

# Couvillion Group, LLC MC-20 Hydrocarbon Pump-Off #50 Results Report

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| Revision | Date      | Ву | Check | Approve | Remarks  |
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| 0        | 6/16/2023 |    |       |         | Initial  |
|          |           |    |       |         | Document |

#### **Summary:**

Couvillion Group's Rapid Response Collection System initiated its fiftieth collection cycle on 4/7/2023 and completed the cycle on 5/14/2023 resulting in a collection duration of 36.5 days. Using the OSV Brandon Bordelon the collected hydrocarbon fluid that was recovered from the subsea oil containment vessels was taken to the Couvillion Dock in Port Fourchon, Louisiana. Vessel to Dockside Transfer commenced on 5/21/2023, with 740.4 bbl of hydrocarbon fluids transferred to onshore frac tanks 1-3 according to NRC frac tank strapping.

On 6/5/2023, Couvillion Group confirmed the initial measurement of 740.4 bbl of hydrocarbon fluids in frac tanks 1-3 via strap measurements. After a confirmation measurement was recorded, the decanting process began. From frac tanks 1-3, a total of 12.9 bbl of water was decanted on 6/5/2023. This 12.9 bbl of water was sent to the fourth frac tank for disposal at a later time. A gross total of 697.9 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 657.2 bbl of oil was transferred from tanks 1-3 in the Port Fourchon yard to the Acadiana Oil Company.

#### **Procedures Followed:**

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

#### **Execution:**

#### Offshore Collection of Hydrocarbon Fluids at MC-20 Site:

The Brandon Bordelon OSV moved in place on location at MC-20 on 5/14/2023 at 03:50 hrs. An asfound ROV survey was conducted prior to commencement of pump off operations. To begin pump off operations ROV's were launched and thereafter the hydraulic subsea pump and hoses were over boarded. The inlet hose to the hydraulic subsea pump was connected to the offload outlet on the subsea oil storage containers. On 5/14/2023 the ATI/BTI were closed at 05:36, marking the end of the 50<sup>th</sup> collection cycle. Pumping commenced at 13:08 on 5/14/2023 and ended at 22:02 on 5/14/2023. 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 756.6 bbl of hydrocarbon fluid was collected according to the tank strap measurement taken offshore. Upon pump off completion the hoses and pump were surfaced and flushed with saltwater that was sent to a filtration system for treatment and over boarding.

#### **Vessel to Dockside Transfer**

The Brandon Bordelon arrived at the Couvillion Dock in Port Fourchon, Louisiana on 5/21/2023. On the morning of 5/21/2023 hoses were run from the tanks on the vessel through a diaphragm pump and then run to 500 bbl frac tanks. The pump-off process was begun and continued until all MPT tanks aboard the OSV Brandon Bordelon were empty. Tankermen from Team Services verified that the MPT tanks onboard the vessel were emptied, then an NRC representative strapped the dockside frac tanks to determine **the total quantity transferred which was 740.4 bbl.** With the dockside transfer complete, the fluid was allowed to settle out water from the oil over a period of time before the transfer of the oil from the frac tanks to tank trucks.

#### **Dockside Frac Tanks to Truck Transfers**

On the morning of 6/6/2023 at 07:00 hrs the first round of frac tanks to tank truck transfers commenced. A hose was attached to the frac tank and ran through a diaphragm pump into a tank truck. Pumping commenced and the first truck received 141.3 bbls, the second truck received 155.4 bbls, and the third truck received 152.3 bbls of hydrocarbon fluids. The second day of truck transfers began on 6/7/2023 at 07:00. The fourth truck received 147.2 bbls and final truck of pumpoff 50 received 101.7 bbls of hydrocarbon fluids. There was a total of 29.6 bbls of residual fluids which remained in frac tanks 1-3 and was later pumped into tank 4. All values were recorded in the appropriate forms in the MC-20 Response Disposal Plan (see report Appendix I). Total fluid reconciliation for frac tanks 1-3 was within 0.0%.

#### **Truck to Facility Transfer**

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

#### **Summary Tally and Running Totals:**

The tables below show an oil tally, a total fluid reconciliation, and a flow rate calculation. In total 740.4 bbl of hydrocarbon fluid was transferred from the Brandon Bordelon into an onshore frac tank. Tank trucks transported a gross total of 697.9 bbl to the Acadiana Oil Company, which netted out to a total of 657.2 bbl. From a total fluid reconciliation standpoint, measurements at different site locations were within 0.0% for frac tanks 1-3. The calculated flow rate during the 36.5-day collection cycle offshore was 18.0 bbl/day or 756.0 gal/day. Monthly pump off collection rates reflects collection rates which are not inclusive of product that remains in the residual tank. This causes monthly collection rates to appear slightly lower than the historic average. As of the end of this pump off campaign 1,277,619.0 gallons of salvaged crude oil have been contained from the MC-20 site.

#### Oil Tally

|                |                          |              |              |              | Truck 1        |                |             |                | Truck 2                                          |                                                  |              |                | Truck 3        |                |            |                | Truck 4      |             |            |                 |          | Running                                 |
|----------------|--------------------------|--------------|--------------|--------------|----------------|----------------|-------------|----------------|--------------------------------------------------|--------------------------------------------------|--------------|----------------|----------------|----------------|------------|----------------|--------------|-------------|------------|-----------------|----------|-----------------------------------------|
| Oil Tally      | Date                     | Total Fluid  | Total Fluid  |              | Total Fluids   | Total Fluid    |             |                | Total Fluids                                     | Total Fluid                                      |              |                | Total Fluids   | Total Fluid    |            |                | Total Fluids | Total Fluid |            | $\neg$          | Total    | Total                                   |
| ,              |                          | Transfer     | Frac         | %            | to Acadiana    | at             | %           | Net            | to Acadiana                                      | at                                               | %            | Net            | to Acadiana    | at             | %          | Net            | to Acadiana  | at          | %          | Net             | Net      | Net                                     |
|                |                          | by           | Tank Strap   |              | NRC Frac       | Acadiana       |             |                | NRC Frac                                         | Acadiana                                         |              |                | NRC Frac       | Acadiana       |            |                | NRC Frac     | Acadiana    | 1          | ı               |          |                                         |
|                |                          | Legends      | by NRC       | Diff         | Strap          | by strap       | Diff        | Oil            | Strap                                            | by strap                                         | Diff         | Oil            | Strap          | by strap       | Diff       | Oil            | Strap        | by strap    | Diff       | Oil             | Oil      | Oil                                     |
| 2 200 114      | 1/25/2010                | (bbl)        | (bbl)        | 2.0          | (bbl)          | (bbl)          |             | (bbl)          | (bbl)                                            | (bbl)                                            |              | (bbl)          | (bbl)          | (bbl)          |            | (bbl)          | (bbl)        | (bbl)       | $\vdash$   | (bbl)           | (bbl)    | (bbl)                                   |
| Pump Off #1    | 4/26/2019<br>5/6/2019    | 220.0        | 215.7        | -2.0         | 113.7          | 110.0          | 3.3         | 108.8          | 97.0                                             | 87.4                                             | 9.9          | 78.6           |                |                |            |                |              |             | 1          | ı               | 187.4    | 187.4                                   |
| Pump Off #2    | 5/3/2019                 | 246.3        | 223.5        | -10.2        | 113.7          | 110.0          | 3.3         | 100.0          | 37.0                                             | 67.4                                             | 5.5          | 78.0           |                |                |            |                |              |             | H          |                 | 107.4    | 107.4                                   |
| · unip on iii  | 5/8/2019                 | 2.10.5       | 223.5        | 10.2         | 101.3          | 102.0          | -0.7        | 99.7           | 82.8                                             | 83.8                                             | -1.2         | 81.9           |                |                |            |                |              |             | 1          | ı               | 181.6    | 369.0                                   |
| Pump Off #3    | 5/13/2019                | 335.0        | 331.2        | -1.1         |                |                |             |                |                                                  |                                                  |              |                |                |                |            |                |              |             |            |                 |          |                                         |
|                | 5/16/2019                |              |              |              | 103.2          | 89.1           | 13.7        | 82.9           | 126.4                                            | 136.4                                            | -7.9         | 132.1          | 108.5          | 99.5           | 8.3        | 80.7           |              |             |            |                 | 295.7    | 664.8                                   |
| Pump Off #4    | 6/19/2019                | 901.7        | 905.5        | 0.4          | 139.4          | 145.8          | -4.6        | 143.0          | 138.7                                            | 139.4                                            | -0.5         | 137.4          |                |                |            |                |              |             | 1          | ı               |          | i l                                     |
|                | 6/20/2019                |              |              |              | 137.7          | 136.2          | 1.1         | 113.0          | 140.7                                            | 141.4                                            | -0.5         | 139.4          | 140.6          | 141.4          | -0.6       | 134.2          | 144.1        | 141.4       | 1.9        | 138.4           | , ,      | i l                                     |
| 2 000 115      | 6/21/2019                | 40000        | 4400.0       |              | 48.5           | 47.1           | 2.8         | 44.6           | 440.7                                            | 450.0                                            |              | 446.5          |                |                |            |                |              |             | $\vdash$   | $\vdash$        | 850.0    | 1,514.8                                 |
| Pump Off #5    | 7/31/2019<br>8/1/2019    | 1200.2       | 1196.6       | -0.3         | 139.2<br>139.1 | 138.3<br>145.7 | 0.6<br>-4.7 | 133.7<br>135.1 | 142.7<br>140.7                                   | 150.0<br>138.4                                   | -5.1<br>1.6  | 146.5<br>131.9 | 146.0          | 142.0          | 2.7        | 81.3           | 138.0        | 142.0       | -2.9       | 140.0           |          | i l                                     |
|                | 8/2/2019                 |              |              |              | 99.8           | 112.9          | -13.1       | 111.0          | 101.1                                            | 105.6                                            | -4.5         | 104.2          | 140.0          | 142.0          | 2.7        | 01.3           | 130.0        | 142.0       | -2.5       | 140.0           | 983.7    | 2,498.5                                 |
| Pump Off #6    | 8/26/2019                | 848.0        | 874.6        | 3.0          | 141.7          | 138.4          | 2.3         | 134.6          | 140.3                                            | 145.7                                            | -3.8         | 140.6          | 141.5          | 145.7          | -3.0       | 143.2          |              |             |            |                 | 303.7    | 2,150.5                                 |
|                | 8/27/2019                |              |              |              | 140.5          | 138.4          | 1.5         | 135.5          | 137.2                                            | 142.0                                            | -3.5         | 139.1          | 61.3           | 65.6           | -7.0       | 64.2           |              |             | 1          | ı               |          |                                         |
|                |                          |              |              |              |                |                |             |                |                                                  |                                                  |              |                |                |                |            |                |              |             |            |                 | 757.2    | 3,255.7                                 |
| Pump Off #7    | 9/23/2019                | 891.9        | 880.4        | -1.3         | 138.0          | 134.7          | 2.4         | 132.4          | 144.3                                            | 151.8                                            | -5.2         | 148.9          | 142.6          | 142.0          | 0.4        | 139.7          |              |             | 1          | ıl              | , ,      | i l                                     |
|                | 9/24/2019                |              |              |              | 144.4          | 142.0          | 1.7         | 139.1          | 143.7                                            | 138.4                                            | 3.7          | 135.5          | 55.3           | 54.6           | 1.3        | 53.7           |              |             | ш          | $\vdash \vdash$ | 749.3    | 4,005.0                                 |
| Pump off #8    | 10/21/2019               | 790.9        | 787.4        | -0.4         | 440.0          | 404.0          |             |                | 454.0                                            | 454.0                                            |              |                |                | 4000           |            |                |              |             | 1          | ı               |          |                                         |
|                | 10/22/2019 10/23/2019    |              |              |              | 143.9          | 131.0          | 9.0         | 129.1<br>139.2 | 154.3                                            | 151.9                                            | 1.5<br>3.3   | 149.7<br>123.6 | 144.0          | 136.2          | 5.4        | 134.2          |              |             | 1          | ı               |          |                                         |
| Residual Tank  | 10/23/2019               |              | 205.1        |              | 137.7          | 141.4          | -2.7        | 139.2          | 130.0                                            | 125.7                                            | 3.3          | 123.0          | 125.4          | 125.7          | -0.2       | 123.6          |              |             | i+         | rH              | 799.4    | 4,804.4                                 |
| Pump off #9    | 11/11/2019               | 772.3        | 757.8        | -1.9         |                |                |             |                |                                                  |                                                  |              |                | 123.4          | 123.7          | 0.2        | 123.0          |              |             |            |                 | 733.4    | 4,004.4                                 |
|                | 11/19/2019               |              |              |              | 142.3          | 156.5          | -10.0       | 153.6          | 143.8                                            | 131.0                                            | 8.9          | 128.8          | 145.3          | 142.0          | 2.3        | 139.9          |              |             | 1          | ı               |          | i l                                     |
|                | 11/20/2019               |              |              |              | 145.6          | 145.6          | 0.0         | 143.6          | 92.1                                             | 94.6                                             | -2.8         | 93.3           |                |                |            |                |              |             |            |                 | 659.1    | 5,463.5                                 |
| Pump off #10   | 12/17/2019               | 940.7        | 942.8        | 0.2          | 142.0          | 138.4          | 2.5         | 136.9          | 71.4                                             | 69.2                                             | 3.1          | 68.5           | 146.4          | 145.7          | 0.5        | 144.2          |              |             |            | , —             |          |                                         |
|                | 12/18/2019               |              |              |              | 146.4          | 138.4          | 5.5         | 136.8          | 144.3                                            | 145.7                                            | -1.0         | 144.4          | 144.0          | 142.0          | 1.4        | 140.8          | 47.4         | 47.4        | 0.0        | 47.0            | 818.6    | 6,282.1                                 |
| Pump off #11   | 1/9/2020                 | 697.7        | 691.0        | -1.0         | 128.7          | 131.1          | -1.9        | 128.3          | 128.0                                            | 131.1                                            | -2.4         | 129.3          | 129.8          | 131.1          | -1.0       | 129.6          |              |             | 1          | ı               |          |                                         |
|                | 1/10/2020                |              |              | <b> </b>     | 79.4           | 91.0           | -14.6       | 90.0           | 92.6                                             | 91.1                                             | 1.6          | 90.0           |                |                |            |                |              |             | <b> </b> - | <b></b> -       |          |                                         |
| Residual Tank  | 1/8/2020                 | 725.4        | 722.5        | 0.4          | 141.9          | 142.0          | -0.1        | 140.0          | 102.1                                            | 101.0                                            | 0.2          | 100.4          | 00.0           | 101.0          | 2.0        | 07 F           |              |             | $\vdash$   | $\vdash$        | 707.2    | 6,989.3                                 |
| Pump off #12   | 2/12/2020<br>2/13/2020   | 725.4        | 722.5        | -0.4         | 120.8<br>149.5 | 123.8<br>160.2 | -2.5<br>-7  | 115.8<br>154   | 102.1<br>114.2                                   | 101.9<br>101.92                                  | 0.2<br>10.8  | 100.4<br>61.1  | 99.0           | 101.9          | -2.9       | 97.5           |              |             | 1          | ı               |          |                                         |
| Residual Tank  | 2/17/2020                | <del> </del> |              | <del> </del> | 108.2          | 105.6          | 2.4         | 101.3          | 114.2                                            | 101.52                                           | 10.0         | 01.1           | <del> </del> - |                |            |                |              |             | H          |                 | 630.1    | 7,619.4                                 |
| Pump off #13   | 3/11/2020                | 583.7        | 570.2        | -2.4         |                |                |             |                |                                                  |                                                  |              |                |                |                |            |                |              |             |            |                 |          | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
|                | 3/12/2020                |              |              |              | 114.5          | 115.2          | -0.6        | 112.7          | 138.3                                            | 136.2                                            | 1.5          | 134.3          |                |                |            |                |              |             | 1          | ı               |          |                                         |
|                | 3/13/2020                |              |              |              | 93.6           | 94.3           | -0.7        | 91.9           | 120.0                                            | 120.4                                            | -0.3         | 117.5          |                |                |            |                |              |             |            |                 | 456.4    | 8,075.8                                 |
| Pumpoff #14    | 4/16/2020                | 966.7        | 928.8        | -4.1         | 147.2          | 146.5          | 0.5         | 144.6          | 145.2                                            | 141.2                                            | 2.8          | 139.4          | 148.0          | 146.5          | 1.0        | 143.7          |              |             | 1          | ı               |          |                                         |
|                | 4/17/2020                | ļ            |              |              | 144.9          | 146.5          | -1.1        | 144.3          | 144.1                                            | 141.2                                            | 2.0          | 139.1          | 87.4           | 88.9           | -1.7       | 87.3           |              |             | II         | <b></b> -↓      | 798.4    |                                         |
| Residual Tank  | 4/14/2020                |              |              |              | 149.9          | 151.9          | -1.3        | 132.3          |                                                  |                                                  |              |                |                |                |            |                |              |             | Ш          | $\vdash$        | 132.3    | 9,006.5                                 |
| Pump off #15   | 5/7/2020                 | 798.4        | 783.1        | -1.9         | 150.3          | 145.8          | 3.0         | 143.4          | 148.0                                            | 153.1                                            | -3.4         | 149.4          | 145.2          | 142.1          | 2.1        | 138.7          |              |             | 1          | ı               | 707.7    | 0.744.2                                 |
| Pump off #16   | 5/8/2020<br>5/28/2020    | 598.8        | 583.3        | -2.7         | 147.2<br>142.1 | 149.4<br>140.3 | -1.5<br>1.3 | 147.6<br>137.5 | 131.7                                            | 131.2                                            | 0.4          | 128.6          |                |                |            |                |              |             | H          | $\vdash$        | 707.7    | 9,714.2                                 |
| rump on #10    | 5/29/2020                | 330.0        | 363.3        | -2.7         | 138.0          | 138.5          | -0.4        | 134.1          | 135.1                                            | 134.8                                            | 0.2          | 131.7          | 115.0          | 116.6          | -1.4       | 109.7          |              |             | 1          | ı               | 513.0    | 10,227.2                                |
| Pumpoff #17    | 7/8/2020                 | 970.1        | 956.3        | 1.4          | 150.0          | 150.5          | 0.1         | 10 111         | 100.1                                            | 15 1.0                                           | 0.2          | 101.7          | 115.0          | 110.0          | 1. 1       | 103.7          |              |             |            |                 | 515.0    | TOJELTIE                                |
|                | 7/9/2020                 |              |              |              | 149.1          | 149.9          | -0.5        | 146.8          | 148.8                                            | 145.5                                            | 2.2          | 142.5          | 149.2          | 149.9          | -0.5       | 146.8          |              |             | 1          | ı               |          |                                         |
|                | 7/10/2020                |              |              |              | 150.7          | 149.6          | 0.7         | 146.6          | 137.1                                            | 138.0                                            | -0.7         | 135.2          | 119.9          | 119.0          | 0.8        | 116.5          |              |             |            |                 | 834.4    | 11,061.4                                |
| Pumpoff #18    | 7/22/2020                | 658.4        | 642.6        | -2.5         |                |                |             |                |                                                  |                                                  |              |                |                |                |            |                |              |             |            |                 |          |                                         |
|                | 7/27/2020                |              |              |              | 129.9          | 129.9          | 0.0         | 127.8          | 140.6                                            | 140.6                                            | 0.0          | 137.7          | 138.2          | 138.2          | 0.0        | 135.7          | 139.8        | 139.8       | 0.0        | 137.5           |          |                                         |
|                | 7/28/2020                |              |              | <b> </b>     | 66.0           | 66.0           | 0.0         | 62.8           | <b> </b>                                         | ļ                                                | l- <u></u> - | <b></b>        |                |                |            |                |              |             | <b> </b> - | <b></b> -       | 601.5    | 11,663.1                                |
| Residual Tank  | 7/28/2020                | 001.6        | 000.4        | 4.7          | 120.2          | 120.2          | 0.0         | 125.6          | 113                                              | 113                                              | 0.0          | 110.7          |                |                |            |                |              |             | $\vdash$   | -               | 110.7    | 11,773.8                                |
| Pumpoff #19    | 9/1/2020<br>9/2/2020     | 901.6        | 886.4        | -1.7         | 128.2<br>131.2 | 128.2<br>131.2 | 0.0         | 125.6<br>128.3 | 135.5<br>136.8                                   | 135.5<br>136.8                                   | 0.0          | 132.6<br>134.0 | 134.8          | 134.8          | 0.0        | 132.0          | 135.9        | 135.9       | 0.0        | 133.0           | 785.5    | 12,559.3                                |
|                | 3/2/2020                 |              |              |              | 131.2          | 131.2          | 0.0         | 120.3          | 130.6                                            | 130.6                                            | 0.0          | 134.0          | 134.0          | 134.0          | 0.0        | 132.0          | 133.5        | 133.5       | 0.0        | 133.0           | 783.3    | 12,333.3                                |
| Pumpoff #20    | 9/29/2020                | 464.2        | 450.9        | -2.9         | 144.0          | 140.0          | 2.8         | 137.9          | 143.5                                            | 140.0                                            | 2.4          | 137.9          |                |                |            |                |              |             |            |                 | -        |                                         |
| L              | 9/30/2020                | <u> </u>     | L            | <u> </u>     | 85.7           | 83.0           | 3.2         | 81.6           | <u> </u>                                         | L                                                | L            | <u>L</u>       | <u> </u>       | L              |            |                | <u> </u>     |             | L          |                 | 357.4    | 12,916.7                                |
| Residual Tank  | 10/1/2020                |              |              |              | 136.5          | 131.0          | 4.0         | 128.6          |                                                  |                                                  |              |                |                |                |            |                |              |             |            |                 | 128.6    | 13,045.3                                |
| Pumpoff #21    | 10/15/2020               | 620.9        | 610.1        | -1.8         | 139.0          | 139.0          | 0.0         | 130.8          | 145.3                                            | 145.0                                            | 0.2          | 142.1          | ]              |                |            |                |              | ·           | ı J        | ı Ţ             | ı Ţ      | 1                                       |
|                | 10/16/2020               |              |              |              | 147.2          | 144.0          | 2.2         | 142.5          | 136.0                                            | 135.0                                            | 0.7          | 132.9          | L              |                | H          |                |              |             | ш          | igwdow          | 548.3    | 13,593.6                                |
| Pumpoff #22    | 11/16/2020               | 685.6        | 673.2        | -1.8         | 146.5          | 143.0          | 2.4         | 139.7          | 143.4                                            | 142.0                                            | 1.0          | 140.1          | 146.4          | 140.0          | 4.4        | 128.3          |              |             | ı l        | ,               | F22.4    | 14.436.0                                |
| Pumpoff #23    | 11/17/2020<br>12/30/2020 | 781.7        | 784.3        | 0.3          | 133.2<br>146.1 | 130.0<br>140.0 | 2.4<br>4.2  | 124.3<br>137.3 | 146.8                                            | 140.0                                            | 4.6          | 138.6          | 145.2          | 137.0          | 5.6        | 133.9          |              |             | $\vdash$   | $\overline{}$   | 532.4    | 14,126.0                                |
| rumpon #23     | 12/30/2020               | /01./        | 704.3        | 0.5          | 146.1<br>145.3 | 140.0          | 3.0         | 137.3          | 146.8<br>113.9                                   | 140.0<br>111.0                                   | 2.5          | 138.6          | 145.2          | 137.0          | ٥.د        | 133.9          |              |             |            | ,               | 655.4    | 14,781.4                                |
| Pumpoff # 24   | 1/27/2021                | 676.5        | 663.9        | -1.9         | 123.9          | *              | *           | *              | 113.3                                            | 111.0                                            | -:-          | 207.2          |                |                | H          |                |              |             | $\sqcap$   | $\neg$          | 555.4    | 1.,/01.4                                |
|                | 1/28/2021                |              |              |              | 141.0          | *              | *           | *              | 140.2                                            | 140.0                                            | 0.1          | 137.7          | 146.8          |                | *          | *              |              |             | 1          | , ,             | , ,      |                                         |
| L              | 2/19/2021                | <u> </u>     | L            |              | 146.0          | 135.0          | 7.5         | 133.7          | 150.7                                            | 141.0                                            | 6.4          | 139.0          | 115.3          | 112.0          | 2.9        | 107.05         | <u> </u>     |             | L          |                 | 517.5    | 15,298.9                                |
| Residual Tank  | 2/20/2021                |              |              |              | 100.9          | 101.5          | -0.6        | 96.0           |                                                  |                                                  |              |                |                |                |            |                |              |             |            |                 | 96.0     | 15,394.9                                |
| Pumpoff #25    | 3/8/2021                 | 759.7        | 738.1        | -2.9         | 144.6          | 143.0          | 1.1         | 140.9          | 146.5                                            | 143.0                                            | 2.4          |                | 146.0          | 140.0          | 4.1        | 137.4          |              |             | 1          | , ,             | 624.7    | 16,019.5                                |
|                | 3/9/2021                 |              |              |              | 144.1          | 140            | 2.8         | 133.9          | 77.3                                             | 75.0                                             | 3.0          | 70.8           |                |                | Ш          |                |              |             | ш          | لـــــــا       | ,——      |                                         |
| Pumpoff #26-27 | 4/21/2021                | 498.2        | 472.6        | -5.4         | 143.7          | 136.2          | 5.2         | 134.8          | 142.6                                            | 138.6                                            | 2.8          | 137.2          | 444.4          | 143.0          | 1.         | 130.0          |              |             | 1          | , ,             | , ,      |                                         |
|                | 4/22/2021<br>4/23/2021   | 553.0        | 544.3        | -1.6         | 123.5          | 129.7          | -5.0        | 128.0          | 146.4<br>111.4                                   | 146.7                                            | -0.2<br>2.1  |                | 144.1          | 142.0          | 1.5        | 139.9          |              |             |            | ,               | 792.8    | 16,812.3                                |
| Residual Tank  | 4/23/2021                | <del> </del> | <del> </del> | <del> </del> | 132.5          | 131            | 1.1         | 127.0          | 111.4                                            | 109.1                                            | 2.1          | 100.3          | <del> </del> - | <u> </u>       | ├          |                |              |             | i+         | <sub></sub>     | 127.0    | 16,939.3                                |
| Pumpoff #28    | 5/26/2021                | 716.0        | 706.1        | -1.4         | 132.3          | 131            | 1.1         | 12/.0          | <del>                                     </del> | <del>                                     </del> |              | 1              |                |                | H          |                |              |             | $\vdash$   | $\dashv$        | 12/.0    | 10,939.3                                |
| . upuii #20    | 5/27/2021                | , 10.0       | .50.1        | 1.7          | 144.5          | 140.6          | 2.7         | 136.3          | 141.1                                            | 139.0                                            | 1.5          | 136.6          | 143.3          | 140.4          | 2          | 137.9          |              |             | 1          | ,               | 565.2    | 17,504.5                                |
|                | 5/28/2021                |              |              |              | 81.1           | 78.0           | 3.8         | 76.1           | 88.7                                             | 82.0                                             | 7.6          | 78.3           | 5.5            |                | -          |                |              |             | ı l        | ,               |          | ,505                                    |
|                | 7/14/2021                |              |              |              |                |                |             |                |                                                  |                                                  |              |                |                |                |            |                |              |             | П          |                 |          |                                         |
| D (1,120       | 7/15/2021                | 648.0        | 631.7        | -2.6         | 114.7          | 115.3          | -0.5        | 113.8          | 150.8                                            | 149.0                                            | 1.2          | 145.9          | 119.8          | 120.2          | -0.3       | 118.5          | 155.3        | 151.7       | 2.3        | 149.2           | 527.4    | 18,031.9                                |
| Pumpoff #29    |                          |              |              |              |                |                |             |                |                                                  |                                                  |              |                |                |                |            |                |              |             |            |                 |          |                                         |
|                | 7/16/2021                |              |              |              |                |                |             |                | <u> </u>                                         |                                                  |              |                |                |                |            |                |              |             | Щ          |                 | <u> </u> |                                         |
| Pumpoff #30    |                          | 763.0        | 750.2        | -1.7         | 115.3<br>118.5 | 115.0<br>118.0 | 0.3         | 112.9<br>115.5 | 112.6<br>118.4                                   | 111.0<br>117.0                                   | 1.4          | 109.0<br>114.2 | 106.8<br>124.3 | 105.0<br>123.0 | 1.7<br>1.0 | 103.2<br>118.6 |              |             | H          |                 | 673.4    | 18705.3                                 |

