAL:		
		UMP BLOWER	EXTRA HOSE (FT)	EXTRA STOP	S WASH OUT	IN-TRANSIT H	EAT SCALES/TOLL	S LAYOVER
	LOADING							-
TRAILER RENTAL	DELIVERY		1	GROSS	TAR			
TRAILER NO	DATE: PICK UP DATE:	TIME:		GROSS			NET	
LOADING DATA	VE: STAR			DEF	PART:	HOU	RS AYED:	
REASON DELAYED:								
AUTHORIZATION TO U pertaining to this shipment, verified to are correct and the receiving tank will	ne product and the quantity tend	ered for delivery. The	documents REC connections SIG	EIVER'S	X			
DELIVERY DATA	VE: STAR	r:	FINISH:	DEF	PART:	HOU DEL/	RS AYED:	
				_				
IN CASE OF LE	SEM-RPT-DOC-00043E	OR OTHER		NCY C		MTREC	1-809-424	-9300

CHIDDED

	L	& B	TRA	NSPOR	T. L.	L.C.	NIGHTS	AWAY:	
ORDER NO. 303246		702 Hv	vy 190 W	est, Port Alle 7-0894 1-8	n, LA 70	767	DISPATC	HER	
CUSTOMER P.O.		ORDE		MILLIAME		RELEASE NO.			
LOAD 05/29/20 TIM	E ()@	LO		- UNKNOW	z I	TRUCK	617L TRA	ALER 8006	TOV
DELIVERY 05/25/20 TIME	E 12.	-54				TRUCK NO.	TRA NO.	NILER	
BILL TO: LEGACY INCUSTRIE 308 St George Ave Jelferson, LA 70121	es, elec		1	GNEE: CADLENA OIL 825 River road Serwick, LA 703	1				
SHIPPER: EOUVILION DOCK 433 McDermott Road Venice, LA 70091 M TRAILER A									
X RO UN1267 PETR	LEUM CRI		BASIC DESC	RIPTION EQU	ALD 3	PO)	0		UANTITY GAL/WT
							1		
					_				
DRIVER SPECIAL					_				
INSTRUCTIONS									
TIME DEPARTED FROM TERMINAL:						RNED TO TERM	1INAL:		Y
		PUMP	BLOWER	EXTRA HOSE (FT)	EXTRA STOP	PS WASH OUT	IN-TRANSIT HEAT	SCALES/TOLLS	LAYOVER
	DELIVERY								
TRAILER RENTAL	DATE:		TIME		GROSS	TAR	WEIGHT DATA	NET	
TRAILER NO	PICK UP DATE:		TIME:						
LOADING DATA ARRIVE:	ST			FINISH:	DEF				
REASON DELAYED:									1
AUTHORIZATION TO UNLOA pertaining to this shipment, verified the product are correct and the receiving tank will hold the	t and the quantity	tendered for	or delivery. The						
DELIVERY DATA ARRIVE:	ST			FINISH:	DEF	PART:			
REASON DELAYED:					-				

		2. P	TDA	NSPOF	т		NIGHT	TS AWAY:	
ORDER NO.				/est, Port Alle			_	TCHER	4
303246	I	Phone	(225) 38	7-0894 1-8	800-545-9	401		WILLIAME	3
CUSTOMER P.O.		ORDE BY	RED	MILLIAME		RELEASE NO.			1
LOAD 05/29/20 . DATE .	TIME 00		ADING RIVER	LEES		TRUCK NO.	the set of	TRAILER	977
DELIVERY 05/28/20 . DATE	TIME 12		ELIVERY			TRUCK NO.		TRAILER NO.	
BILL TO: LEGACY INDUST	DIEC TIA		CONSI	GNEE:					
108 St. George Av				1625 River roa				-	
Barren 1 a 204									
Jefferson, LA 701	6 1			Berwick, L.4.70	3 4				
				· ent					
SHIPPER: COUVILLION DO	СК								
433 McDermatt R	0-50								
Venige, LA 70091									
	-								
Shipper									
Signature				PIPTION	F.				QUANTITY
	C C C C C C C C C C C C C C C C C C C	w()	BAGIO DE DE	CRIPTION EQU	AL OI 3	PGI	0		GAL/WT
*									
							41		
							-		
211			-				-		
DRIVER SPECIAL				2.	14-1				
INSTRUCTIONS				×					
				- 74					
TIME DEPARTED FROM TERMINA ACCESSORIAL CHARGES	AL:	PUMP	BLOWER	EXTRA HOSE (FT)	EXTRA STOP	NED TO TERM	INAL:	EAT SCALES/TO	LLS LAYOVER
	LOADING	1 0.00	BEOMEN						
THAT APPLY	DELIVERY								
TRAILER RENTAL	DELIVERY DATE:		TIME:		GROSS	TAP	WEIGHT DA	NET	
TRAILER NO	PICK UP DATE:	_	TIME:	st.					
LOADING DATA ARRIVE:	ST	ART:	4	FINISH:	DEF	ART:	HOU		(
REASON DELAYED:		_							1
AUTHORIZATION TO UNLO pertaining to this shipment, verified the pro are correct and the receiving tank will hold	oduct and the quantity	endered fo	or delivery. The	e documents REC connections SIG	EIVER'S	X			2
DELIVERY DATA					DEC	ADT.	HOU		
	ST	ART:			DEF	ART:	DEL	AYED:	
REASON DELAYED:									
1								-	
IN CASE OF LEAK	SPILL FIR		OTHE	R EMERGE	NCY C	ALL CHE	MTREC	1-800-42	4-9300