#### Oil Tally Contd.

|               |            |             |             |      | Truck 1      |             |      |       | Truck 2      |             |      |       | Truck 3      |             |      |       | Truck 4      |             |                                        |       |       | Running |
|---------------|------------|-------------|-------------|------|--------------|-------------|------|-------|--------------|-------------|------|-------|--------------|-------------|------|-------|--------------|-------------|----------------------------------------|-------|-------|---------|
| Oil Tally     | Date       | Total Eluid | Total Fluid |      | Total Fluids | Total Fluid |      | 1     | Total Fluids | Total Fluid | 1    |       | Total Fluids | Total Fluid | 1    |       | Total Fluids | Total Fluid | 1                                      |       | Total | Total   |
| Oli Tally     | Date       | Transfer    | Frac        | %    | to Acadiana  | at          | %    | Net   | to Acadiana  | at          | %    | Net   | to Acadiana  | at          | %    | Net   | to Acadiana  | at          | %                                      | Net   | Net   | Net     |
|               |            | by          | Tank Strap  | 76   | NRC Frac     | Acadiana    | /0   | INCL  | NRC Frac     | Acadiana    | /6   | INCL  | NRC Frac     | Acadiana    | /6   | IVEL  | NRC Frac     | Acadiana    | /0                                     | ivet  | INCL  | Net     |
|               |            | Legends     | by NRC      | Diff | Strap        | by strap    | Diff | Oil   | Strap        | by strap    | Diff | Oil   | Strap        | by strap    | Diff | Oil   | Strap        | by strap    | Diff                                   | Oil   | Oil   | Oil     |
|               |            | (bbl)       | (bbl)       | DIII | (bbl)        | (bbl)       | Dill | (bbl) | (bbl)        | (bbl)       | Dill | (bbl) | (bbl)        | (bbl)       | Dill | (bbl) | (bbl)        | (bbl)       | Dill                                   | (bbl) | (bbl) | (bbl)   |
| Pumpoff #31   | 9/23/2021  | 616.2       | 598.4       | -3.0 | 145.6        | 141.6       | 2.7  | 140.0 | 142.9        | 142.9       | 0.0  | 141.8 | (551)        | (661)       |      | (551) | (551)        | (001)       |                                        | (551) | 530.8 | 19236.1 |
| Tumpon #31    | 9/24/2021  | 010.2       | 330.4       | 3.0  | 126.3        | 123.1       | 2.5  | 119.8 | 138.7        | 134.3       | 3.2  | 129.2 |              |             |      |       |              |             |                                        |       | 330.0 | 15250.1 |
| Pumpoff #32   | 11/3/2021  | 952.4       | 937.1       | -1.6 | 147.8        | 147.0       | 0.5  | 145.5 | 148.7        | 148.0       | 0.5  | 146.0 |              |             |      |       |              |             |                                        |       |       |         |
| rumpon #32    | 11/4/2021  | 332.4       | 337.1       | 1.0  | 152.5        | 149.0       | 2.3  | 147.0 | 154.6        | 145.0       | 6.2  | 142.2 |              |             |      |       |              |             |                                        |       |       | ı       |
|               | 11/5/2021  |             |             |      | 150.2        | 147.0       | 2.1  | 144.8 | 15 1.0       | 115.0       | 0.2  | 112.2 |              |             |      |       |              |             |                                        |       |       | 1       |
|               | 11/9/2021  |             |             |      | 118.8        | 117.0       | 1.5  | 115.4 |              |             |      |       |              |             |      |       |              |             |                                        |       | 840.9 | 20077.0 |
| Pumpoff #33   | 11/30/2021 | 787.9       | 786.2       | -0.2 | 142.9        | 140.5       | 1.7  | 139.5 | 144.0        | 140.9       | 2.2  | 139.9 | 149.6        | 145.3       | 2.9  | 143.6 |              |             |                                        |       |       |         |
|               | 12/1/2021  |             |             |      | 141.5        | 138.5       | 2.1  | 137.8 | 130.9        | 128.0       | 2.2  | 127.2 |              |             |      |       |              |             |                                        |       | 688.0 | 20765.0 |
| Pumpoff #34   | 1/6/2022   | 686.6       | 673.8       | -1.9 | 149.6        | 140.5       | 6.1  | 138.9 | 144.0        | 148.3       | -3.0 | 146.1 | 152.3        | 148.5       |      | 147.2 |              |             |                                        |       |       |         |
|               | 1/7/2022   |             |             |      | 86.4         | 87.0        | -0.7 | 86.3  |              |             |      |       |              |             |      |       |              |             |                                        |       | 518.5 | 21283.5 |
| Pumpoff #35   | 2/16/2022  | 564.2       | 551.9       | -2.2 | 144.1        | 144.0       | 0.1  | 142.7 | 140.2        | 136.2       | 2.9  | 140.2 |              |             |      |       |              |             |                                        |       |       |         |
|               |            |             |             |      | 125.5        | 120.0       | 4.4  | 118.3 | 121.8        | 114.6       | 5.9  |       |              |             |      |       |              |             |                                        |       | 513.5 |         |
| Residual Tank |            |             |             |      | 94.0         | 88.0        | 6.4  | 70.1  |              |             |      |       |              |             |      |       |              |             |                                        |       | 70.1  | 21867.1 |
| Pumpoff #36   | 3/23/2022  | 690.7       | 678.5       | -1.8 | 152.5        | 148.3       | 2.8  | 147.4 | 152.7        | 147.9       | 3.1  | 145.8 |              |             |      |       |              |             |                                        |       |       |         |
| ·             | 3/24/2022  |             |             |      | 148.0        | 142.1       | 4.0  | 141.1 | 157.6        | 150.0       | 4.8  | 144.6 |              |             |      |       |              |             |                                        |       | 578.9 | 22446.0 |
| Pumpoff #37   | 5/4/2022   | 882.7       | 868.2       | -1.7 | 146.0        | 144.0       | 1.4  | 141.4 | 151.5        | 146.6       | 3.2  | 143.9 | 156.2        | 153.0       | 2.0  | 150.8 |              |             |                                        |       |       |         |
| ·             | 5/6/2022   |             |             |      | 145.7        | 142.4       | 2.3  | 141.3 | 127.3        | 125.0       | 1.8  | 123.7 | 70.4         | 68.3        | 3.0  | 67.4  |              |             |                                        |       | 768.5 | 23214.5 |
| Pumpoff #38   | 6/1/2022   | 685.4       | 674.0       | -1.7 | 145.2        | 142.0       | 2.2  | 139.9 | 150.3        | 146.7       | 2.4  | 144.6 |              |             |      |       |              |             |                                        |       |       |         |
| ·             | 6/2/2022   |             |             |      | 140.2        | 135.0       | 3.7  | 128.1 | 136.6        | 132.6       | 2.9  | 130.4 |              |             |      |       |              |             |                                        |       | 543.0 | 23757.5 |
| Pumpoff #39   | 6/29/2022  | 545.5       | 539.3       | -1.3 | 145.7        | 136.9       | 6.0  | 134.1 | 143.6        | 140.7       | 2.0  | 137.7 |              |             |      |       |              |             |                                        |       |       |         |
| ·             | 6/30/2022  |             |             |      | 142.0        | 139.5       | 1.8  | 136.7 | 49.8         | 49.0        | 1.6  | 46.6  |              |             |      |       |              |             |                                        |       | 455.1 | 24212.6 |
| Pumpoff #40   | 7/28/2022  | 707.2       | 702.1       | -0.7 | 139.1        | 137.0       | 1.5  | 134.4 | 144.9        | 140.7       | 2.9  | 137.6 | 135.9        | 133.2       | 2.0  | 130.2 |              |             |                                        |       |       |         |
| •             | 7/29/2022  |             |             |      | 141.8        | 138.1       | 2.6  | 135.2 | 86.8         | 83.3        | 4.0  | 81.8  |              |             |      |       |              |             |                                        |       | 619.2 | 24831.8 |
| Pumpoff #41   | 8/26/2022  | 461.4       | 459.8       | -0.3 | 149.6        | 146.2       | 2.3  | 143.8 |              |             |      |       |              |             |      |       |              |             |                                        |       |       |         |
|               | 8/29/2022  |             |             |      | 149.9        | 146.6       | 2.2  | 144.0 | 106.3        | 102.1       | 4.0  | 99.8  |              |             |      |       |              |             |                                        |       | 387.6 | 25219.4 |
| Pumpoff #42   | 9/20/2022  | 565.9       | 563.9       | -0.4 | 151.5        | 147.6       | 2.6  | 144.6 |              |             |      |       |              |             |      |       |              |             |                                        |       |       |         |
|               | 9/21/2022  |             |             |      | 151.9        | 149.9       | 1.3  | 146.9 | 153.7        | 153.0       | 0.5  | 150.0 | 75.0         | 75.0        | 0.0  | 73.4  |              |             |                                        |       | 514.9 | 25734.3 |
| Residual Tank | 9/21/2022  | T           |             |      | 74.2         | 70.5        | 5.0  | 69.0  | 86.5         | 86.0        | 0.6  | 68.0  | T            | [           | Ī    |       |              |             |                                        |       | 137.0 | 25871.3 |
| Pumpoff #43   | 10/26/2022 | 577.3       | 581.8       | 0.8  | 143.8        | 139.5       | 3.0  | 137.5 | 145.6        | 143.4       | 1.5  | 141.5 |              |             |      |       |              |             |                                        |       |       |         |
|               | 10/27/2022 |             |             |      | 146.6        | 141.4       | 3.5  | 139.4 | 83.9         | 81.3        | 3.1  | 80.2  |              |             |      |       |              |             |                                        |       | 498.6 | 26369.9 |
| Pumpoff #44   | 11/22/2022 | 583.2       | 580.2       | -0.5 | 138.3        | 127.6       | 7.7  | 126.5 | 132.4        | 137.7       | -4.0 | 136.5 |              |             |      |       |              |             |                                        |       |       |         |
|               | 11/23/2022 |             |             |      | 148.0        | 140.4       | 5.1  | 138.7 | 133.2        | 129.6       | 2.7  | 128.5 |              |             |      |       |              |             |                                        |       | 530.2 | 26900.1 |
| Pumpoff #45   | 12/20/2022 | 625.5       | 621.7       | -0.6 | 144.9        | 140.0       | 3.4  | 137.0 | 150.3        | 140.0       | 6.9  | 137.0 | 149.5        | 141.0       | 5.7  | 138.0 |              |             |                                        |       |       | . 7     |
|               | 12/21/2022 | <u> </u>    |             |      | 145.7        | 140.0       | 3.9  | 137.0 | <u> </u>     | L           |      | L     | <u> </u>     | L           | L    |       |              |             |                                        | L     | 549.0 | 27449.1 |
| Residual Tank | 12/21/2022 |             |             |      | 62.5         | 62.7        | -0.3 | 61.4  |              |             |      |       |              |             |      |       |              |             | ــــــــــــــــــــــــــــــــــــــ |       | 61.4  | 27510.5 |
| Pumpoff #46   | 1/26/2023  | 719.7       | 709.7       | -1.4 | 137.9        | 137.9       | 0.0  | 137.0 | 132.9        | 128.8       | 3.1  |       | 124.3        | 120.1       | 3.4  | 119.2 |              |             |                                        |       |       |         |
|               | 1/27/2023  |             |             |      | 135.2        | 131.9       | 2.4  | 131.1 | 102.5        | 109.0       | -6.3 | 103.3 |              |             |      |       |              |             |                                        |       | 618.4 | 28128.9 |
| Pumpoff #47   | 2/23/2023  | 576.8       | 578.6       | 0.3  | 110.7        | 106.0       | 4.2  | 103.6 | 145.7        | 145.0       | 0.5  | 141.7 |              |             | l _  |       |              |             |                                        |       |       | ı 7     |
|               | 2/24/2023  |             |             |      | 139.8        | 139.0       | 0.6  | 135.7 | 122.3        | 117.0       | 4.3  | 114.2 |              |             |      |       |              |             |                                        |       | 495.2 | 28624.1 |
| Pumpoff #48   | 3/28/2023  | 612.4       | 607.8       | -0.8 | 141.8        | 140.0       | 1.3  | 138.4 | 136.7        | 132.0       | 3.4  | 129.8 |              |             |      |       |              |             |                                        |       |       |         |
|               | 3/29/2023  |             |             |      | 149.1        | 145.0       | 2.7  | 143.9 | 136.4        | 135.0       | 1.0  | 133.9 |              |             |      |       |              |             |                                        |       | 546.0 | 29170.1 |
| Pumpoff #49   | 5/10/2023  | 651.9       | 647.4       | -0.7 | 147.2        | 146.1       | 0.7  | 144.8 | 157.3        | 151.0       | 4.0  | 149.2 |              |             |      |       |              |             |                                        |       |       |         |
|               | 5/11/2023  |             |             |      | 150.8        | 150.0       | 0.5  | 148.2 | 155.7        | 152.0       | 2.4  | 150.0 |              |             |      |       |              |             |                                        |       | 592.2 | 29762.3 |
| Pumpoff #50   | 6/6/2023   | 756.6       | 740.4       | -2.2 | 141.3        | 140.0       | 0.9  | 138.1 | 155.4        | 145.0       | 4.7  | 143.0 | 152.3        | 142.0       | 6.8  | 140.0 |              |             |                                        |       |       | 1       |
|               | 6/7/2023   |             |             |      | 147.2        | 140.0       | 4.9  | 138.3 | 101.7        | 100.7       | 1.0  | 97.8  |              |             |      |       |              |             |                                        |       | 657.2 | 30419.5 |

#### **Total Fluid Reconciliation**

|                                         |                          |                            |                            | Truck 1            | Truck 2            | Truck 3           | Truck 4            |               |                      |         |
|-----------------------------------------|--------------------------|----------------------------|----------------------------|--------------------|--------------------|-------------------|--------------------|---------------|----------------------|---------|
|                                         |                          | Total Fluid                | Water Decanted             | Total Fluids       | Total Fluids       | Total Fluids      | Total Fluids       | Residual      | Total of Fluid       |         |
|                                         |                          | Frac Tank Strap            | From Frac Tank             | to Acadiana<br>NRC | to Acadiana<br>NRC | to Acadiana       | to Acadiana<br>NRC | left in       | From Trucks,         |         |
|                                         |                          | at Port Fourchon<br>by NRC | Using Strap<br>Measurement | Frac Strap         | Frac Strap         | NRC<br>Frac Strap | Frac Strap         | Frac<br>Tanks | Residual &<br>Decant | %       |
|                                         | Date                     | (bbl)                      | (bbl)                      | (bbl)              | (bbl)              | (bbl)             | (bbl)              | (bbl)         | (bbl)                | Diff    |
| Pump Off #1                             | 4/26/2019<br>5/6/2019    | 215.7                      | 0.0                        | 113.7              | 97.0               | 0.0               | 0.0                | 5.2           | 215.9                | 0.1     |
| Pump Off #2                             | 5/3/2019                 | 223.5                      | 15.6                       |                    |                    |                   |                    |               |                      |         |
| Pump Off #3                             | 5/8/2019<br>5/13/2019    | 331.2                      | 0.0                        | 101.3              | 82.8               | 0.0               | 0.0                | 17.6          | 217.3                | -2.8    |
|                                         | 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<br>137.7     | 138.7              | 0.0               | 0.0                |               | 310.6                |         |
|                                         | 6/20/2019<br>6/21/2019   |                            |                            | 48.5               | 140.7<br>0.0       | 140.6<br>0.0      | 144.1<br>0.0       | 0.6           | 563.1<br>49.1        |         |
|                                         | PO4: Total               |                            |                            | 10.5               | 0.0                | 0.0               | 0.0                | 0.0           | 922.8                | -1.8    |
| Pump Off #5                             | 7/31/2019                | 1196.6                     | 96.3                       | 139.2              | 142.7              |                   |                    |               | 281.9                |         |
|                                         | 8/1/2019                 |                            |                            | 139.1              | 140.7              | 146.0             | 138.0              | 45.2          | 563.8                | 0.7     |
|                                         | 8/2/2019<br>PO5: Total   |                            |                            | 99.8               | 101.0              |                   |                    | 45.2          | 246.0<br>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               |                            |                            | ļ                  |                    |                   |                    | *             | 877.2                | 0.3     |
| Pump Off #7                             | 9/23/2019<br>9/24/2019   | 880.4                      | 41.3                       | 138.0<br>144.4     | 144.3<br>143.7     | 142.6<br>55.3     |                    | 55.3          | 466.2<br>398.7       |         |
|                                         | 9/24/2019<br>P07: Total  |                            |                            | 144.4              | 145.7              | 33.3              |                    | *             | 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              |                   | <b> </b>           |               | 267.7                | <b></b> |
| Residual Tank                           | 10/23/2019<br>PO8: Total | 205.1                      | 53.5                       |                    |                    | 125.4             |                    | 66.4          | 245.3<br>982.4       | -1.0    |
| Pump Off #9                             | 11/19/2019               |                            | 32.0                       | 142.3              | 143.8              | 145.3             |                    |               | 463.4                |         |
|                                         | 11/20/2019               | 757.8                      |                            | 145.6              | 92.1               |                   |                    | 55.6          | 293.3                |         |
|                                         | PO9: Total               |                            |                            |                    |                    |                   |                    |               | 756.7                | -0.1    |
| Pump Off #10                            | 12/17/2019<br>12/18/2019 | 942.8                      | 33.4                       | 142.0<br>146.4     | 71.4<br>144.3      | 146.4<br>144.0    | 47.4               | 73.9          | 393.2<br>556.0       |         |
|                                         | PO10: Total              |                            |                            | 140.4              | 144.5              | 144.0             | 47.4               | 73.3          | 949.2                | 0.7     |
| Pump Off #11                            | 1/9/2020                 | 691.0                      | 39.2                       | 128.7              | 128.0              | 129.8             |                    | 72.7          | 498.4                |         |
|                                         | 1/10/2020                |                            |                            | 79.4               | 92.6               | <br>              |                    |               | 172.0                | ļ       |
| Residual Tank                           | 1/8/2020<br>PO11: Total  | 307.0                      | 81.5                       | 141.9              |                    |                   |                    | 121.7         | 345.1<br>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              |                    | 07.5          | 324.6                |         |
|                                         | 2/13/2020<br>PO12: Total |                            | 3.9                        | 149.5              | 114.2              |                   |                    | 87.5<br>*     | 355.1<br>728.8       | 0.9     |
| Residual tank                           | 2/17/2020                | 265.8                      | 93.6                       | 108.2              | 1                  |                   |                    |               | 201.8                |         |
|                                         | 2/18/2020                |                            | 23.5                       |                    |                    |                   |                    | 121.7         | 145.2                | 1.0     |
| Pumpoff #13                             | Resid Total<br>3/11/2020 | 570.2                      | 39.6                       |                    |                    |                   |                    |               | 347<br>39.6          | -1.8    |
| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 3/12/2020                |                            | 2.8                        | 114.5              | 138.3              |                   |                    |               | 255.6                |         |
|                                         | 3/13/2020                |                            |                            | 93.6               | 120.0              |                   |                    | 63.7          | 277.3<br>572.5       | 0.4     |
| Pumpoff #14                             | PO13: Total<br>4/15/2020 | 928.8                      | 55.1                       |                    |                    |                   |                    |               | 55.1                 | 0.4     |
| , ,                                     | 4/16/2020                |                            |                            | 147.2              | 145.2              | 148               |                    |               | 440.4                |         |
|                                         | 4/17/2020<br>PO14:Total  |                            |                            | 144.9              | 144.1              | 87.4              |                    | 65.4          | 441.8<br>937.3       | 0.9     |
| Residual tank                           | 4/13/2020                | 244.1                      | 67.6                       | -†                 | <del> </del>       |                   | \                  |               | 67.6                 | 0.5     |
|                                         | 4/14/2020                |                            |                            | 149.9              |                    |                   |                    | 26.6          | 176.5                |         |
| Pumpoff #15                             | 5/6/2020                 | 783.1                      | 18.3                       |                    |                    |                   |                    |               | 244.1<br>18.3        | 0.0     |
| 1 dilipoli #15                          | 5/7/2020                 | 765.1                      | 1.2                        | 150.3              | 148.0              | 145.2             |                    |               | 444.7                |         |
|                                         | 5/8/2020                 |                            |                            | 147.2              | 131.7              |                   |                    | 40.0          | 318.9                |         |
| Pumpoff #16                             | PO15: Total<br>5/27/2020 | 583.3                      | 25.3                       |                    |                    |                   |                    |               | 781.9<br>25.3        | -0.2    |
| r umpon #10                             | 5/28/2020                | 363.3                      | 25.5                       | 142.1              |                    |                   |                    |               | 142.1                |         |
|                                         | 5/29/2020                |                            |                            | 138.0              | 135.1              | 115.0             |                    | 27.8          | 415.9                |         |
| Residual tank                           | PO16: Total<br>5/27/2020 |                            | 67.2                       |                    | <del> </del>       | <del> </del>      | <del> </del>       | 153.6         | 583.3                | 0.0     |
| Pumpoff #17                             | 7/8/2020                 | 956.3                      | 23.6                       | 1                  |                    |                   |                    | 100.0         | 23.6                 |         |
|                                         | 7/9/2020                 |                            | 2.4                        | 149.1              | 148.8              | 149.2             |                    |               | 449.5                |         |
|                                         | 7/10/2020<br>PO17: Total |                            |                            | 150.7              | 137.1              | 119.9             |                    | 63.3          | 471<br>944.1         | -1.3    |
| Pumpoff #18                             | 7/22/2020                | 642.6                      | 14.3                       | 1                  |                    |                   |                    |               | J+4.1                | -1.3    |
|                                         | 7/27/2020                |                            |                            | 129.9              | 140.6              | 138.2             | 139.8              | 0.0           |                      |         |
| Residual Tank                           | 7/28/2020<br>7/22/2020   | 299.6                      | 13.6<br>67.2               | 66.0               | <del> </del>       | <b></b>           | <del> </del>       | <b> </b>      | 642.4                | 0.0     |
| Nesidual Talik                          | 7/22/2020 7/28/2020      | 233.0                      | 31.3                       | 113.0              |                    |                   |                    | 84.5          | 296.0                | -1.2    |
| Pumpoff #19                             | 9/1/2020                 | 886.4                      | 7.8                        | 128.2              | 135.5              | 40                | 40:-               |               |                      |         |
| Residual Tank                           | 9/2/2020<br>8/31/2020    | 292.6                      | 102.9                      | 131.2              | 135.9              | 135.9             | 134.8              | 76.2<br>189.7 | 885.5<br>189.7       | -0.1    |
| nesiduai Tatik                          | 0/ 21/ 2020              | 232.0                      | 102.3                      | 1                  | 1                  | i                 | 1                  | 105.7         | 105.7                | 1       |

#### **Total Fluid Reconciliation Contd.**

|                 |                          |                  |                | Truck 1        | Truck 2        | Truck 3      | Truck 4      |               |                |             |
|-----------------|--------------------------|------------------|----------------|----------------|----------------|--------------|--------------|---------------|----------------|-------------|
|                 |                          | Total Fluid      | Water Decanted | Total Fluids   | Total Fluids   | Total Fluids | Total Fluids | Residual      | Total of Fluid |             |
|                 |                          | Frac Tank Strap  | From Frac Tank | to Acadiana    | to Acadiana    | to Acadiana  | to Acadiana  | left in       | From Trucks,   |             |
|                 |                          | at Port Fourchon | Using Strap    | NRC            | NRC            | NRC          | NRC          | Frac          | Residual &     |             |
|                 |                          | by NRC           | Measurement    | Frac Strap     | Frac Strap     | Frac Strap   | Frac Strap   | Tanks         | Decant         | %           |
| Pumpoff #20     | Date<br>9/29/2020        | (bbl)<br>450 9   | (bbl)<br>52.9  | (bbl)<br>144.0 | (bbl)<br>143.5 | (bbl)        | (bbl)        | (bbl)<br>24.8 | (bbl)<br>450 9 | Diff<br>0.0 |
| Fullipoli #20   | 9/30/2020                | 430 9            | 32.5           | 85.7           | 143.3          |              |              | 24.0          | 430 9          | 0.0         |
| Residual Tank   | 9/30/2020                | 273 2            | 116.1          |                | †              |              | <del> </del> |               |                |             |
|                 | 10/1/2020                |                  | 2.7            | 136.5          |                |              |              | 17.9          | 273 2          | 0.0         |
| Pumpoff #21     | 10/15/2020               | 610.1            | 14.0           | 139.0          | 145.3          |              |              |               |                |             |
|                 | 10/16/2020               |                  |                | 147.2          | 136.0          |              |              | 28.6          | 610.1          | 0.0         |
| Residual Tank   | 10/14/2020               | 293.4            | 111.8          |                |                |              |              | 49.5          | 293.4          | 0.0         |
| Pumpoff #22     | 10/15/2020<br>11/16/2020 | 673 2            | 132.1<br>68.7  | 146.5          | 143.4          | 146.4        |              |               |                |             |
| Pullipoli #22   | 11/16/2020               | 0/3 2            | 2.7            | 133.2          | 145.4          | 140.4        |              | 32.3          | 673 2          | 0.0         |
| Pumpoff #23     | 12/30/2020               | 784 3            | 30.3           | 146.1          | 146.8          | 145 2        |              | 52.5          | 0,02           | 0.0         |
| ·               | 12/31/2020               |                  |                | 145.3          | 113.9          |              |              | 56.7          | 784 3          | 0.0         |
|                 | 1/27/2021                | 663 9            | 23.3           |                |                |              |              |               |                |             |
| Pumpoff #24     | 1/28/2021                |                  |                | 140.2          |                |              |              |               |                |             |
| Desideral Tests | 2/19/2021                | 464.0            | 11.8           | 146.0          | 150.7          | 115 3        | <del> </del> | 68.5          | 655 8          | -12         |
| Residual Tank   | 2/20/2021                | 164 8<br>738.1   | 31.1           | 100.9          |                |              |              | 32.8          | 164 8          | 0.0         |
| Pumpoff # 25    | 3/3/2021<br>3/8/2021     | /38.1            | 26.1<br>5.7    | 144.6          | 146.5          | 146 0        |              |               |                |             |
|                 | 3/9/2021                 |                  | 5.7            | 144.1          | 77 3           | 1400         |              | 47.8          | 738.1          | 0.0         |
| Pumpoff # 26-27 |                          | 1016.9           | 73.8           |                | -              |              |              |               |                |             |
|                 | 4/20/2021                |                  | 60.2           |                |                |              |              |               |                |             |
|                 | 4/21/2021                |                  |                | 143.7          | 142.6          |              |              |               |                |             |
|                 | 4/22/2021                |                  | 6.4            | 123.5          | 146.4          | 144.1        |              | 62.2          | 1014.3         |             |
| Dacidual Taul   | 4/23/2021                | 316.0            | 0.4            | 111.4          | <del></del>    |              | <del> </del> | 22.0          |                | -0 3        |
| Residual Tank   | 4/21/2021<br>4/22/2021   | 216 9            | 9.4<br>18.2    | 132.5          |                |              |              | 23.8          |                |             |
|                 | 4/23/2021                |                  | 32.6           |                |                |              |              |               | 216 5          | -0 2        |
| Pumpoff #28     | 5/26/2021                | 706.1            | 72.5           |                |                |              |              |               |                |             |
|                 | 5/27/2021                |                  |                | 144.5          | 141.4          | 143 3        |              |               |                |             |
|                 | 5/28/2021                |                  |                | 81.1           | 88.7           |              |              | 34.6          | 706.1          | 0.0         |
| Pumpoff #29     | 7/14/2021                | 604 7            |                |                | 450.0          | 440.0        | 455.0        |               | 604 7          |             |
| Desidual Teals  | 7/15/2021                | 631.7            | 81.4           | 114.7          | 150.8          | 119 8        | 155.3        | 9.7           | 631.7          | 0.0         |
| Residual Tank   | 7/16/2021<br>7/21/2021   | 371 2            | 219.1<br>152.1 |                |                |              |              |               | 371 2          | 0.0         |
| Pumpoff #30     | 8/4/2021                 | 750 2            | 20.4           |                |                |              |              |               |                |             |
|                 | 8/5/2021                 |                  |                | 115.3          | 112.6          | 106 8        |              |               |                |             |
|                 | 8/6/2021                 |                  |                | 118.5          | 118.4          | 124 3        |              | 33.9          | 750 2          | 0.0         |
| Pumpoff #31     | 9/22/2021                | 598.4            | 16.7           |                |                |              |              |               |                |             |
|                 | 9/23/2021                |                  | 20.0           | 145.6          | 142.9          |              |              |               | 500.4          |             |
| Pumpoff #32     | 9/24/2021<br>11/3/2021   | 937.1            | 28.2<br>31.7   | 126.3<br>147.8 | 138.7<br>148.7 |              |              |               | 598.4          | 0.0         |
| Pullipuli #52   | 11/4/2021                | 957.1            | 31.7           | 152.5          | 154.6          |              |              |               |                |             |
|                 | 11/5/2021                |                  |                | 150.2          | 154.0          |              |              |               |                |             |
|                 | 11/9/2021                |                  |                | 118.8          |                |              |              | 32.0          | 936 3          | -0.1        |
| Pumpoff #33     | 11/29/2021               | 786 2            | 56.0           |                |                |              |              |               |                |             |
|                 | 11/30/2021               |                  |                | 142.9          | 144.0          | 149.6        |              |               |                |             |
| D ff 112.4      | 12/1/2021                | 672.0            | 407.4          | 141.5          | 130.9          |              |              | 21.3          | 786 2          | 0.0         |
| Pumpoff #34     | 1/5/2022<br>1/6/2022     | 673 8            | 107.1          | 149.6          | 144.0          | 152 3        |              |               |                |             |
|                 | 1/7/2022                 |                  |                | 86.4           | 144.0          | 152 5        |              | 34.2          | 673.6          | -0.6        |
| Pumpoff #35     | 2/8/2022                 | 551 9            | 6.2            |                |                |              |              | 8.3           | 555.4          |             |
| ·               | 2/15/2022                |                  | 9.3            |                |                |              |              |               |                |             |
|                 | 2/16/2022                |                  |                | 144.1          | 140.2          |              |              |               |                |             |
|                 | 2/17/2022                |                  |                | 125.5          | 121.8          |              | <b></b>      |               |                | 0.6         |
| Residual Tank   | 2/8/2022                 | 207.1            | 104.8          | 04.0           |                |              |              | C 0           | 207.1          | 0.0         |
| Pumpoff #36     | 2/17/2022<br>2/21/2022   | 678 5            | 1.5            | 94.0           |                |              |              | 6 8           | 207.1          | 0.0         |
| Tumpon 1130     | 3/18/2022                | 0,03             | 54.9           |                |                |              |              |               |                |             |
|                 | 3/23/2022                |                  | 3.1            | 152.5          | 152.7          | 1            | 1            | 31.6          | 700.4          |             |
|                 | 3/24/2022                |                  |                | 148            | 157.6          |              | <b></b>      | <b> </b>      |                | 3.1         |
| Residual Tank   | 3/18/2022                | 27.7             | 27.7           |                |                | <b></b>      | <b></b>      | 0             | 27.7           | 0.0         |
| Pumpoff #37     | 4/6/2022                 | 868 2            | 22.0           | 1              |                | 1            | 1            |               |                |             |
|                 | 4/22/2022<br>5/4/2022    |                  | 22.9<br>2.8    | 146            | 151.5          | 156 2        | 1            |               |                |             |
|                 | 5/6/2022                 |                  | 2.0            | 145.7          | 127.3          | 70.4         | 1            | 46.2          | 869 0          | 0.1         |
| Pumpoff #38     | 5/15/2022                | 674              |                |                |                | 1            | 1            |               |                |             |
| •               | 5/31/2022                |                  | 69.2           | 1              |                | 1            | 1            |               |                |             |
|                 | 6/1/2022                 |                  | 3.9            | 145.2          | 150.3          | 1            | 1            |               |                |             |
|                 | 6/2/2022                 | 505 5            | 22.5           | 140.2          | 136.6          | ļ            | ļ            | 28.6          | 674 0          | 0.0         |
| Pumpoff #39     | 6/28/2022                | 538 3            | 39.3           | 145 7          | 143.6          | 1            | 1            |               |                |             |
|                 | 6/29/2022<br>6/30/2022   |                  |                | 145.7<br>142   | 143.6<br>49 8  | 1            | 1            | 22.0          | 542.4          | 0.2         |
|                 | 0/ 20/ 2022              | ı                |                | 174            | 77.0           | 1            | 1            | 22.0          | J74.+          | U.Z         |