SHIPPER

LEGACY									
INDUS	TRIES								
Day Date: 05-27-2020	Ticket No:								
WORK ORDER FROM:	JOB SITE:								
PO NUMBER	JOB NRC CRUDE OIL								
COMPANY LEGACY	JOB SITE VENICE								
CONTACT NAME	CONTACT NAME								
TITLE	TITLE								
ADDRESS 308 ST GEORGE AVE.	ADDRESS 433 ME DERMOTT R								
NEWORLEANS LA. 7012	VENICE LA								
PHONE 557-900-1194	PHONE								
FAX	FAX								
EMAIL	EMAIL								
TRANSPORTATION:	TIME: (Military)								
DRIVER	SHOP : DEPART @								
SUPERVISOR	JOB SITE : ARRIVE @ 0731 DEPART @ 1000								
HELPER	DISPOSAL/RECYCLE : ARRIVE @ DEPART @								
TRCK NO TRCK SIZE 6797 190 PBL	CLEAN OUT : ARRIVE @ DEPART @								
GALLONS BARRELS	: ARRIVE @ DEPART @								
DISPOSAL SITE	SHOP : ARRIVE @								
WASH OUT SITE	TOTAL TIME								
DESCRIPTION OF WORK: TRE TRIP TRI OILY WATER.	AVEL TO SITE. RECEIVER								
Und writen									
AUTHORIZED CUSTOMER REPRESENTATIVE SIGNATURE:	DATE: 5/27/2								
PRINT NAME:	TITLE:60 of 66								