#### **Total Fluid Reconciliation Contd.**

|               |            |                  |                | 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 Port Fourchon | Using Strap    | NRC          | NRC          | NRC          | NRC          | Frac     | Residual &     |      |
|               |            | by NRC           | Measurement    | Frac Strap   | Frac Strap   | Frac Strap   | Frac Strap   | Tanks    | Decant         | %    |
|               | Date       | (bbl)            | (bbl)          | (bbl)        | (bbl)        | (bbl)        | (bbl)        | (bbl)    | (bbl)          | Diff |
| Pumpoff #40   | 7/27/2022  | 702.1            | 15.4           | ` '          |              | , ,          |              |          | · ·            |      |
| •             | 7/28/2022  |                  |                | 139.1        | 144.9        | 135.9        |              |          |                |      |
|               | 7/29/2022  |                  |                | 141.8        | 86.8         |              |              | 38.2     | 702.1          | 0.0  |
| Pumpoff #41   | 8/25/2022  | 459.8            | 36.5           |              |              |              |              |          |                |      |
| •             | 8/26/2022  |                  |                | 149.6        |              |              |              |          |                |      |
|               | 8/29/2022  |                  |                | 149.9        | 106.3        |              |              | 17.5     | 459.8          | 0.0  |
| Pumpoff #42   | 9/5/2022   | 563.9            | 16.6           |              |              |              |              |          |                |      |
| •             | 9/20/2022  |                  |                | 151.5        |              |              |              |          |                |      |
|               | 9/21/2022  |                  |                | 151.9        | 153.7        | 75.0         |              | 15.5     | 564.2          | 0.1  |
| Residual Tank | 9/21/2022  | 203.3            | 16.0           | 74.2         | 86.5         |              |              | 26.6     | 203.3          | 0.0  |
| Pumpoff #43   | 10/4/2022  | 581.8            | 19.5           |              |              |              |              |          |                |      |
|               | 10/26/2022 |                  |                | 143.8        | 145.6        |              |              |          |                |      |
|               | 10/27/2022 |                  |                | 146.6        | 83.9         |              |              | 42.6     | 582.0          | 0.0  |
| Pumpoff #44   | 11/5/2022  | 580.2            | 15.2           |              |              |              |              |          |                |      |
|               | 11/22/2022 |                  |                | 138.3        | 132.4        |              |              |          |                |      |
|               | 11/23/2022 |                  |                | 148.0        | 133.2        |              |              | 18.2     | 585.3          | 0.9  |
| Pumpoff #45   | 12/3/2022  | 621.7            | 18.5           |              |              |              |              |          |                |      |
|               | 12/20/2022 |                  |                | 144.9        | 150.3        | 149.5        |              |          |                |      |
|               | 12/21/2022 |                  |                | 145.7        | L            |              | 1            | 12.8     | 621.7          | 0.0  |
| Residual Tank | 12/21/2022 | 209.5            | 135.2          | 62.5         |              |              |              | 11.8     | 209.5          | 0.0  |
| Pumpoff #46   | 1/7/2023   | 709.7            | 37.6           |              |              |              |              |          |                |      |
|               | 1/26/2023  |                  |                | 137.9        | 132.9        | 124.3        |              |          |                |      |
|               | 1/27/2023  |                  |                | 135.2        | 102.5        |              |              | 39.3     | 709.7          | 0.0  |
| Pumpoff #47   | 2/2/2023   | 578.6            | 43.4           |              |              |              |              |          |                |      |
|               | 2/23/2023  |                  |                | 110.7        | 145.7        |              |              |          |                |      |
|               | 2/24/2023  |                  | 2.7            | 139.8        | 122.3        |              |              | 14.0     | 578.6          | 0.0  |
| Pumpoff #48   | 3/8/2023   | 607.8            | 22.5           |              |              |              |              |          |                |      |
|               | 3/28/2023  |                  | 2.0            | 141.8        | 136.7        |              |              |          |                |      |
|               | 3/29/2023  |                  |                | 149.1        | 136.4        |              |              | 19.3     | 607.8          | 0.0  |
| Pumpoff #49   | 4/10/2023  | 647.4            | 15.5           |              |              |              |              |          |                |      |
|               | 5/10/2023  |                  |                | 147.2        | 157.3        |              |              |          |                |      |
|               | 5/11/2023  |                  |                | 150.8        | 155.7        |              |              | 20.9     | 647.4          | 0.0  |
| Pumpoff #50   | 5/21/2023  | 740.4            | 12.9           |              |              |              |              |          |                |      |
|               | 6/6/2023   |                  |                | 141.3        | 155.4        | 152.3        |              |          |                |      |
|               | 6/7/2023   |                  |                | 147.2        | 101.7        |              |              | 29.6     | 740.4          | 0.0  |

#### **Barrels of Oil Collected Daily**

|                                        |            |            |            |          | Total      | Net       | RRS             |          |             |
|----------------------------------------|------------|------------|------------|----------|------------|-----------|-----------------|----------|-------------|
|                                        |            |            |            |          | Collection | Oil       | Collection Rate | Collecti | on Rate     |
|                                        |            | Start Time |            | End Time | Duration   | Collected | Of Oil          | of       | Oil         |
|                                        | Start Date | (hrs)      | End Date   | (hrs)    | (Days)     | (bbl)     | (bbl/day)       | (gallor  | n/day)      |
| Collection Duration for 1st Trip       | 4/12/2019  | 00:00      | 4/23/2019  | 01:05    | 11.0       | 187.4     | 17.0            | 715.7    | gallons/day |
| Collection Duration for 2nd Trip       | 4/23/2019  | 01:05      | 4/30/2019  | 21:09    | 7.9        | 181.6     | 23.0            | 965.6    | gallons/day |
| Collection Duration for 3rd Trip       | 4/30/2019  | 21:09      | 5/12/2019  | 23:20    | 12.1       | 295.7     | 24.4            | 1026.5   | gallons/day |
| Collection Duration for 4th Trip       | 5/12/2019  | 23:20      | 6/13/2019  | 17:17    | 31.5       | 850.0     | 27.0            | 1132.3   | gallons/day |
| Collection Duration for 5th Trip       | 6/13/2019  | 17:17      | 7/21/2019  | 01:40    | 37.4       | 983.7     | 26.3            | 1104.7   | gallons/day |
| Collection Duration for 6th Trip       | 7/21/2019  | 01:40      | 8/18/2019  | 03:15    | 28.6       | 757.2     | 26.5            | 1112.0   | gallons/day |
| Collection Duration for 7th Trip       | 8/18/2019  | 03:15      | 9/12/2019  | 22:30    | 25.8       | 749.2     | 29.0            | 1219.6   | gallons/day |
| Collection Duration for 8th Trip       | 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  |            | 11/10/2019 | 01:05    | 31.6       | 659.1     | 20.8*           | 875.5    | gallons/day |
| Collection Duration for 10th Trip      | 11/10/2019 | 01:05      | 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   | 02:00    | 31.3       | 456.4     | 14.6            | 612.4    | gallons/day |
| Collection Duration for 14th Trip      | 3/2/2020   | 02:00      | 4/2/2020   | 01:15    | 31.0       | 798.4     | 25.8            | 1081.7   | gallons/day |
| Collection Duration for 15th Trip      | 4/2/2020   | 01:15      | 4/25/2020  | 15:45    | 23.1       | 707.7     | 30.6            | 1286.7   | gallons/day |
| Collection Duration for 16th Trip      | 4/25/2020  |            | 5/15/2020  | 18:40    | 20.1       | 513.0     | 25.5            | 1071.0   | gallons/day |
| Collection Duration for 17th Trip      | 5/15/2020  | 18:40      | 6/18/2020  | 22:55    | 34.2       | 834.4     | 24.4            | 1024.8   | gallons/day |
| Collection Duration for 18th Trip      | 6/18/2020  | 22:55      | 7/12/2020  | 15:10    | 23.7       | 601.5     | 25.4            | 1066.8   | gallons/day |
| Collection Duration for 19th Trip      | 7/12/2020  | 15:10      | 8/13/2020  | 06:00    | 33.6       | 785.5     | 23.4            | 982.8    | gallons/day |
| Collection Duration for 20th Trip      | 8/15/2020  | 06:00      | 9/2/2020   | 13:25    | 18.3       | 357.4     | 19.5            | 819.0    | gallons/day |
| Collection Duration for 21st Trip      | 9/2/2020   | 13:25      | 10/4/2020  | 15:20    | 32.1       | 548.3     | 17.1            | 718.2    | gallons/day |
| Collection Duration for 22nd Trip      | 10/4/2020  | 15:20      | 11/3/2020  | 16:10    | 30.0       | 532.4     | 17.7            | 743.4    | gallons/day |
| Collection Duration for 23rd Trip      | 11/3/2020  | 16:10      | 12/10/2020 | 13:00    | 36.9       | 655.4     | 17.8            | 747.6    | gallons/day |
| Collection Duration for 24th Trip      | 12/10/2020 | 13:00      | 1/9/2021   | 09:15    | 29.8       | 517.5     | 17.4            | 730.8    | gallons/day |
| Collection Duration for 25th Trip      | 1/9/2021   | 09:15      | 2/21/2021  | 11:30    | 43.1       | 624.7     | 14.5            | 609.0    | gallons/day |
| Collection Duration for 26th Trip      | 2/21/2021  | 11:30      | 3/15/2021  | 22:25    | 22.4       | -         | -               |          | -           |
| Collection Duration for 27th Trip      | 3/15/2021  | 22:25      | 4/8/2021   | 12:35    | 23.6       | -         | -               |          | -           |
| Collection Duration for 26-27th        | 2/21/2021  | 11:30      | 4/8/2021   | 12:35    | 46.0       | 792.8     | 17.2            | 722.4    | gallons/day |
| Trip Collection Duration for 28th Trip | 4/8/2021   | 12:35      | 5/14/2021  | 12:14    | 36.0       | 565.2     | 15.7            | 659.4    | gallons/day |
| Collection Duraiton for 29th Trip      | 5/14/2021  | 12:14      | 6/11/2021  | 12:08    | 28.0       | 527.4     | 18.8            | 789.6    | gallons/day |
| Collection Duration for 30th Trip      | 6/11/2021  | 12:08      | 7/22/2021  | 13:38    | 41.1       | 673.4     | 16.4            | 688.8    | gallons/day |
| Collection Duration for 31st Trip      | 7/22/2021  | 13:38      | 9/4/2021   | 05:40    | 43.7       | -         | -               | -        | gallons/day |
| Collection Duration for 32nd Trip      | 9/4/2021   | 05:40      | 10/5/2021  | 15:30    | 31.4       | -         | -               | -        | gallons/day |
| Collection Duration for 31-32nd        | 3/4/2021   | 05.40      |            | 15.50    | 31.4       |           | _               |          | ganons, day |
| Trip                                   | 7/22/2021  | 13:38      | 10/5/2021  | 15:30    | 75.1       | 1371.7    | 18.3            | 768.6    | gallons/day |
| Collection Duration for 33rd Trip      | 10/5/2021  | 15:30      | 11/13/2021 | 22:29    | 39.3       | 688.0     | 17.5            | 735.0    | gallons/day |
| Collection Duration for 34th Trip      | 11/13/2021 | 22:29      | 12/14/2022 | 13:20    | 30.6       | 518.5     | 16.9            | 709.8    | gallons/day |
| Collection Duration for 35th Trip      | 12/14/2022 | 13:20      | 1/13/2022  | 23:30    | 30.4       | 513.5     | 16.9            | 709.8    | gallons/day |
| Collection Duration for 36th Trip      | 1/13/2022  | 23:30      | 2/18/2022  | 17:25    | 35.8       | 578.9     | 16.2            | 680.4    | gallons/day |
| Collection Duration for 37th Trip      | 2/18/2022  | 17:25      | 4/4/2022   | 17:56    | 45.0       | 768.5     | 17.1            | 718.2    | gallons/day |
| Collection Duration for 38th Trip      | 4/4/2022   | 17:56      | 5/11/2022  | 16:43    | 36.9       | 547.6     | 14.8            | 621.6    | gallons/day |
| Collection Duration for 39th Trip      | 5/11/2022  | 16:43      | 6/7/2022   | 15:50    | 26.9       | 455.1     | 16.9            | 709.8    | gallons/day |
| Collection Duration for 40th Trip      | 6/7/2022   | 15:50      | 7/14/2022  | 05:15    | 36.6       | 619.2     | 16.9            | 709.8    | gallons/day |
| Collection Duration for 41st Trip      | 7/14/2022  | 05:15      | 8/5/2022   | 01:45    | 21.9       | 387.6     | 17.7            | 743.4    | gallons/day |
| Collection Duration for 42nd Trip      | 8/5/2022   | 01:45      | 9/2/2022   | 14:35    | 28.5       | 514.9     | 18.1            | 760.2    | gallons/day |
| Collection Duration for 43rd Trip      | 9/2/2022   | 14:35      | 10/1/2022  | 18:16    | 29.2       | 498.6     | 17.1            | 718.2    | gallons/day |
| Collection Duration for 44th Trip      | 10/1/2022  | 18:16      | 11/2/2022  | 10:40    | 31.7       | 530.2     | 16.7            | 701.4    | gallons/day |
| Collection Duration for 45th Trip      | 11/2/2022  | 10:40      | 12/2/2022  | 02:09    | 29.6       | 549.0     | 18.5            | 777.0    | gallons/day |
| Collection Duration for 46th Trip      | 12/2/2022  | 02:09      | 1/5/2023   | 03:27    | 34.1       | 618.4     | 18.1            | 760.2    | gallons/day |
| Collection Duration for 47th Trip      | 1/5/2023   |            | 1/31/2023  | 15:01    | 26.5       | 495.2     | 18.7            | 785.4    | gallons/day |
| Collection Duration for 48th Trip      | 1/31/2023  |            | 3/5/2023   | 14:26    | 32.9       | 546.0     | 16.6            | 697.2    | gallons/day |
| Collection Duration for 49th Trip      | 3/5/2023   | 14:26      | 4/7/2023   | 17:47    | 33.1       | 592.2     | 17.9            | 751.8    | gallons/day |
| Collection Duration for 50th Trip      | 4/7/2023   |            | 5/14/2023  | 05:36    | 36.5       | 657.2     | 18.0            | 756.0    | gallons/day |

#### **Barrels of Oil Collected Per Day Since RRS Install**

|                                 |            |            |           |                 | Total      | Net       | RRS             |          |             |
|---------------------------------|------------|------------|-----------|-----------------|------------|-----------|-----------------|----------|-------------|
|                                 |            |            |           |                 | Collection | Oil       | Collection Rate | Collecti | on Rate     |
|                                 |            | Start Time |           | <b>End Time</b> | Duration   | Collected | Of Oil          | of       | Oil         |
|                                 | Start Date | (hrs)      | End Date  | (hrs)           | (Days)     | (bbl)     | (bbl/day)       | (gallor  | n/day)      |
| Average collection to date less |            |            |           |                 |            |           |                 |          |             |
| residual tank                   | 4/12/2019  | 00:00      | 5/14/2023 | 05:36           | 1493.2     | 29,196.1  | 19.6            | 823.2    | gallons/day |
| Total Collection to date        | 4/12/2019  | 00:00      | 5/14/2023 | 05:36           | 1493.2     | 30,419.5  | 20.4            | 856.8    | gallons/day |

#### **Totals from Pumpoff 1-50**

|                              | Bbl      | Gal         |
|------------------------------|----------|-------------|
| Net Oil collected            | 30,419.5 | 1,277,619.0 |
| Total Oily fluids collected: | 34,211.0 | 1,436,862.0 |

### Appendix 1

# MC20 Product Removal and Transportation with Completed Documentation





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

| Date: | 5/21/2023 |
|-------|-----------|
|       |           |

|        | Column A                                                 | Column B                                                                      | Column C                                                            | Column D                                 | Column E                             |
|--------|----------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------|--------------------------------------|
|        | Residual Tank Volume<br>From Prior<br>Operation<br>(bbl) | On Board the Vessel Tank Strap Measurement Prior to Start of Offloading (bbl) | Onshore Frac Tank<br>Strap Measurement<br>after Offloading<br>(bbl) | Volume of Fluid<br>(Column C-A)<br>(bbl) | % Difference<br>Column (D-B)/D * 100 |
| Tank 1 | 0                                                        | Port 312.7                                                                    | 244.1                                                               | (50.)                                    |                                      |
| Tank 2 | 0                                                        | Starboard 443-9                                                               | 246,8                                                               |                                          |                                      |
| Tank 3 | 0                                                        |                                                                               | 249.5                                                               |                                          |                                      |
| Total  |                                                          | 756.6                                                                         | 740-4                                                               | 740.4                                    | -2.18                                |

| Note: If the | % Difference is gr          | reater than 3% please atten | npt to explain the difference: |                 |
|--------------|-----------------------------|-----------------------------|--------------------------------|-----------------|
| Sign-off by: | USCG Rep                    | Signed Name:                | , Printed Name                 | Date: 5/21/2023 |
|              | Couvillion Rep Signed Name: |                             | Printed Name                   | Date: 5/21/2023 |
|              | Legends Rep                 | Signed Name:                | Printed Name                   | Date: 5/11/25   |
|              | NRC Rep                     | Signed Name:                | , Printed Name                 | Date: 5-21-23   |

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

| Date:   | 6-5-23                        | Time:                |  |
|---------|-------------------------------|----------------------|--|
| Time Me | asurements 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<br>Strap Measurement<br>bbl | Tank Strap<br>Measurement after<br>Decanting<br>bbl | Oily Water Mixture<br>Volume<br>Column (B-C)<br>bbl |
| Tank 1 | 244.1                                                                                                                       | 244.1                                            | 237,4                                               |                                                     |
| Tank 2 | 246.8                                                                                                                       | 246.8                                            | 244.1                                               | 6.7                                                 |
| Tank 3 | 249.5                                                                                                                       | 249.5                                            | 246.0                                               | 3.5                                                 |
| Total  | 740.4                                                                                                                       | 740.4                                            | 727.5                                               | 12.9                                                |

| Sign-off by | : USCG Rep (optional | I) Signed Name | Printed Name | Date: 6-5-23 |
|-------------|----------------------|----------------|--------------|--------------|
|             | Couvillion Rep       | Signed Name:   | rinted Name  | Date: 6-5-23 |
|             | NRC Rep              | Signed Name:   | Printed Name | Date: 6-5-23 |

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Couvillion Group, LLC

#### Attachment D: Decanted Water from Frac Tanks to Disposal Facility

Date: \_\_6-5-23

|        | Column A                                   | Column B                                         | Column C                                                                                           |
|--------|--------------------------------------------|--------------------------------------------------|----------------------------------------------------------------------------------------------------|
|        | Beginning Tank Strap<br>Measurement<br>bbl | Decant and then Tank<br>Strap Measurement<br>bbl | Volume of oily water transferred to Disposal Facility Column B - Colum using Strap Measurement bbl |
| Tank 1 | 244.1                                      | 237.4                                            | 6.7                                                                                                |
| Tank 2 | 246.8                                      | 244.1                                            | 2.7                                                                                                |
| Tank 3 | 249.5                                      | 246.0                                            | 3.5                                                                                                |

#### Residual Volume left in Tanks

|        | Strap Measurement<br>bbl |
|--------|--------------------------|
| Tank I | 237.4                    |
| Tank 2 | 244.1                    |
| Tank 3 | 246.0                    |

| Sign-off by: USCG Rep(Option | nal) Signed Name: | Printed Name   | Date: 6-5-23 |  |
|------------------------------|-------------------|----------------|--------------|--|
| Couvillion Rep               | Signed Name:      | , Printed Name | Date: 6-5-27 |  |
| NRC Rep                      | Signed Name:      | , Printed Name | Date 6-5-23  |  |

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#### Attachment C: WASTE MANAGEMENT TRACKING FORM

#### Oily Water Transportation and Net Crude Oil

Start Shipments Date: 6-6-23

| Manifest<br>Number | Transporter | Truck<br>Number | Date      | Receiving Facility    | Manifested Volume<br>loaded from Port<br>Fourchon Frac<br>Tank into Truck<br>(bbl from Strap) | Volume received by<br>Buyer<br>( bbl by Strap) | Net Crude Oil bbls<br>(Acadiana Oil Ticket) |
|--------------------|-------------|-----------------|-----------|-----------------------|-----------------------------------------------------------------------------------------------|------------------------------------------------|---------------------------------------------|
| 2                  | AOC         | 2001-03         |           | ACC                   | 141.3                                                                                         |                                                |                                             |
| 3                  | ACC         | 2001-01         | 6//       | AOC                   | 155.4                                                                                         |                                                |                                             |
|                    | 7,00        |                 | -0/0      | ALC .                 | 136.3                                                                                         |                                                |                                             |
|                    |             |                 |           |                       |                                                                                               |                                                |                                             |
|                    |             |                 |           |                       |                                                                                               | 14.00                                          |                                             |
|                    |             |                 |           |                       |                                                                                               |                                                |                                             |
|                    |             |                 |           |                       |                                                                                               |                                                |                                             |
|                    |             |                 |           |                       |                                                                                               |                                                |                                             |
|                    |             |                 |           |                       |                                                                                               |                                                |                                             |
|                    |             |                 |           |                       |                                                                                               |                                                |                                             |
|                    |             | Total Vo        | olumes Sh | ipped by Gallons/bbls |                                                                                               |                                                |                                             |

| End of Shipments date:        |                    | _              |               |
|-------------------------------|--------------------|----------------|---------------|
| Sign-off by: USCG Rep (Option | onal) Signed Name: | - Printed Name | _Date: 6-6-23 |
| Couvillion Rep                | Signed Name:       | . Printed Name | Date: 6-6-23  |
| NRC Rep                       | Signed Name:       | Printed Name   | Date 6-Ce-23  |

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## Attachment C: WASTE MANAGEMENT TRACKING FORM Residual Frac Tank Bottoms

Date: 6.6.23

#### Residual Volume left in Tanks

|        | Strap Measurement after Trucks Loaded in each tank<br>bbls |
|--------|------------------------------------------------------------|
| Tank 1 | 12.6                                                       |
| Tank 2 | 19.9                                                       |
| Tank 3 | 246.0                                                      |

| Sign-c | off by:USCG Rep (Optio | nal) Signed Name | Printed Name | Date: 6-6-23 |
|--------|------------------------|------------------|--------------|--------------|
| 20.0   | Couvillion Rep         | Signed Name      | Printed Name | Date: 6.6.23 |
|        | NRC Rep                | Signed Name      | Printed Name | Date 6-6-23  |

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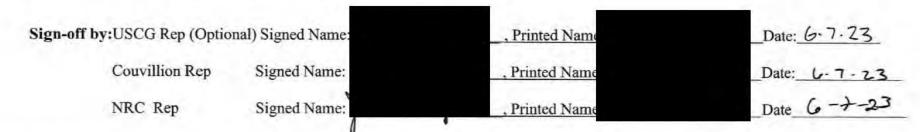
#### Attachment C: WASTE MANAGEMENT TRACKING FORM

#### Oily Water Transportation and Net Crude Oil

Start Shipments Date: 6-7-23

| Manifest<br>Number | Transporter | Truck<br>Number | Date      | Receiving Facility    | Manifested Volume<br>loaded from Port<br>Fourchon Frac<br>Tank into Truck<br>(bbl from Strap) | Volume received by<br>Buyer<br>( bbl by Strap) | Net Crude Oil bbls<br>(Acadiana Oil Ticket) |
|--------------------|-------------|-----------------|-----------|-----------------------|-----------------------------------------------------------------------------------------------|------------------------------------------------|---------------------------------------------|
| 4                  | Aoc         | 2001-01         | 6-7       | Aoc                   | 147.2                                                                                         |                                                |                                             |
| 5                  | AOC         | 2001-03         |           | Aoc                   | 101.7                                                                                         |                                                |                                             |
|                    |             |                 | 140000    |                       |                                                                                               |                                                |                                             |
|                    |             |                 |           |                       |                                                                                               | 1= ====================================        |                                             |
|                    |             |                 |           |                       |                                                                                               | 1                                              |                                             |
|                    |             |                 |           |                       |                                                                                               |                                                |                                             |
|                    |             |                 |           |                       |                                                                                               |                                                |                                             |
|                    |             |                 |           |                       |                                                                                               |                                                |                                             |
|                    |             |                 |           |                       |                                                                                               |                                                |                                             |
|                    |             |                 |           |                       |                                                                                               |                                                |                                             |
|                    |             | Total Ve        | olumes Sh | ipped by Gallons/bbls |                                                                                               |                                                |                                             |

| End of Shipments date: | 6.7.23 |  |
|------------------------|--------|--|
|                        |        |  |



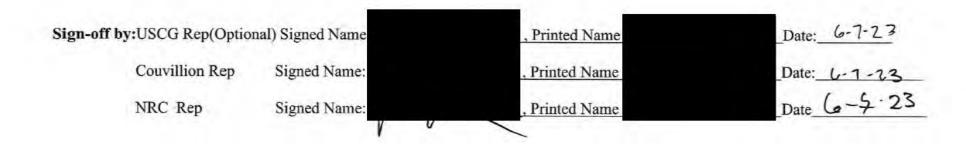
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## Attachment C: WASTE MANAGEMENT TRACKING FORM <u>Transportation Tracking of Petroleum Contaminated Solids</u>

| Manifest Number | Transporter | Shipment Date | Receiving Facility | Manifested<br>Volume<br>(Yard) | Scaled<br>Weight<br>(Lb) | Comments<br>(Box Numbers, etc.) |
|-----------------|-------------|---------------|--------------------|--------------------------------|--------------------------|---------------------------------|
|                 | N           | <b>C</b> 1 1  |                    |                                |                          |                                 |
|                 | 1/10        | Dolld         | 5                  |                                |                          |                                 |
|                 |             |               |                    |                                |                          |                                 |
|                 |             |               |                    |                                |                          |                                 |







## Attachment C: WASTE MANAGEMENT TRACKING FORM Residual Frac Tank Bottoms

Date: 6-7-23

#### Residual Volume left in Tanks

|        | Strap Measurement after Trucks Loaded in each tank<br>bbls |
|--------|------------------------------------------------------------|
| Tank 1 | 12.6                                                       |
| Tank 2 | 11.0                                                       |
| Tank 3 | 6.0                                                        |

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

Couvillion Rep Signed Name:

NRC Rep Signed Name:

Printed Name

Date: 6-7-23

Printed Name

Date: 6-7-23

Printed Name

| ACTIOL DIRECT                                                                                                         | BILL UF LADING<br>irs of hazerdous materials mone number under "Emerge                                                                                                                                                                                                                                                                                                                 | STATE |                                                                                            | Date                                                                                                                                                                 | 5-6-23                                                                                                                                                                                           | Bill of Lading No                                                                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Original—No                                                                                                           | ot: Negotiable                                                                                                                                                                                                                                                                                                                                                                         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ad ana                                                                                     | Oil Co                                                                                                                                                               | nany                                                                                                                                                                                             | Shipper No.                                                                                                                                                          |
| TO:<br>Consignee                                                                                                      | Acadona                                                                                                                                                                                                                                                                                                                                                                                | 0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                            | ne of Carrier) FROM:                                                                                                                                                 | 7                                                                                                                                                                                                | Carrier No/                                                                                                                                                          |
| Street                                                                                                                | 1875 R                                                                                                                                                                                                                                                                                                                                                                                 | rer Of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | pary                                                                                       | Shipper                                                                                                                                                              | Courtle                                                                                                                                                                                          | n Dock                                                                                                                                                               |
| Destination                                                                                                           | Bernich                                                                                                                                                                                                                                                                                                                                                                                | Zip Coo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | H 708                                                                                      | Street                                                                                                                                                               | 554 D                                                                                                                                                                                            | ndley Bernan                                                                                                                                                         |
| Route:                                                                                                                | Huy 90                                                                                                                                                                                                                                                                                                                                                                                 | Vehicle                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                            | 1-02                                                                                                                                                                 | SCAC                                                                                                                                                                                             | Zip Code /<br>Emergency Re                                                                                                                                           |
| Shipping +HIV                                                                                                         | Kind of Packaging, Descri<br>Special Marks and E                                                                                                                                                                                                                                                                                                                                       | Propertions 5000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ommodities requiring                                                                       | special or additional care o                                                                                                                                         | r sotention in handling or                                                                                                                                                                       | Phone Number                                                                                                                                                         |
| 141,3 X                                                                                                               | UN1267                                                                                                                                                                                                                                                                                                                                                                                 | Retrok                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | un Co                                                                                      | Le Ort Netional Motor, Frei                                                                                                                                          | ght Classification, Itam 360,                                                                                                                                                                    | (Subject to Correction)*                                                                                                                                             |
| 661                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                            |                                                                                                                                                                      | 119.11                                                                                                                                                                                           | 16 100                                                                                                                                                               |
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| "If the stipment mo<br>tarrier by water, the                                                                          | ves between two ports by a<br>law requires that the bill of ladir<br>t is "carrier's or ahipper's weight                                                                                                                                                                                                                                                                               | REMIT<br>g C.O.D. TO:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                            | G.D.D.                                                                                                                                                               | G.D.D. FEE                                                                                                                                                                                       | TOTAL                                                                                                                                                                |
| Vote-Where the re                                                                                                     | to in depart                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Subject to Double                                                                          | Amt. S                                                                                                                                                               | PREPAID S                                                                                                                                                                                        | CHARGES                                                                                                                                                              |
| The agreed or declar<br>by the shipper to be                                                                          | rad velue of the                                                                                                                                                                                                                                                                                                                                                                       | side of the property.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | recourse on the                                                                            | n / of the conditions, if<br>consignor, the consigno                                                                                                                 | this shipment is to be delive<br>or shall sign the following sta                                                                                                                                 | red to the consignee without atement.                                                                                                                                |
| B                                                                                                                     | per                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                            |                                                                                                                                                                      |                                                                                                                                                                                                  | ent of freight and all other                                                                                                                                         |
| RECEIVED, subjet condition of conter                                                                                  | ect to the classifications and lawf<br>nts of packages unknown), marke                                                                                                                                                                                                                                                                                                                 | fully filed teriffs in effered, consigned, and de-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ot on the date of                                                                          | the issue of this Bill of                                                                                                                                            | Signature of Consignori<br>Lading, the property describ                                                                                                                                          | art about in second                                                                                                                                                  |
| stination. It is mutu<br>y, that every service<br>date hereof, if this<br>terms and condition<br>oper and accepted to | pot to the classifications and lawlints of packages unknown), markets of packages unknown), markets of packages unknown, markets of packages which packages of the performed flarounder shall be performed flarounder shall be a real-water shipmen is a reil or a reil-water shipmen is a reil or a reil-water shipmen is of the said bill of lading, set in himself and his essigns. | contract) agrees to c<br>all or any of, said pr<br>ill be subject to all the<br>or (2) in the application of the<br>forth in the classification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | arry to its usual operty over all or terms and condable motor carrier than or tariff which | a spove which said camp<br>place of delivery at said<br>any portion of said rout<br>tions of the Uniform Do<br>classification or sariff,<br>a governs the transports | ier (the word carrier being i<br>destination, if on its route,<br>ze to destination and as to i<br>mestic Straight Bill of Lading<br>if this is a motor carrier's<br>stign of this shipperst and | understood throughout this co<br>otherwise to deliver to anoth-<br>sach party at any time intere-<br>j set forth (1) in Uniform Fre<br>hipment. Shipper hereby certi |
| otional method for idea                                                                                               | governing the transportation of heza                                                                                                                                                                                                                                                                                                                                                   | rdous materials. The use                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | of this column is                                                                          | The format and contain of                                                                                                                                            | Normandaria Santa Harris II.                                                                                                                                                                     |                                                                                                                                                                      |
| 3 (III Fefferal Foru harve)                                                                                           | governing the transportation of haza<br>milying hazardous materials on Bills o<br>s. Also when shipping hazardous mate<br>204(a) of the Faderal Rejulations, as<br>from the previous                                                                                                                                                                                                   | remited here (ASTSDATE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | (1) Dill of Title 40                                                                       | 172, Subnart C-Shipping D                                                                                                                                            | irements as described in 49 Coo<br>lapers, Such description consists<br>& Material Table) and Sections                                                                                           | le of Federal Regulations                                                                                                                                            |
| IPPER .                                                                                                               | Will the Carringment I                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | July does above. I                                                                         | Hittings etupping                                                                                                                                                    |                                                                                                                                                                                                  | Unite<br>1470                                                                                                                                                        |
| R Th                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                            |                                                                                                                                                                      |                                                                                                                                                                                                  | 7                                                                                                                                                                    |
| marked, and<br>applicable reg                                                                                         | labeled, and are in proper conditi<br>guistions of the U.S. Department o                                                                                                                                                                                                                                                                                                               | ion for transportation a<br>Transportation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | according to the                                                                           | Carrier acknowledges re<br>tion was made available                                                                                                                   | ceipt of packages and any req<br>and/or carrier has the U.S. I                                                                                                                                   | uired placards. Carrier certifies<br>Department of Transportation e                                                                                                  |
|                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                            | or equivalent documents                                                                                                                                              | ition in the vehicle. Property of                                                                                                                                                                | Jepartment of Transportation e<br>Jescribed above is received in (                                                                                                   |
|                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                            |                                                                                                                                                                      |                                                                                                                                                                                                  |                                                                                                                                                                      |
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#### ...... OIL & ENVIRONMENTAL CORPORATION

1206 Lemaire St. • New Iberia, LA 70560

TRANSPORT MANIFEST

Lease Run Ticket

337-560-5573

25382

| EMERGENC<br>E S & H<br>985-851-505 | Y RESPONSE CO          |          | 6-6                   | 2            |                  | 20 (                    | 2    |
|------------------------------------|------------------------|----------|-----------------------|--------------|------------------|-------------------------|------|
| Operator C                         | DU 1/19                | 1        | _ease No.             | C G          |                  | Ш                       |      |
| Lease Name                         |                        |          |                       |              |                  |                         |      |
| Field GON                          | t Founds               | 91       |                       |              |                  |                         |      |
| GAUGE FEET                         | OIL LEVEL INCHES       |          | -                     | SS&W         | INCHES           | TAN                     |      |
| 1st                                | INCINES                |          |                       |              |                  |                         |      |
| 2nd                                |                        |          |                       |              |                  |                         |      |
|                                    | NK NO.                 | SIZE     |                       |              |                  |                         | _    |
|                                    | SERIAL NUMBERS         |          | EST.<br>GROS<br>GALLO |              |                  | @                       | °F   |
| 9 19 2                             | 8/36 L                 |          | OBSERVE               | D            | 26               | @ 8                     | ) °F |
| 19 2                               | 8 245                  |          | PERCEN<br>BS & W      | 5/10         | OF               | IPERATURE<br>OIL<br>ANK | °F   |
| LOG<br>NUMBER                      |                        | 199      | 1110/-1               | 1            | TY CORR          | JSE ONLY                |      |
| TIME ()                            | : 30 AM                |          | 6496.8<br>6635.9      | 10 60        | ·                |                         | i    |
| ARRIVED //                         | /                      | 17.      | 06 20.4               | 2nd          |                  |                         |      |
| DEPARTED /                         | 2505 AM L              |          |                       | GROS<br>BARR |                  | 140                     |      |
| DELIVERY<br>STATION                | entral Cn              | sde      | P:1020V               | X<br>FACTO   | OR               | 986                     | )    |
| TEMP. FACTOR                       | X W FACTOR -           | as       | REACTOR O             | NET E        | BLS.<br>RUN TIC. | 138.                    |      |
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|                                    | TARE P                 |          |                       |              |                  |                         |      |
| 1:00                               | C DRI                  | IVER     |                       |              |                  |                         |      |
| 1:00                               | NET S OPI              | ERATOR'S | WITNESS               |              |                  |                         | 1    |
| I.D.<br>NUMBER                     | PROPER<br>SHIPPING NA  |          | HAZARD                | PG           |                  | DTAL                    |      |
| UN<br>1267                         | PETROLEUN<br>CRUDE OIL |          | 3                     | 311          | 13               | 8.0!                    | ŝ    |
|                                    | Temp.                  |          |                       |              | 1                | 25                      |      |
|                                    | BStw                   |          |                       |              | C                | .70                     |      |