E.R.R.LLC EVERGREEN

No. 10513

GEI	NERATOR		
Generator NRC CRUNI OIL	I.D. #	6	
Address JERMEDERMOTT R.	_ Shipping Loca	tion	1 . Dock
VENICE LA		etternine st A	les Orlans LA
Phone	Phone	1 912-0476	43, Meper
Description Waste Materials Profile Number	Total Quantity	Units of Measure	Container Type
OILY WATER	オーキャンシュ	Gallens	GOBBL
	377132		
SHIPPING	SEAL NUMBER	S	
F. S.			State of the
	1		
All entry points must have a seal	. Without seal ship	ment will be returned	
HEREBY CERTIFY THAT THE ABOVE DESCRIBED MATER			
ART 261 OR ANY APPLICABLE STATE LAW, HAVE BEEN GED AND ARE IN PROPER CONDITION FOR TRANSPOR			
	REDACTED		27MA1/2502
Generator Authorized Agent Name (Print)	-		Delivery Date
Generator Authorized Agent Name (Print)	Signature		
			Delivery Date
TRAN	SPORTER		Denvery Date
DEDACTED			
ransporter Name	SPORTER		
ransporter Name D. #	Driver Name		
Transporter Name 274390 D. # DCT 3214390 Address $308 \leq 76666666$ AVE	Driver Name		
Transporter Name D. # DOT 3204340 Address 309 57 GERGE AVE <u>NCLA</u> 70121 HEREBY ACKNOWLEDGE RECEIPT OF THE ABOVE DESCRIBED MATERIALS FOR TRANSPORT FROM THE	Driver Name Truck Number Truck Type I HEREBY AC SCRIBED MA GENERATOR	KNOWLEDGE THAT T TERIALS WERE RECE SITE WERE TRANSP THE DESTINATION L	HE ABOVE DE- EIVED FROM THE ORTED WITHOUT ISTED BELOW.
Tansporter Name D. # ddress_ <u>308 57 GEERGE AVE</u> HEREBY ACKNOWLEDGE RECEIPT OF THE ABOVE ESCRIBED MATERIALS FOR TRANSPORT FROM TH	Driver Name Truck Number Truck Type I HEREBY AC SCRIBED MA GENERATOR	KNOWLEDGE THAT T TERIALS WERE RECE SITE WERE TRANSP	HE ABOVE DE- EIVED FROM THE ORTED WITHOUT
ransporter Name D. #	Driver Name Truck Number Truck Type I HEREBY AC SCRIBED MA GENERATOR	KNOWLEDGE THAT T TERIALS WERE RECE SITE WERE TRANSP THE DESTINATION L	HE ABOVE DE- EIVED FROM THE ORTED WITHOUT ISTED BELOW. 5-27-20 25-27-20
Transporter Name D. #	Driver Name Truck Number Truck Type I HEREBY AC SCRIBED MA GENERATOR INCIDENT TO	KNOWLEDGE THAT T TERIALS WERE RECE SITE WERE TRANSP THE DESTINATION L	HE ABOVE DE- EIVED FROM THE ORTED WITHOUT ISTED BELOW.
ransporter Name D. #	Driver Name Truck Number Truck Type I HEREBY AC SCRIBED MA GENERATOR	KNOWLEDGE THAT T TERIALS WERE RECE SITE WERE TRANSP THE DESTINATION L	HE ABOVE DE- EIVED FROM THE ORTED WITHOUT ISTED BELOW. 5-27-20 Ivery Date
Transporter Name D. # <u>Def 3204240</u> ddress <u>309 57 GEREE AYE</u> <u>NCLA 70121</u> HEREBY ACKNOWLEDGE RECEIPT OF THE ABOVE ESCRIBED MATERIALS FOR TRANSPORT FROM THE ENERATOR SITE LISTED ABOVE. REMARKED - DEST LA 0125750	Driver Name Truck Number Truck Number Truck Type I HEREBY AC SCRIBED MA GENERATOR INCIDENT TO	KNOWLEDGE THAT T TERIALS WERE RECE SITE WERE TRANSP THE DESTINATION L De	HE ABOVE DE- EIVED FROM THE ORTED WITHOUT ISTED BELOW. 5-27-20 100000000000000000000000000000000000
ransporter Name D. #	Driver Name Truck Number Truck Number Truck Type I HEREBY AC SCRIBED MA GENERATOR INCIDENT TO	KNOWLEDGE THAT T TERIALS WERE RECE SITE WERE TRANSP THE DESTINATION L	HE ABOVE DE- EIVED FROM THE ORTED WITHOUT ISTED BELOW. 5-27-20 100000000000000000000000000000000000
Transporter Name REPACTED D. #	Driver Name Truck Number Truck Type I HEREBY AC SCRIBED MA GENERATOR INCIDENT TO INCIDENT TO	KNOWLEDGE THAT T TERIALS WERE RECE SITE WERE TRANSP THE DESTINATION L De De Number _(504) 554-928	HE ABOVE DE- EIVED FROM THE ORTED WITHOUT ISTED BELOW. 5-27-20 100000000000000000000000000000000000
Transporter Name REDACTED D. #	Driver Name Truck Number Truck Type I HEREBY AC SCRIBED MA GENERATOR INCIDENT TO INCIDENT TO	KNOWLEDGE THAT T TERIALS WERE RECE SITE WERE TRANSP THE DESTINATION L De De Number _(504) 554-928	HE ABOVE DE- EIVED FROM THE ORTED WITHOUT ISTED BELOW. 5-27-20 100000000000000000000000000000000000
Transporter Name, PERMITED D. #	Driver Name Truck Number Truck Type I HEREBY AC SCRIBED MA GENERATOR INCIDENT TO INCIDENT TO	KNOWLEDGE THAT T TERIALS WERE RECE SITE WERE TRANSP THE DESTINATION L De De Number _(504) 554-928	HE ABOVE DE- EIVED FROM THE ORTED WITHOUT ISTED BELOW. 5-27-20 The out 12-30 e Out 12-30