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

| NOTICE: Shippers                                                                                                            | BILL OF LADING - SHORT FOot hezerdous materials must enter 24-hour e number under "Emergency Response Photo Negotiable                                                                                                                                                                                                                                                                                         | DRM emergency one Number: adrama Orl Carrier)  [Name of Carrier]                                                                                                                                                                                                          | 6.6.23<br>empany                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Bill of Lading No. Shipper No. Carrier No.                                                                                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Consignee<br>Street                                                                                                         | 1825 Pin Of le                                                                                                                                                                                                                                                                                                                                                                                                 | Shippe                                                                                                                                                                                                                                                                    | county                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Non Doch                                                                                                                                                                                                                                                                                                 |
| Destination                                                                                                                 | Bernich Zip Goo                                                                                                                                                                                                                                                                                                                                                                                                | de 70842 Origin                                                                                                                                                                                                                                                           | 539                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Zip Code 7                                                                                                                                                                                                                                                                                               |
| Route:                                                                                                                      | Kind of Packaging, Description of Articles                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                           | SCAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Emergency Resi<br>Phone Number                                                                                                                                                                                                                                                                           |
| Shipping +HM Urats                                                                                                          | Special Mantes and Francisco SIN                                                                                                                                                                                                                                                                                                                                                                               | wing must be so marked and packaged as to any care. San Seption 2(a) of National Map                                                                                                                                                                                      | TO ARREST LAND THE PART PRINCIPLE OF THE PARTY OF THE PAR | Weight (Subject to Eprection)*  Rate or                                                                                                                                                                                                                                                                  |
| Carrier by water the la                                                                                                     | es bebween two ports by a BEMIT C.O.D. TD: S"carrier's or shipper's weight". ADDRESS                                                                                                                                                                                                                                                                                                                           | C.O.O.<br>Amt. \$-                                                                                                                                                                                                                                                        | C.O.D. FEE.<br>PREPAID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | TOTAL.                                                                                                                                                                                                                                                                                                   |
| Note-Where the rate<br>state specifically in wr<br>The agreed or declars<br>by the shipper to be n                          | e is dependent on value, shippers are required to<br>fiting the agreed or declared value of the property.                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                           | ons, if this shipment is to be do<br>nsigner shall sign the following                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | . Statement.                                                                                                                                                                                                                                                                                             |
|                                                                                                                             | to the classifications and lawfully filed tartifs in etc. of packages unknown), marked, consigned, and casion of the property under the contract) agrees to the agreed as to each carrier of all or any of, said to be performed hereunder shall be subject to all it is a rail or a rail-water shipment or (2) in the applies of the said bill of lading, set forth in the classific himself and his assigns. | leat on the date of the issue of this lestined as indicated above which sai carry to its usual place of derivery a property over all or any portion of set terms and conditions of the Unito cable motor carrier classification or salton or tariff which governs the tra | (Signeture of Consignor) Bill of Leding, the property dei do carrier (the word carrier be at said destination, if on its ro- id route to destination and as rm Domestic Straight Bill of L taniff, if this is a motor carr insportation of this shipment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | scribed above in apparent good or<br>ing Understood throughout this co-<br>tute, otherwise to deliver to anoth<br>to each party at any time interer<br>ading set forch (1) in Uniform Fre<br>ier shipment. Shipper hereby cont<br>and the said terms and conditions<br>and the said terms and conditions |
| Mark with "RO" if appropris<br>Transportation Regulations s<br>on optional method for ident<br>Code of Fertural Regulations | othe to designate Hazardous Moterials as defined in the I<br>governing the transportation of hazardous materials. The u<br>stifying hazardous materials on Bills of Lading per 172.2014.<br>Also when shipping hazardous materials, the shipper's cer<br>O4(a) of the Federal Regulations, as indicated on the Bill of                                                                                         | J.S. Department of se of this column is pany interpretation (a)(1) (iii) of Tide 48 172, Subpart CSh relication statement into 172,201 (Hz                                                                                                                                | ntent of hazardous item list is the p<br>of requirements as described in 4<br>hipping Papers. Such description co<br>exardous Misterial Table) and Secti<br>of hazardous class, UN identification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 9 Code of Federal Regulations 91 Code of Federal Regulations on to 12 202 and 172 202 may                                                                                                                                                                                                                |
| PER TI marked, and I applicable reg                                                                                         | labeled, and are in proper condition for transportational database of the U.S. Department of Transportation.                                                                                                                                                                                                                                                                                                   | according to the titll was state at                                                                                                                                                                                                                                       | edges receipt of packages and ar<br>vailable and/or carrier has the l<br>sumentation in the vehicle. Prop                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ny equired placards. Carrier certifies<br>Department of Transportation<br>erry described above is received in                                                                                                                                                                                            |
|                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                          |

#### ACADIANA OIL & ENVIRONMENTAL CORPORATION

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

Lease Run Ticket

25431

EMERGENCY RESPONSE CONTACT:

ES&H

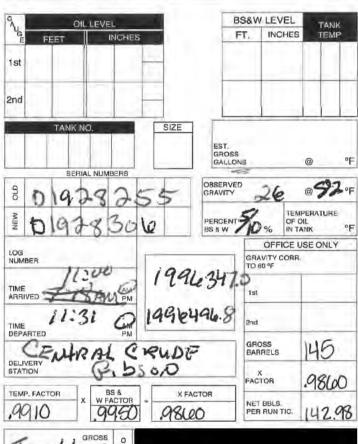
985-851-5055

Date 06 - 06 20 23

Operator COUVI)/, & Base No. C G

Lease Name

Field Founchon



| TRUCKTON TARE | OPEN |                    |
|---------------|------|--------------------|
| 1:30 pm       | CL   | DRIVER             |
| 0430 NET      | OSE  | OPERATOR'S WITNESS |

| I.D.<br>NUMBER | PROPER<br>SHIPPING NAME | HAZARD<br>CLASS | PG | TOTAL<br>BBLS |
|----------------|-------------------------|-----------------|----|---------------|
| UN<br>1267     | PETROLEUM<br>CRUDE OIL  | 3               | Ш  | 142.98        |
|                | Temp                    |                 |    | 1.30          |
|                | BS+W                    |                 |    | 0.72          |

"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 APPL

| STF                                                                     | RAIGHT                                                                                                                     | BILL OF LA                                                                                                                                                            | DING - S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | SHORT FO                                                                                                                                                         | RM                                                                                                                                                      | Data                                                                                                                                                                         | 6.6.23                                                                                                                                                                                                                 | DIN (1)                                                                                                                                                                            | 2                                                                                                                                 |
|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| respo                                                                   | nse telephor                                                                                                               | of hazardous mane number under<br>Negotiable                                                                                                                          | eterials must of<br>"Emergency of "Emergency o | Response Phar<br>Acac                                                                                                                                            | ltara C                                                                                                                                                 |                                                                                                                                                                              | 6.6.23<br>npuny                                                                                                                                                                                                        | Shipper Carrier                                                                                                                                                                    | 2                                                                                                                                 |
| TO:<br>Consi<br>Street<br>Desti                                         | t<br>nation                                                                                                                | 187<br>187                                                                                                                                                            | edram<br>5 Rins<br>wich<br>4 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Zip Cod                                                                                                                                                          | Company<br>708                                                                                                                                          | e of Carrier)  FROM: Shipper Street  Origin                                                                                                                                  | 554<br>SCAC                                                                                                                                                                                                            |                                                                                                                                                                                    | rgency Resp                                                                                                                       |
| No Shipp Unit                                                           | HM s                                                                                                                       | Kind of Packag<br>Special N                                                                                                                                           | ng, Description<br>larks and Excep<br>767                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | stow                                                                                                                                                             | ing must be so mark                                                                                                                                     | ed and peckened as to s                                                                                                                                                      | re or eltention in handling o<br>insure safe transportation<br>regime Classification, item                                                                                                                             | Weight (Subject to                                                                                                                                                                 | Rate or                                                                                                                           |
| Note-Note-State s                                                       | by water, the<br>hether weight.<br>Where the rat<br>specifically in w                                                      | es batween two polaw requires that the is "carner's or ship is dependent on riting the agreed of ed value of the pronot exceeding.                                    | ne bill of lading<br>oper's weight"<br>value, shippers<br>r declared value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ADDRESS are required to of the property                                                                                                                          | recourse on the                                                                                                                                         | consignor, the con-                                                                                                                                                          | signor shall sign the tol                                                                                                                                                                                              | □ \$ be delivered to the cons                                                                                                                                                      |                                                                                                                                   |
| and con-<br>or corpo<br>destination of the deta<br>the deta<br>the term | ECEIVED, subjection of contentral possesson. It is mutuate every service hereof, if this is and condition and accepted for | per desification to the classification to the proper sign of the proper sign of the proper sign of the proper sign of the self of the self bill or himself and his as | cions and lawfully<br>(nown), marked,<br>'ty under the co<br>ach carrier of all<br>lereunder shall b<br>water shipment of<br>feding, set for<br>algns,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | filed tariffs in eff<br>consigned, and d<br>tracti agrees to<br>or any of, said a<br>subject to all the<br>or (2) in the appliant the<br>or (2) in the classific | ect on the date of<br>estined as indicat<br>carry to its usual<br>property over all of<br>he terms and con<br>cable motor carri-<br>ation or tariff whi | f the issue of this B<br>ed above which said<br>place of delivery at<br>or any portion of said<br>ditions of the Uniform<br>or desaification or tra-<br>ch governs the trans | (Signature of Consign<br>III of Lading, the proper<br>carrier (the word carr<br>said destination, if on<br>route to destination a<br>n Domestic Straight Bill<br>orlf, if this is a motor<br>apportation of this shipm | tori)  ty described above in applicate being understood through the route, otherwise to dind as to each party at a lof Lading set forth of commercial property and the said terms. | parent good on<br>aghout this co<br>eliver to anothe<br>iny time interes<br>in Uniform Frei<br>er hereby certil<br>and conditions |
| Mark with<br>Fransport<br>an options<br>Gode of Fr<br>prescribed        | n "RQ" II approp.<br>atlan Regulations<br>al method for Ide<br>aderal Regulation<br>d'in section 172<br>pecific exception  | Take to designate Ha<br>governing the transpositifying hazardous ma<br>s. Also whan shipping<br>204(a) of the Faderal<br>from the requirement                         | zardous Materials<br>ortation of hexardo<br>xerials on Bills of L<br>hazardous materia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | as defined in the I<br>us materials. The o<br>ading per 172 2011<br>de the abinopris rea                                                                         | J.S. Department of<br>se of this column is<br>(a)(1) (hi) of Title 49                                                                                   | The format and cont<br>pany interpretation of<br>172, Subpert C-Ship<br>tions 172 201 (Her                                                                                   | ent of hazardous item list i<br>if requirements as describe<br>ping Papers. Such descript<br>ardous Material Table) and                                                                                                | is the responsibility of IndMd.<br>at in 49 Code of Federal Reg<br>don consists of the following p<br>of Sections 172,202 and 17<br>fentification number, pecking                  | ulations<br>oer Sec-<br>12 203: Note<br>or d<br>may                                                                               |
| 9                                                                       | nerves, and<br>applicable re                                                                                               | labeled, and are in<br>gulations of the U.S                                                                                                                           | proper condition<br>Department of T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | for transportation.                                                                                                                                              | n according to the                                                                                                                                      |                                                                                                                                                                              | allable and/or carrier ha<br>exentation in the vehicle                                                                                                                                                                 | s the U.S. Department of<br>Property described above                                                                                                                               | Transportation of is received in a                                                                                                |
|                                                                         |                                                                                                                            |                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                  |                                                                                                                                                         |                                                                                                                                                                              |                                                                                                                                                                                                                        |                                                                                                                                                                                    |                                                                                                                                   |
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#### ACADIANA OIL & ENVIRONMENTAL TRANSPORT MANIFEST CORPORATION Lease Run Ticket 1206 Lemaire St. • New Iberia, LA 70560 337-560-5573 EMERGENCY RESPONSE CONTACT: ES&H 985-851-5055 CG Lease No. Lease Name Forechon Field BS&W LEVEL OIL LEVEL TANK INCHES TEMP 1st 2nd TANK NO. SIZE GROSS ٥F GALLONS SERIAL NUMBERS OBSERVED OTO ٥F GRAVITY TEMPERATURE PERCENT OF OIL IN TANK BS & W OFFICE USE ONLY GRAVITY CORR. NUMBER STATION ACTOR TEMP, FACTOR BS & W FACTOR X FACTOR NET BBLS. PER RUN TIC. 9950 .9860 DRIVER OPERATOR'S WITNESS

| I.D.<br>NUMBER | PROPER<br>SHIPPING NAME | HAZARD<br>CLASS | PG | TOTAL<br>BBLS |
|----------------|-------------------------|-----------------|----|---------------|
| UN<br>1267     | PETROLEUM<br>CRUDE OIL  | 3               | Ш  | 140.02        |
|                | Temp                    |                 |    | 1.27          |
|                | BS+W                    |                 |    | 0.71          |

"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 MERICAGE FRANCE FRANCE FRANCE FOR THE MERICAGE FRANCE FR

| TO:<br>Consignae                                                                                                                              | Acadian Oil                                                                                                                                                                                                                                                                                                                        | Company                                                                                                             | FROM:<br>Shipper                                                                             | Convillion                                                                                            | n Dock                                             |                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------------------------|----------------------------------|
| Street                                                                                                                                        | 1825 RIVE Z                                                                                                                                                                                                                                                                                                                        | 4                                                                                                                   | Street                                                                                       | 554 Dh                                                                                                | dky Bu                                             | rnard                            |
| Destination                                                                                                                                   | Berwick                                                                                                                                                                                                                                                                                                                            | Zip Code 708                                                                                                        | 12 Origin                                                                                    | COAC                                                                                                  | Zip Ci<br>Emei                                     | rgency Resp                      |
| Route:                                                                                                                                        | they 90                                                                                                                                                                                                                                                                                                                            |                                                                                                                     | uring special or additional care                                                             | SCAC                                                                                                  | Phor<br>Weight                                     | e Number                         |
| Shipping +                                                                                                                                    | HM Kind of Packaging, Descrip<br>Special Marks and Ex                                                                                                                                                                                                                                                                              | stowng must be so                                                                                                   | marked and packaged as to an<br>action 2(e) of National Motor Fr                             | sure sele transportation with                                                                         | [Subject to<br>Correction]*                        | Rate er                          |
| 147.2                                                                                                                                         | x no 1267                                                                                                                                                                                                                                                                                                                          | Petrolena C                                                                                                         | rude oil,                                                                                    | 3, 2911                                                                                               | 74,500                                             |                                  |
| 1836                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                    |                                                                                                                     |                                                                                              |                                                                                                       |                                                    |                                  |
|                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                    |                                                                                                                     |                                                                                              |                                                                                                       |                                                    |                                  |
|                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                    | 147.2 bb1                                                                                                           |                                                                                              |                                                                                                       |                                                    |                                  |
|                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                    | 111.0001                                                                                                            |                                                                                              |                                                                                                       |                                                    | -                                |
|                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                    |                                                                                                                     |                                                                                              |                                                                                                       |                                                    |                                  |
|                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                    |                                                                                                                     |                                                                                              |                                                                                                       |                                                    | 1                                |
|                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                    |                                                                                                                     |                                                                                              |                                                                                                       |                                                    |                                  |
| *If the shipmer                                                                                                                               | nt moves between two ports by a<br>in the law requires that the bill of lad                                                                                                                                                                                                                                                        | REMIT                                                                                                               | 0.0.0                                                                                        | C.O.D. FEE:                                                                                           |                                                    | TOTAL                            |
| state whether                                                                                                                                 | weight is "carrier's or shipper's weigh                                                                                                                                                                                                                                                                                            | t". ADDRESS                                                                                                         | Amt. \$                                                                                      | 1.00                                                                                                  | S laborard to the uppe                             | CHARGES                          |
| state specifica                                                                                                                               | he rate is dependent on value, ship<br>lly in writing the agreed or declared v                                                                                                                                                                                                                                                     | alue of the property. recourse t                                                                                    | Section 7 of the conditions<br>on the consigner, the consi<br>or shall not make delivery     | gnor shall sign the following                                                                         | ng statement.                                      |                                  |
| by the shipper                                                                                                                                | declared value of the property is here<br>to be not exceeding                                                                                                                                                                                                                                                                      | charges.                                                                                                            | in shall not make delivery                                                                   | or this suprient worlde                                                                               | payment of freight                                 | and bir parer                    |
| T                                                                                                                                             | jier                                                                                                                                                                                                                                                                                                                               |                                                                                                                     | Company of the Park                                                                          | (Signature of Consignor)                                                                              | energiand obeyo in or                              | paget good o                     |
| RECEIVED<br>and condition of<br>ar corporation in                                                                                             | I, subject to the classifications and law<br>contents of packages unknown), man-<br>possession of the property under the<br>smutually agreed as to each carriers<br>service to be performed hereunder<br>if this is a rail or a reil-water shipm<br>conditions of the said bill of leding, se<br>pted for himself and his assigns. | wfully filed tariffs in effect on the c<br>ked, consigned, and destined as it<br>e contract) agrees to carry to its | ndicated above which said usual place of delivery at                                         | carrier (the word carrier be<br>said destination, if on its o                                         | peing understood throute, otherwise to c           | oughout this or                  |
| lostination. It is<br>rty, that every<br>he date hereof.                                                                                      | s mutually agreed as to each carrier<br>service to be performed hereunder sl<br>if this is a rail or a reil-water shipm                                                                                                                                                                                                            | of all or any of, said property ove<br>hall be subject to all the terms an<br>ent or (2) in the applicable motor    | r all or any portion of said<br>id conditions of the Uniform<br>carrier classification or ta | Domestic Straight Bill of<br>riff if this is a motor car                                              | Lading set forth (1)<br>rier shipment. Shipp       | in Uniform Fra<br>er hereby cert |
|                                                                                                                                               | conditions of the said bill of lading, se<br>pted for himself and his assigns.                                                                                                                                                                                                                                                     | t forth in the classification or tar                                                                                | iff which governs the trans                                                                  | portation of this shipment,                                                                           | and the said terms                                 | and condition                    |
| he terms and c<br>shipper and acce                                                                                                            | appropriate to designate Hazardous Mass<br>pletions governing the transportation of ha<br>for identifying hazardous naterials on Bills                                                                                                                                                                                             | eriets as defined in the U.S. Departm<br>exardous meterials. The use of this cold                                   | umn is pany interpretation of<br>the 49 172 Support CShip                                    | ent or hazardous (tem list is the<br>Frequirements as described in<br>Sing Papers, Such description o | 49 Code of Federal Re<br>consists of the following | julations or per Sec-            |
| fack with "RO" if                                                                                                                             |                                                                                                                                                                                                                                                                                                                                    | eterials, the ehippur's sertification stat                                                                          | ement Bons 172,201 (Haz<br>apply, Proper chipping nam                                        | ardoua Material Table) and Se<br>ie, hazardous class, UN dynti                                        | ctions 172,202 and 1                               | 72.203:                          |
| fank with "RQ" if<br>rensportation Reg<br>n optional method<br>bde of Federal Re                                                              | gulatzurs. Also when shipping hazardnus m<br>on 172.204(a) of the Federal Regulations.                                                                                                                                                                                                                                             | as indicated on the bill or Lading dots                                                                             |                                                                                              |                                                                                                       |                                                    |                                  |
| Mark with "RO" if<br>iransportation Reg<br>n optional method<br>tode or Federal Re<br>rescribed in section<br>nless a specific sa             | gulatzurs. Also when shipping hazardnus m<br>on 172.204(a) of the Federal Regulations.                                                                                                                                                                                                                                             | as noticeted on the Bill or Lading does<br>the Regulation for a particular materia                                  | al. and subaldiary class                                                                     | 25).                                                                                                  |                                                    | (4)                              |
| Mark with "RQ" if<br>Tensportation Reg<br>In optional method<br>Tode of Federal Re                                                            | gulatzurs. Also when shipping hazardnus m<br>on 172.204(a) of the Federal Regulations.                                                                                                                                                                                                                                             | as indicated in the bill of Lading cale<br>this Regulation for a periodial insterio                                 | al. and subsidiary classi                                                                    | es).                                                                                                  |                                                    | (4)                              |
| Mark with "Rio" if<br>the protection Reg<br>in options method<br>lode or Faderel Re<br>rescribed in Section<br>miess a specific as<br>SHIPPER | gulatzurs. Also when shipping hazardnus m<br>on 172.204(a) of the Federal Regulations.                                                                                                                                                                                                                                             | she Regulation für e perticular misteric                                                                            | and subsidiary class                                                                         | enable and/or carrier has the mentation in the vehicle. Pr                                            | e U.S. Department o                                | Transportation                   |

#### ACADIANA OIL & ENVIRONMENTAL TRANSPORT MANIFEST CORPORATION Lease Run Ticket 1206 Lemaire St. • New Iberia, LA 70560 337-560-5573 EMERGENCY RESPONSE CONTACT: ES&H 985-851-5055 CG Lease No. Lease Name Field BS&W LEVEL OIL LEVEL TANK INCHES TEMP 1st 2nd TANK NO. SIZE GROSS GALLONS °F SERIAL NUMB GRAVITY TEMPERATURE PERCENT OF OIL IN TANK BS & W OFFICE USE ONLY LOG NUMBER GRAVITY CORR. AM PM ABBIVED TIME DEPARTED GROSS BARRELS DELIVERY STATION X FACTOR TEMP. FACTOR BS & W FACTOR X FACTOR NET BBLS .99100 DRIVER OPERATOR'S WITNESS LO 0400 HAZARD I.D. PROPER PG TOTAL NUMBER BBLS SHIPPING NAME CLASS

"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 DECARTMENT OF THANSPORTATION."

3

111

Shipper: Mike LeBlanc Jr. Date:

PETROLEUM

CRUDE OIL

UN

1267

| Consignee                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Acadian al Con                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                              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Ship<br>to, and the said term<br>is responsibility of indivi-<br>nd 9 Code of Federal Ri-<br>considers of the Individual                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | pparent good or roughout this co deliver to anothe any time interes in the condition of the |
| The agreed or by the shipper \$\$.  FECEIVEL and condition of incorporation in lestimation. It is that, that every he date heroof hat heroof at terms and shipper and acutation at terms and shipper and acutation for a patient with High an application from a patient in the property of the patient in the patie | per                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | mully filed tariffs in effect ted, consigned, and described, consigned, and described in the control of the con | to on the date of the bined as indicated ab indicated ab indicated ab increase of the bined as a susual place. The bine and condition ble motor carrier claicon or tariff which go the bis column is 11 (III) of Title 49 17 is is a substantial bined as a | issue of this B<br>love which said<br>of delivery at<br>portion of sais<br>soft the Unifor<br>soft the Unifor<br>overns the tran                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | (Signature of Consignor) ill of Lading, the property corrier (the word cacrier said destination, if on its droute to destination and n Domestic Streaght Bill of andf, if this is a motor of sportation of this shipment tent of hazardous item list is the requirements as described in sping Papers. Such description and our succession and the said sping special succession and the said sping special sping sping special sping sp | described above in a being understood in route, otherwise to as to each penty at Lading set forth: (1) arrier shipment. Shipt, and the sald term are responsibility of individual of the following colonial of the following colonial of 200 and individual of the following colonial of 200 and individual of the following colonial of 200 and individual openhage assistant appears as the following colonial of 200 and individual openhage assistant openhage | pparent good or roughout this co deliver to anothe any time interest of the control of the contr |
| The agreed or by the shipper \$\$.  FECEIVEL and condition of the comporation is estimated in a comporation in testimation. It is they had been seen to be the comporation in a terms and about the comporation in a comporation in an appetuation Red and Federal Red and seen optional methods of Federal Red and SHIPPER.  PER  This is a specific service of the composition of the  | D, subject to the classifications and law f contents of packages unknown), mark in possession of the property under the is mutually agreed as to each carrier or earvice to be performed hereunder shipm conditions of the said bill of lading, selepted for himself and his assigns.  Tappropriate to designate Hazardous Nate guestions governing the transportation of the or dentifying hazardous materials in Bills egulations. Also when shipping hazardous materials are selected to content of the said bills. | willy filed tariffs in effected, consigned, and dear a contract) agrees to car af all or any of, said pro- lall be subject to all the ant or (2) in the applicate forth in the classification of the constant or (2) in the applicate forth in the classification and the classification of the classification of the classification of the classification of the classification for transportation of the classification for transportation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | to on the date of the bined as indicated ab indicated ab indicated ab inny to its usual placing terms and candition ble motor carrier of ion or tariff which go in this column is (1) (III) of Title 49 icesion statement.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | issue of this B ove which said of the unit | (Signature of Consignor) ill of Lading, the property corrier (the word carrier said destination, if on its droute to destination and nomestic Streight Bill of anff, if this is a motor casportation of this shipment and the said requirements as described in pring Papers. Such description randous Material Table), and Streight and S | described above in a being understood throute, otherwise to as to each penty at Lading set forth; [1] arrier shipment. 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It and condition or goer Section or Transportation of Transportation of Transportation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

#### ...JIANA UIL & ENVIKUNMENTAL CORPORATION

1206 Lemaire St. + New Iberia, LA 70560 337-560-5573

TRANSPORT MANIFEST

Lease Run Ticket

25432

|                       | Y RESPONSE     | CONTAC     | 1;                      |        | _       |            |     |
|-----------------------|----------------|------------|-------------------------|--------|---------|------------|-----|
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|                       | 10.11          |            |                         |        |         |            |     |

"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".

## Appendix II

## NRC Waste Handling Documentation

| DE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ECLARATION OF INSPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GIS/CONVICTION DOCK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | PORT Fourdrow                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5-21-23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| M/U Brandon Burd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | lelow                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | DATE TRANSFER OPERATIONS STARTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ce to or from a vessel unless the g persons in charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | following requirements are met and agreed upon e specific requirement has been met.                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Persons in charge indicate by a check (1), in  PESSEL  A. The mooring lings are adequate for B. Cargo hoses and/or loading arms of C. Cargo hoses are adequately supported by D. The transfer system is properly line be performed each time a valve is E. Each flange connection on the cargo revery other hole, (minimum of 4 before the Captain of the Port G. The overboard or sea suction valved H. Adequate spill containments have I. All scuppers or other overboard dr. J. A communications system is proving K. Emergency shutdown system is a L. Communication procedures are estable. M. Qualified and designated personal N. One person at the vessel control station.  O. The owner of the cargo hoses will covers, kinks, bulges, soft spots of that hoses are marked for identification of the cargo hose in charge have held a contained. I. Product identity to be transferred. 2. Sequence of transfer operation 3. Transfer rate of flow | for all anticipated conditions.  The are long enough for intended us orted to prevent undue strain on ined up for discharging or receives repositioned.)  The are connected to the manifol bolts). Exception: Tanks without lives are sealed or lashed in the clayed been provided for couplings.  The arise are closed or plugged.  The available and operable.  The available and operable.  The available and understood between el are in charge and on duty at a station is present who fluently specified in the clayed are in charge and slashes which cation and test data is maintained and terminal work areas and maniference to assure the mutual untered.  The arch person participating in the trand receiving systems.  It is successful to the archive the mutual untered.  The arch person participating in the trand receiving systems.  It is successful to the archive the mutual untered. | the couplings.  ying oil. (Additional checks shall  g the transfer operation is blanked  Ids using gaskets and a bolt in  It fixed loading systems per waiver  osed position.  Even persons in charge.  the terminal and vessel control stations.  peaks the language of the terminal control  been met and that the hose has no loose in penetrate the hose reinforcement and id in a test log.  if old areas is provided.  derstanding of the following transfer operations:  and understood id cleanup of spills. |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | tions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Ji</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| The following items are to be filled out by                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Vessel personnel only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | .35-30),<br>35,35-30),<br>0).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Se during a during a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | SA A . A . A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| certury that I have read, understand and agree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ree with the foregoing as marked                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | I and agree to begin/continue the transfer operation                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| PERSON<br>IN CHARGE OF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | PERSO<br>IN CHAR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

FACILITY

VESSEL Time Date 5-21-23 Time 530 Date

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

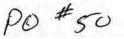
VESSEL



| DECLARATION OF INSPECTION PRIOR TO BULK CARGO TRANSFER |                                                                                                                                              |                     |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dat                                                    | e: 5-21-23 Location: GIS POCH FOURCE                                                                                                         | Lian                |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                        | ility/Vehicle Number: GIS NOV                                                                                                                | Start T             | ime E             | nd Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                                                        | sel Name: Brandon Bordelone                                                                                                                  | 0530                | IIIC L            | iu ime                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| _                                                      |                                                                                                                                              |                     |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| _                                                      | 7 6361                                                                                                                                       | Capacity (Total) (  |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Pro                                                    |                                                                                                                                              | ansfer Volume (I    | The second second |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                        | Note For Emergency Notification Discharge a                                                                                                  | mounts (Gallons):   | V                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Avei                                                   | rage most probable:                                                                                                                          |                     |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Max                                                    | imum most probable:                                                                                                                          |                     |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| -                                                      | st case discharge:                                                                                                                           |                     |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                        | The following list refers to requirements set forth in detail in 33                                                                          | CED 156 150 and     | 44 CED 1          | F 2 F 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                                        |                                                                                                                                              |                     |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| A                                                      | The spaces on the left are to be reviewed by ALL PIC's involved                                                                              | in the transfer and | checked in        | agreement,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| A                                                      |                                                                                                                                              |                     |                   | A STATE OF THE PARTY OF THE PAR |
|                                                        |                                                                                                                                              |                     |                   | with (IN/A).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| >                                                      | Items on the list are provided to indicate that the detailed requirem                                                                        | nents have been me  | t                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                        | Tanks                                                                                                                                        |                     | PIC               | PIC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| W                                                      | TOPIC TOPIC                                                                                                                                  |                     | Delivering        | Receiving                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                                        | Verify PIC designation/qualification 33 CFR 154.710, 154.730, 154.740                                                                        | )(b)                | 10                | 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                        | Person In Charge (PIC): In Immediate Vicinity and Available                                                                                  |                     | W                 | 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                        | Personnel: Capable/Unimpaired                                                                                                                |                     | 19                | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                        | Name, title and location of each person participating in the transfer open MC 20 Subsea Storage Offloading Operations & Maintenance Manual p | ation               | M                 | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                        | procedures and particulars of the transfer and receiving systems to be followed by                                                           | resent with         |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                        | with key personnel involved in these operations                                                                                              | nowed and verified  | <b>b</b>          | 0.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                        | Watch and shift arrangements discussed                                                                                                       |                     | 1/2               | 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                        | Cargo is Authorized for transfer to or from tanks                                                                                            |                     | 16                | 1 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| -                                                      | Discuss if transfer will need to stopped to change tanks - supply or received                                                                | iving facility      | 15                | 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                        | Discuss transfer rates and max allowable to receiving facility                                                                               |                     | Vo                | ONB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                        | (Facility/Vessel) properly vented (monitoring vacuum and positive tanks                                                                      | s pressure)         | 12                | 130                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| _                                                      | Communications & No Language Barrier                                                                                                         |                     | W)                | 93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| § Ho                                                   | oses and Connection - 33CFR 154.500                                                                                                          |                     |                   | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| - 4                                                    | Nonmetallic hoses usable for oil or hazardous material service                                                                               |                     | 10                | 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                        | Proper connections (must be one of the following):                                                                                           |                     | 5                 | <b>3</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                                        | Fusion 100 hammer union connections  Quick-disconnect coupling present on suction side of pump                                               |                     | <u>l</u>          | 43                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                        | Examine transfer hose markings or records.                                                                                                   |                     | 5                 | 83                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                        | Name of product handled; example "OIL SERVICE," or "HAZMAT SE                                                                                | RVICE"              | 9                 | 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 8 Ex                                                   | amine Transfer Hose condition - 33CFR 156.170                                                                                                | RVICE               | 16                | 1 99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 3                                                      | No unrepaired kinks, bulges, soft spots, loose covers, other defects                                                                         |                     |                   | 1 1/2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                                        | No cuts, slashes, or gouges that penetrate the first layer of hose reinforce                                                                 | ement               | B                 | 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                        | No external/internal deterioration                                                                                                           | anout               | 0                 | des                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| § Em                                                   | nergency shutdown - 33CFR 156.170                                                                                                            | 1                   | 150               | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                        | Test emergency shutdown - 33CFR 154.550 - who controls the emerge                                                                            | ency shutdown       | Vs.               | 108                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                        | Communication system continuously operated.                                                                                                  |                     | 6                 | 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                        | Verify operating properly (Electric, pneumatic, or mechanical link to fac                                                                    | ility; electronic   | lea               | 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                        | voice)                                                                                                                                       |                     | (4)               | 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 0 -                                                    | Record test info in physical information.                                                                                                    | 11                  | 6                 | 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| § Exa                                                  | amine closure device - 33CFR 154.520                                                                                                         |                     |                   | , n                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 0 -                                                    | Verify enough to blank off ends of each hose /loading arm not connected                                                                      | for transfer        | W                 | A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| g Ins                                                  | pect Small Discharge Containment - 33CFR 154.530                                                                                             |                     | 1                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                        | Inspect handling area and verify capacity (not less than 5 gallons).                                                                         |                     | MO                | 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |



|       | Pre-Transfer Conference and Agreement (Continued)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | DIC.                  | DIC                                     |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------------------------|
| Ø     | <u>TOPIC</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | PIC Delivering        | PIC<br>Receiving                        |
| § Ins | spect discharge containment equipment for oil & hazardous liquids - 33CFR 154                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | .545                  | 111111111111111111111111111111111111111 |
|       | Verify booming for oil or hazmat transfer (if required by COTP).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | h                     | V3                                      |
|       | Verify adequate amount of equipment and/or absorbent material for initial response                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | NO.                   | 18                                      |
|       | Inspect condition of response equipment stored on facility (if applicable).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | W                     | 63                                      |
|       | Verify availability of at least 200 feet of containment boom onsite within 1 hour.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | W                     | 43                                      |
| _ 1   | Verify means of deployment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | h                     | 03                                      |
| § Me  | eans of Communication - 33 CFR 154.560                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                       | - Os                                    |
|       | Verify continuous two-way voice communication between vessel and facility PICs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | I W                   | 0.83                                    |
|       | Communications must meet the following requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 170                   | 72                                      |
|       | Portable Radio:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                         |
|       | IF Flammable or Combustible Liquids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | b                     | 03                                      |
|       | Marked or documented as intrinsically safe.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | N)                    | 50                                      |
|       | 2. Certified as intrinsically safe by national testing labor certification organization.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | K                     | 03                                      |
|       | Voice                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                       | 05                                      |
|       | 1. Be audible.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | IKO                   | CMC                                     |
|       | Test communications. SAT UNSAT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | llin                  | 759                                     |
| Ins   | spect lighting systems - 33 CFR 154.570                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1.363,2               | 1                                       |
|       | Verify portable lighting for operations between sunrise and sunset (if applicable).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 116                   | (163                                    |
|       | At transfer operations work areas for facility and vessel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | No                    | 3/3                                     |
|       | At transfer connection points for facility and vessel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | VA                    | 90                                      |
|       | Verify sufficient number or fire extinguishers.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | h                     | 150                                     |
|       | Verify protective equipment is ready to operate.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | b                     | 20                                      |
|       | Verify warning signs are adequate.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 16                    | W)                                      |
|       | § VESSEL ONLY - 155.730 Compliance with VESSEL TRANSFER I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | POCEDUDES &           | - 01                                    |
|       | PIC for vessel/operator is required by §155.720 to have current transfer procedures                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ROCEDORES &           |                                         |
|       | 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 o                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | naration              |                                         |
|       | Appropriate tank level monitoring (visual, gauging, indicators, etc.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | peration              | _                                       |
|       | Arrangements to monitor draft marks during transfer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       |                                         |
|       | Transfer Piping Line diagram, location of each valve, pump, control device, vent, an                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | d avantani            | -                                       |
|       | Shutoff valve location or isolation device separating bilge or ballast from the transfer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | u overnow             |                                         |
|       | Adequate containment on the vessel at loading or discharge connection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | system                |                                         |
|       | Drains, Scuppers and overboard discharges closed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       |                                         |
|       | The number of persons required to be on duty during transfer operations;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                       |                                         |
| - 7   | Procedures for emptying discharge containment system required by §§155.310 and 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 55 220                |                                         |
|       | Procedures for tending the vessel's moorings during the transfer of oil or hazardous                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | material              |                                         |
|       | Procedures for emergency shutdown/communications required by §§155.780 and 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5 795                 |                                         |
|       | Procedures for topping off tanks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3.763                 |                                         |
|       | Procedures ensuring all valves used during transfer are closed upon completion of tra                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | nefer                 |                                         |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                         |
|       | I do certify that I have personally inspected this facility or vessel with refere                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ence to the requirem  | ents                                    |
|       | aforementioned and that I have indicated that the regulations have been col                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | nplied with if applic | able.                                   |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | MAIA                  | 1                                       |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5-21-13 6             | 1530                                    |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DATE                  | TIME                                    |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5-21-23               | 1011                                    |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DATE                  | TIME                                    |
|       | Control of the state of the sta | DATE                  | TIME                                    |
|       | TRANSFER COMPLETED:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       |                                         |
|       | AMOUNT (GALLONS)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | DATE                  | TIME                                    |





#### SAFETY MANAGEMENT SYSTEM

Revision: 08/2015

Job Hazard Analysis

|                                                                        |                            | -                                                                                                                                                                                                                    |                                                                                                                                                                                             | ****                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Company (Company)                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                        |
|------------------------------------------------------------------------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
|                                                                        |                            |                                                                                                                                                                                                                      | SUMMARY OF POTENTIAL HAZA                                                                                                                                                                   | THE PERSON NAMED IN                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                          | W                                                                                                                                      |
| Heavy or awkward lifting / movement                                    |                            | Pinch Points or caught between                                                                                                                                                                                       |                                                                                                                                                                                             | Working and walking surfaces; slip, trip, fall                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                        |
| ☐ New / Ine                                                            | xperienced employe         | es                                                                                                                                                                                                                   | Spill / containment                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                          | ronment                                                                                                                                |
| Struck by                                                              | or crush hazard            |                                                                                                                                                                                                                      | Noise levels (>85 dBA)                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                        |
|                                                                        | s liquids, vapors, was     | ste                                                                                                                                                                                                                  | Elevated surfaces / Fall / Ladd                                                                                                                                                             | ers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                        |
|                                                                        |                            |                                                                                                                                                                                                                      | APPLICABLE REGULATION                                                                                                                                                                       | /SOPS / A                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | LERTS                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                        |
| SMS 19.2                                                               | Vacuum Trucks              |                                                                                                                                                                                                                      |                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                        |
|                                                                        |                            | MI                                                                                                                                                                                                                   | NIMUM PERSONAL PROTECTIVE EC                                                                                                                                                                | DUIPMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (Check applicable)                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                        |
| ☐ Level A                                                              | Hard Hat                   |                                                                                                                                                                                                                      | High Visibility Vest                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | er Steel Toe Boots                                                                                                                                                                                                                                                                                                                                                                                       | ☑ PFD / Work vest                                                                                                                      |
| ☐ Level B                                                              | Safety Glasse              | 25                                                                                                                                                                                                                   | ☐ Long Sleeves / Coveralls                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | sable boot covers                                                                                                                                                                                                                                                                                                                                                                                        | T Work vest                                                                                                                            |
| Level C                                                                | ☐ Face Shield              |                                                                                                                                                                                                                      | Chemical protective clothing                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | rene Steel Toe Boots                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                        |
| ☐ Level D                                                              | Hearing Prot               | ection                                                                                                                                                                                                               | Respirator:                                                                                                                                                                                 | ⊠ Glove                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                        |
|                                                                        | Zincomgino                 | CCLIOII                                                                                                                                                                                                              | JOB HAZARD AI                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                        |
| 0 1                                                                    | ob Steps                   |                                                                                                                                                                                                                      | Potential Hazards                                                                                                                                                                           | TAL TOIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Preventive Mea                                                                                                                                                                                                                                                                                                                                                                                           | asures / Special PPE                                                                                                                   |
| Behavior Based Safety operation or their r Personne hazards a Personne |                            | ersonnel do not understand the perational plan, relevant hazards their roles/responsibilities ersonnel do not stop work when exards are identified ersonnel do not report injuries, nesses, near misses or incidents |                                                                                                                                                                                             | <ul> <li>The operational plan, hazards and controls will be explain to all involved personnel in Safety/Ops meeting. Personr will be encouraged to ask questions if they are unsure of any project details.</li> <li>Immediate supervisor will remind their crews of their Authority and Responsibility to Stop work and contact the supervisor if they discover a hazard.</li> <li>Personnel will be instructed to report any injuries, illnessed near misses or incidents.</li> </ul> |                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                        |
|                                                                        | Survey and<br>pment Set-up | • Eq<br>or<br>• Im                                                                                                                                                                                                   | neven working surfaces and trip<br>lozards.<br>Juipment not certified, not tested<br>damaged<br>Iproper set-up due to untrained<br>unqualified personnel                                    | <ul> <li>Inspect site for correctable walking surface hazards. correct unsafe conditions. Position equipment and away from travel paths. Identify "no-go" areas.</li> <li>All equipment will be inspected for current certificatitesting and serviceable working condition prior to well personnel will be pre-selected to perform tasks based verified competency</li> </ul>                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                          | ns. Position equipment and hoses<br>. Identify "no-go" areas.<br>pected for current certifications,<br>working condition prior to work |
| •                                                                      |                            | str<br>ve<br>• Ve<br>me                                                                                                                                                                                              | risonnel, equipment or hoses ruck or crushed by moving hicles or equipment chicles not inspected prior to ovements. Unsafe for travel. nsecured items create dropped oject or road hazards. | • 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Ground guides will be used for equipment movement: Non-essential personnel will clear the travel path. Trapath 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.                                       |                                                                                                                                        |
| working near water c: P d P                                            |                            | • Pe                                                                                                                                                                                                                 | rsonnel struck by thrown lines or<br>ught in "line of fire".<br>rsonnel pinched or crushed<br>ring vessel movements.<br>rsonnel fall into the water. Man<br>erboard.                        | • 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | to fall on the ground and pick them up. Do not atter catch mooring lines from the M/V.  When mooring the vessel, keep hands, fingers, arms, other body parts from between the mooring line and bits on the dock  Never work alone. All personnel within 5' of the docks are required to wear a USCG approved PFD. Always "man overboard" procedures prior to work. Have life and recovery plan in place. |                                                                                                                                        |
| wh • Per oth dur hos                                                   |                            | ersonnel crushed or pinched hile connecting transfer hoses. ersonnel suffer back strain or her ergonomic related injuries uring connections or moving uses p/trip/fall hazards while working                         |                                                                                                                                                                                             | dentify, communicate and avoid all crush/pinch point including cam-lock connections, vehicles and other materials or equipment.  Transfer hoses can be heavy and when handling thes hoses employees shall use proper ergonomic practice including keeping your back as straight as possible a as lifting with your knees and not your back observe good housekeeping and maintain situational                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                        |

Observe good housekeeping and maintain situational



#### SAFETY MANAGEMENT SYSTEM

Revision: 08/2015

Job Hazard Analysis

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



#### SAFETY MANAGEMENT SYSTEM

SAFETY IVE THE WAY TO GO!