Couv-MC20-O&M-RPT-DOC-00043

⁶¹ of 66

E.R.R.LLC EVERGREEN

No.____

10511

62 of 66

NON-HAZARDOUS MANIFEST

	NERATOR	C. Friday States	Star May 24
Generator_NRC	I.D. #		a being the set of
Address 371 WALKER TO	_ Shipping Loca	ation	E 11 7 7 2
BELLE CHARE IN. 7037	Address		
Phone	_ Phone		19 19 19 19 19 19 19 19 19 19 19 19 19 1
Description Waste Materials Profile Number	Total Quantity	Units of Measure	Container Type
OILY WATH WATER	200	Lob Lens	GOBBL VAC
SHIPPING	SEAL NUMBER	lS	
All entry points must have a seal	I. Without seal shi	pment will be returne	d.
I HEREBY CERTIFY THAT THE ABOVE DESCRIBED MATER PART 261 OR ANY APPLICABLE STATE LAW, HAVE BEEN AGED AND ARE IN PROPER CONDITION FOR TRANSPOR	FULLY AND ACCUR	RATELY DESCRIBED, CL	
Generator Authorized Agent Name (Print)	Sig	1 18 18 19 19	Delivery Date
TRAN	SPORTER	The second second	
Transporter Name I.E.GACY I.D. # DOT 3204290 Address 308 57.6005000000000000000000000000000000000	Driver Driver Truck Number Truck Turo	6797 BBL VX	
I HEREBY ACKNOWLEDGE RECEIPT OF THE ABOVE DESCRIBED MATERIALS FOR TRANSPORT FROM THE GENERATOR SITE LISTED ABOVE.	HE SCRIBED M GENERATO	CKNOWLEDGE THAT ATERIALS WERE REC R SITE WERE TRANS O THE DESTINATION	CEIVED FROM THE PORTED WITHOUT
EDACTED			
DES	TINATION		
I.D. NumberLA 0125750	Time	In Ti	me Out
Site NameBelle Chasse Outfall #001	Phon	e Number (504) 554-9	285 (504) 512-1039
Address9875 Hwy 23 South, Belle Chasse, LA 7		a she was a said	Station in the second
HEREBY ACKNOWLEDGE RECEIPT OF THE ABOVE	DESCRIBED MAT	TERIALS.	
	and the	1. 200 1. 10	
	The second second		

Couv-MC20-O&M-RPT-DOC-00043

ACADIA	NA OIL & ENV CORPORAT	-	ENTAL	TRA	NSPORT MANIFEST			
1206 Lemaire St. • New Iberia, LA 70560					Lease Run Ticket			
	337-560-5				22235			
	Y RESPONSE (CONTAC	ľ:					
ES&H		Date		.5	-28-2020			
85-851-505	0		-		11111			
Operator			Lease No. C	G				
ease Name	Couv	ill.	sn					
	Jenica							
À.	OIL LEVEL		B	S&W LI	EVEL TANK			
	INCHES	3	F	Т. И	NCHES TEMP			
1st		-						
				-				
2nd								
TAN	IK NO.	SIZE						
			EST.					
62	006	6.500	GROSS GALLON	IS	@ °F			
	SERIAL NUMBERS		OBSERVED)				
OLD			GRAVITY	é	28 @84 ª⊧			
NEW			PERCENT BS & W	12	TEMPERATURE OF OIL			
-			BS & W	-	FFICE USE ONLY			
log Number		-	-	-	YCORR			
		Tid	Chief and a second					
	Q 011	#30	3245	1st				
TIME	AM			2nd				
DEPARTED	PM	-		GROSS				
		KL		BARRE				
STATION C	Derwie	inc	pa.	FACTO	1089-			
TEMP. FACTOR	X WFACTOR	= 0	X FACTOR	NET BE	10			
.4900	.9900	- 9	108	PER RU				
	GROSS O	DRIVER REDACTED		2.				
	E N	c						
	TARE	DRIVER	/	0				
	L L		C					
	NET O S	OPERATORS	SWITNESS					
I.D.	PROPE	-P	HAZARD	PG	TOTAL			
NUMBER	SHIPPING		CLASS	r G	BBLS			
UN	PETROLE	EUM	3	111				
1267	CRUDE		3	111	137.51			
			RC		140			
			BS		1.20			
			Temp		1.39			
					LS 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:

Date:

ACADIAN	A OIL & ENVI		NTAL					
1206 Lemaire St. • New Iberia, LA 70560 337-560-5573					Lease Run Ticket			
	RESPONSE C	ONTACI	:	_				
E S & H 985-851-5055		Date	-	5	- <u>2</u>	20 2	50	
Operator		L	ease No. C	G				
ease Name	Couvi	Nio	n				_	
ield	Venic	e L	sa.			_	_	
	OIL LEVEL		12	S&WLE		TAN		
	INCHES		F	I. IN	CHES	TEM		
1st								
2nd		-						
TAN	K NO.	SIZE						
62	006	12.50	SO EST. GROSS GALLON	S		@	٩	
	ERIAL NUMBERS		OBSERVED		71	@80	°F	
<u>د</u>		-	GRAVITY	2.4%	TEM	PERATURE		
NEW			BS & W	%		ANK	٩F	
LOG NUMBER		7-1		GRAVIT TO 60 °F	Y CORR	JSE ONL		
TIME	АМ	7.0	3246	1st				
ARRIVED	PM			Ord	-		-	
TIME DEPARTED	AM PM			2nd GROSS	-	120	1.0	
DELIVERY R	Derwic	× (,	D.	BARREL	.s	138	^r d	
TEMP. FACTOR	BS &		FACTOR	FACTOR		-96	Jc	
.9918	X WFACTOR	.9	629	NET BB		134	. 0	
	GROSS O	RIVER		-		1		
	TARE							
	C L	DRIVER		0				
	NET O S E	OPERATOR'S	S WITNESS					
I.D. NUMBER	PROPE SHIPPING I		HAZARD CLASS	PG		OTAL BBLS		
UN PETROL 1267 CRUDE			3	111	13	4.0	با	
			BS		3	.32		
			Temp		١.	11		

"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:

Date:_

ACADI	ANA OIL & ENV CORPORAT		ENTAL	TRA	NSPORT MANIFEST
	emaire St. • New I 337-560-55	beria, LA 573			Lease Run Ticket
EMERGENO E S & H	CY RESPONSE C			5	-29- 2020
985-851-50	55	Date	Г	T	
Operator	•	-	Louise men 1	CG	
_ease Name - ield	<u>Couv</u> Venice	. 1	ion		
G _A			_	3S&W L	EVEL
GE FEET	OIL LEVEL				NCHES TEMP
2nd			-	-	
ТА	NK NO.	SIZI			
62	006	12,50	SO EST. GROSS		@ °F
OLD	SERIAL NUMBERS		OBSERVE	D 3	25 @84°F
NEW			PERCENT BS & W	1.4%	OF OIL IN TANK PF
LOG NUMBER		1	ket		FFICE USE ONLY
TIME ARRIVED	AM PM		03247	1st	
TIME DEPARTED	AM PM			2ndi	
DELIVERY STATION	Bania	k		GROSS	
TEMP. FACTOR	X WFACTOR		X FACTOR	FACTO	-1101
. 9903	-9860	.0	1764	NET BE	
	GROSS O P E N	DACTED			
	TARE C	miven	/		
	NET O E	PERATOR	S WITNESS		
I.D. NUMBER	PROPER SHIPPING NAME		HAZARD CLASS	PG	TOTAL BBLS
UN 1267	PETROLEUM CRUDE OIL		3	111	131.66
			BS		1.89
			Temp		1.29

"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:

Date:

ACADIA	NA OIL & ENV CORPORAT		ENTAL	TRA	NSPOF	RT MANIFEST		
1206 Lemaire St. • New Iberia, LA 70560 337-560-5573 EMERGENCY RESPONSE CONTACT:					Lease Run Ticket			
EMERGENC E S & H 985-851-505		Date		5	-20	1- 20 20		
Operator			Lease No.	G				
ease Name	Cours	li'	100	-				
Field	Veni	ce	La.		_			
GAUGE FEET				11 W&28 11 .T=	EVEL NCHES	TANK TEMP		
2nd								
62		ID.50				@ °F		
GLD			OBSERVE	D (26	@ 8 4 °F		
N N			PERCENT BS & W	5%				
LOG NUMBER TIME ARRIVED	AM		ket 3246	-	Y CORR.	ISE ONLY		
TIME	AM PM			2nd				
	Derwic	x ho		GROSS BARREI		116.61		
TEMP. FACTOR	X BS & W FACTOR		X FACTOR	X FACTOR	-	.9407		
.9902	-9500		140.7	NET BB PER RU		109.69		
	TARE C	REDACTED	S WITNESS					
I.D. NUMBER	PROPER SHIPPING NAME		HAZARD CLASS	PG		DTAL BLS		
UN 1267	PETROLEUM CRUDE OIL		3	111	10	2,69		
			35		5.	83		
			1		1	0 4		

CLASSIFIED, DESCRIBED, PACKAGED, MARKED, AND LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION, ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION".

Shipper:

Date:_