Job Hazard Analysis

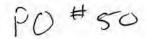
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| Job Steps                                    | Potential Hazards                                                                                                                                                                                                                      | Preventive Measures / Special PPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                              |                                                                                                                                                                                                                                        | <ul> <li>detected. PPE will be upgraded according to the concentration of hazards detected.</li> <li>If personnel will work at heights above 6': fall protection will be worn and a rescue plan will be in place.</li> <li>Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Prolonged exposure to elements (Heat Stress) | Inadequate hydration     Extended work periods without rest resulting in heat stress                                                                                                                                                   | <ul> <li>Personnel will be encouraged to hydrate frequently, Water to sports drink ratio will be 3:1 (1 sports drink to 3 waters consumed).</li> <li>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).</li> </ul>                                                                                                                                                                           |
| 11. Break time                               | <ul> <li>Potential for ingestion of petroleum product or other contaminants.</li> <li>Fire hazards from unrestricted smoking</li> <li>Direct sun reduces recovery time for workers during breaks.</li> <li>Inadequate water</li> </ul> | <ul> <li>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.</li> <li>Only smoke in designated areas.</li> <li>Ensure that break areas have adequate shade and cooling potential for personnel</li> <li>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.</li> </ul>                                                                                                                                                                                                                                                                                                                                                 |
| 12. Decontaminate<br>Personnel               | Potential for secondary contamination by absorption, injection, or ingestion                                                                                                                                                           | <ul> <li>Follow decontamination plan for clothing removal and disposal when protective outerwear is required and becomes contaminated.</li> <li>Only use safety scissors (never knives) to cut Tyvek from personnel.</li> <li>Ensure that workers wash hands and face thoroughly.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| NRC INCIDENT REPORTING POLICY                | First Aid     OSHA recordable     Illness/Injury     Near Miss     Equipment/Vehicle Damage                                                                                                                                            | <ul> <li>NRC employees and subcontractors are required to immediately report all incidents to their supervisor.</li> <li>The immediate supervisor will immediately report the incident to the site safety professional, HSEQ Manager, and Project Manager.</li> <li>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.</li> <li>The supervisor will complete a root cause analysis of all reported incidents and submit to the HSEQ manager within 8 hours of an incident.</li> <li>Determination will be made regarding need for post-incident drug and alcohol testing based on NRC policy.</li> <li>Contact HSEQ Manager for proper USCG reports, if needed and what report is needed.</li> </ul> |

#### REVIEW

| Development Team | Position/Title | Reviewed By | Position/Title | Date    |
|------------------|----------------|-------------|----------------|---------|
|                  |                |             |                | 7/27/20 |
|                  |                |             | PM             | 5-21-   |

|               | ACKNOWLED | GEMENT    |         |
|---------------|-----------|-----------|---------|
| Employee Name | 1         | Signature | Date    |
|               |           |           | 5-21-23 |
|               |           |           | 5-21-23 |
|               |           |           | 5-21-23 |







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Site Specific Safety Plan

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            |  |  |  |  |
| Yard Manager                                                                          | Darryl Prout (985) 396-4518          |  |  |  |  |
| H&S Program Manager                                                                   | Peter Brause, CSP (310) 387-2639     |  |  |  |  |
| VP Health & Safety                                                                    | Ken Koppler, CIH, CSP (971) 285-0450 |  |  |  |  |
| Hospital / Medical Intervention Lady of the Sea Hospital: Galliano, LA (985) 632-6401 |                                      |  |  |  |  |

| Date:    | 2      | /21        | / 2023             | Start Time:      | 0600            | Job Nur         | nber:      |
|----------|--------|------------|--------------------|------------------|-----------------|-----------------|------------|
|          |        | Land Eme   | ergency Response   | ☐ Marine Emer    | gency Response  | ☐ Land Service  |            |
|          |        |            | SITE               | DESCRIPTIO       | N / WORK S      | UMMARY          |            |
| The site | is the | e Port For | rchon Facility: 55 | 4 Dudley Bernard | Dd Dort Fourcho | n IA 70257 (005 | \ 206 4E19 |

The site is the Port Fourchon Facility: 554 Dudley Bernard Rd. Port Fourchon, LA. 70357 (985) 396-4518

NRC will facilitate removing recovered crude oil from the well located at MC20 project. The M/V 33 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 Port Fourchon 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\_335 will send a 100′ section of 3-inch petroleum duty hose to the dock where it will be connected to the hoses leading to a properly rated and tested manifold. The manifold has one inlet and three outlets. Each outlet will be fitted with a 3-inch transfer hose and affixed to the frac tanks. Once the connections are secured and the declaration of inspection (DOI) is complete, the vessel will transfer the crude oil in her tanks using a 4-inch pneumatic diaphragm pump. As the frac tanks near capacity the dockside operator will open the next manifold valve and close the active one. This process will continue until all three frac tanks are at capacity. Once the transfer is complete a 1-inch airline with the proper fitting will be given to the M/V's crew to send compressed air up the hose to "blow down" any residual product left in the hoses to ensure no product is spilled when the hoses are disconnected.

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



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

**EQUIPMENT** 

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

ATTACHMENTS

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





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

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#### **CHEMICAL INFORMATION**

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





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

#### PERSONAL PROTECTIVE EQUIPMENT

| TASK                  | Level | MASK /<br>CARTRIDGE /<br>AIR                                                  | ADDITIONAL PPE                                                                                                                                                                                                                                                                                                         |
|-----------------------|-------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mooring Vessel        | D     | N/A                                                                           | Level D PPE with the addition of an approved PFD when working within 5' of the docks edge                                                                                                                                                                                                                              |
| Connecting hoses      | D     | N/A                                                                           | Level D PPE with the addition of an approved PFD when working within 5' of the docks edge                                                                                                                                                                                                                              |
| Completing inspection | D     | N/A                                                                           | Level D PPE with the addition of an approved PFD when working within 5' of the docks edge                                                                                                                                                                                                                              |
| Transfer operations   | D     | Level C or Level<br>B may be<br>needed based on<br>air monitoring<br>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. |
|                       |       |                                                                               |                                                                                                                                                                                                                                                                                                                        |
|                       |       |                                                                               |                                                                                                                                                                                                                                                                                                                        |
|                       |       |                                                                               |                                                                                                                                                                                                                                                                                                                        |
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|                       |       |                                                                               |                                                                                                                                                                                                                                                                                                                        |
|                       |       |                                                                               |                                                                                                                                                                                                                                                                                                                        |

#### RESPIRATORY PROTECTION PLAN

The NRC SMS Procedure 13.2 for Respiratory Protection is provided in **Attachment\_C**.





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

## AIR MONITORING / ACTION LEVELS

| Chemical Hazard             | Instrument        | Action Level                        | Action                                                                                                                                                                               |
|-----------------------------|-------------------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Oxygen (O₂)                 | 4-gas             | <19.5% or >23.5%                    | <ul> <li>Stop work, determine source of hazard and<br/>apply engineering control (ventilation) until<br/>reading can be brought to 21% +/-1%.</li> </ul>                             |
| Carbon Monoxide (CO)        | 4-gas             | 25 ppm                              | <ul> <li>Stop work, determine source of hazard and<br/>apply engineering controls. Upgrade PPE as<br/>necessary.</li> </ul>                                                          |
| Lower Explosion Limit (LEL) | 4-gas             | >10%                                | <ul> <li>Stop work, determine source of hazard and<br/>apply engineering control (ventilation) until<br/>reading can be brought below 10%.</li> </ul>                                |
| Hydrogen Sulfide (H2S)      | 4-gas             | 10 ppm<br>>10 ppm                   | <ul> <li>OSHA PEL</li> <li>SCBA / Supplied Air Respiratory Protection</li> </ul>                                                                                                     |
| PID/VOC                     | PID               | 10 - 750 ppm<br>>750                | Don level C PPE APR w/OV cartridge (Check<br>Benzene Levels, if Benzene levels are below<br>0.5 Respiratory protection may be reduced     SCBA / Supplied Air Respiratory Protection |
| Benzene                     | Colorimetric Tube | <0.5 PPM<br>0.5 – 25 PPM<br>>25 PPM | <ul> <li>No Respiratory requirement</li> <li>Full Face APR with OV Cartridges</li> <li>SCBA / Supplied Air Respiratory Protection</li> </ul>                                         |





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#### **ACTIVITY HAZARD ANALYSIS / SUMMARY**

| ITEM                            | HAZARD                                                                                                                               | PREVENTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Behavioral Based Safety         | Hazard Identification Stop Work Authority Near Miss                                                                                  | <ul> <li>Immediate supervisor will remind their crews of their Authority and Responsibility to Stop work and contact their supervisor if they discover a hazard</li> <li>Safety officer to coordinate with work crew safety leads</li> <li>Daily HASP / Tailgate meetings will be conducted with the crew.</li> <li>Report all near misses, at risk conditions on the job site, or at-risk actions by crew member. Discuss all reported near misses during the post job briefing and during Daily HASP / Tailgate meetings.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Mooring M/V                     | Struck by Pinched by Fall into water                                                                                                 | <ul> <li>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.</li> <li>When mooring the vessel, keep hands, fingers, arms, and all other body parts from between the mooring line and the bits on the dock.</li> <li>Never perform this task alone and all personnel within 5' of the docks edge are required to wear a USCG approved PFD.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Connecting Hoses                | Caught / pinched by Back / muscle strain Slip / Trip / Fall                                                                          | <ul> <li>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.</li> <li>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.</li> <li>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.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Energizing pneumatic equipment  | Hose whipping  Air Leak  Noise levels above 85 decibels                                                                              | <ul> <li>Ensure all connections have whip checks and safety clips in place prior to energizing air lines.</li> <li>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.</li> <li>Hearing protection required for pneumatic equipment.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Transfer of recovered crude oil | Spill / spray crude oil on employee.  Overfilling of frac tank  Overcome by vapors  Hydrogen Sulfide (H2S) Detected during transfer. | <ul> <li>All hose connections shall be secured with safety clips, then wrapped in sorbent pads and duct tape and rope to prevent spills or contamination of individuals. There will be no hose connections over water and all connections will also be in secondary containment.</li> <li>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.</li> <li>Crude oil is a mixture of all sorts of hydrocarbons. Among them can be benzene, hydrogen sulfide, and other chemicals. There will be a properly calibrated and bump tested 4-gas meter with PID on site during transfer to ensure vapors aren't present. If vapors become an issue, all work will stop and PPE will be upgraded according to the chart found on page 5 of this document.</li> <li>All personnel involved in the transfer process will be wearing a personal H2S Detector worn in their breathing zone.</li> <li>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</li> </ul> |





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| ITEM                             | HAZARD                                                                                | PREVENTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                  |                                                                                       | <ul> <li>personnel from the area during the transfer. There will be support personnel upwind with SAR capabilities on site for rescue purposes during this operation.</li> <li>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.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Transfer of oil into transporter | Spill / spray crude oil on employee.  Overfilling of frac tank  Overcome by vapors    | <ul> <li>All hose connections shall be secured with safety clips, then wrapped in sorbent pads and duct tape and rope to prevent spills or contamination of individuals. There will be no hose connections over water and all connections will also be in secondary containment.</li> <li>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.</li> <li>Crude oil is a mixture of all sorts of hydrocarbons. Among them can be benzene, hydrogen sulfide, and other chemicals. There will be a properly calibrated and bump tested 4-gas meter with PID on site during transfer to ensure vapors aren't present. If vapors become an issue, all work will stop and PPE will be upgraded according to the chart found on page 5 of this document.</li> </ul> |
| Incident Reporting               | First Aid OSHA Recordable Medical Only Near Miss                                      | <ul> <li>Employees immediately report all incidents to their immediate supervisor.</li> <li>The immediate supervisor will immediately report the incident to the site safety professional, HSEQ Manager, and Project Manager.</li> <li>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.</li> <li>The supervisor will complete a root cause analysis of all reported incidents and submit to the HSEQ manager within 8 hours of an incident.</li> <li>Determination will be made regarding need for post-incident drug and alcohol testing based on NRC policy.</li> <li>Contact HSEQ Manager for proper USCG reports, if needed and what report is needed.</li> </ul>                                                                        |
| Prolonged exposure to elements   | Dehydration Hypothermia Hyperthermia                                                  | <ul> <li>If Tyvek is not required, long sleeve shirts should be worn to cover skin.</li> <li>Rain suits should be worn in lieu of chemical protective coveralls during inclement weather</li> <li>Drink plenty of fluids.</li> <li>Appropriate clothing should be worn based on weather conditions.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Break time                       | Ingestion<br>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<br>with COVID-19 could<br>spread it to others in<br>the work area. | <ul> <li>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.</li> <li>If any employee is displaying symptoms related to COVID19</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |





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| ITEM                          | HAZARD                                                                                      | PREVENTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                               |                                                                                             | <ul> <li>they will be removed from work and follow the US Ecology / NRC return to work guidance issued by corporate.</li> <li>The Symptoms in question are Fever (Above 100.4F, Dry Cough, and Shortness of breath)</li> <li>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.</li> <li>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.</li> <li>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.</li> </ul> |
| NRC INCIDENT REPORTING POLICY | First Aid     OSHA recordable     Illness/Injury     Near Miss     Equipment/Vehicle Damage | <ul> <li>NRC employees and subcontractors are required to immediately report all incidents to their supervisor.</li> <li>The immediate supervisor will immediately report the incident to the site safety professional, HSEQ Manager, and Project Manager.</li> <li>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.</li> <li>The supervisor will complete a root cause analysis of all reported incidents and submit to the HSEQ manager within 8 hours of an incident.</li> <li>Determination will be made regarding need for post-incident drug and alcohol testing based on NRC policy.</li> <li>Contact HSEQ Manager for proper USCG reports, if needed and what report is needed.</li> </ul>                                                                                                                                                                                                                                                  |
|                               |                                                                                             | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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|                               |                                                                                             | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                               |                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                               |                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                               |                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |





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#### MINIMUM SAFETY EQUIPMENT REQUIRED

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

## TRAINING / DOCUMENTATION REQUIREMENTS

| 1 | HAZWOPER 40                | 1         | Hazwoper Supervisor       | 1   | Current 8 Hour Refresher                              |  |  |
|---|----------------------------|-----------|---------------------------|-----|-------------------------------------------------------|--|--|
| 1 | First Aid /CPR             |           | Confined Space Supervisor | 1   | Current Medical Fitness For Duty                      |  |  |
|   | NRC Confined Space         |           | t                         |     | NRC Confined Space Rescue                             |  |  |
| 1 | API Safe Rigging Practices |           |                           | 1   | Documentation of compliance with Drug Free Work Place |  |  |
|   | Competent Fire Wat         | tch Desig | gnated Personnel          | 411 | Qualified Pressure Washer Operator                    |  |  |





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#### **DECONTAMINATION AND DISPOSAL**

|                                                                                                                                                                                                                                                                                                                                                            | ATION EQUIPMENT                                                                                                                                                                                                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul> <li>Visqueen on Ground</li> <li>Carpet on Ground</li> <li>Wooden Pallets</li> <li>Decon Pool / wash boots</li> <li>Boot brushes</li> <li>Decon Pool Rinse Boots</li> <li>Respirator wash bucket</li> <li>Respirator rinse bucket</li> <li>Drying stands or platforms for respirators after washing</li> <li>Wipe rags to clean respirators</li> </ul> | Rags for cleaning - wiping Labeled Drums for disposal items Chairs to sit on for PPE removal Plastic zip-lock bags for personal sample pumps Water to wash face / hands Decontamination Assistant Barrier stands Caution tape to designate decon area Shower |
| PERSONNEL DECO                                                                                                                                                                                                                                                                                                                                             | ONTAMINATION PLAN                                                                                                                                                                                                                                            |
| Onzip suit / pull off hood Roll down suit / inside out and place into labeled contain Remove respirator Use wipes to clean Store respirators in plastic bags after drying Remove inner gloves PPE and debris will be bagged, accounted for, and bulk Store respirators in individual plastic bags with employed                                            | exterior of PPE prior to dry decon (stage 1 decon) ers removed to waste bin at end of each shift and leather outer gloves may be reuse if still in good condition) iner ed into the applicable waste bin or container ee names                               |
|                                                                                                                                                                                                                                                                                                                                                            | AGEMENT PLAN                                                                                                                                                                                                                                                 |
| Contaminated disposable PPE & debris from operation s                                                                                                                                                                                                                                                                                                      | shall be placed in an approved container                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                              |





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#### SITE LAYOUT

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

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

See Facility Map





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#### **EMERGENCY MEDICAL TREATMENT AND FIRST AID**

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

#### **ACCIDENT REPORTING**

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





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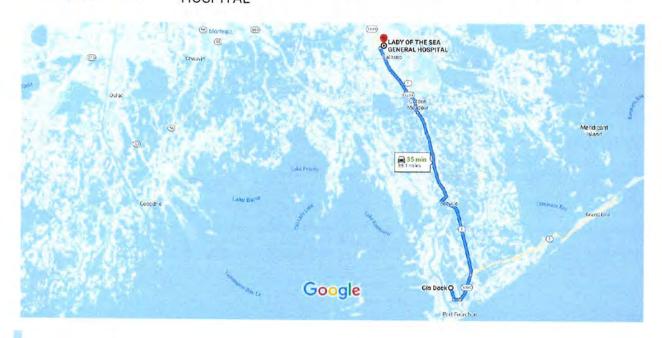
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#### **Hospital Route**

Google Maps

Gis Dock to LADY OF THE SEA GENERAL HOSPITAL

Drive 28.1 miles, 35 min





via LA-1 and LA-3235

35 min

Fastest route, the usual traffic A This route has restricted usage or

28.1 miles

private roads.





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#### SAFETY PLAN APPROVAL

Site Safety Officer Jesse Bridges

Date 5-21-2023

# ACKNOWLEDGMENTS (signed by all NRC site personnel) I have read and understand the topics outlined on all pages of this HASP and will follow all the required safety rules. \*\*I am aware that I am to sign in at the beginning of the shift and sign out at the end of my shift on the Daily Safety Meeting form. I must notify the on site supervisor of any injury /accident/ near miss that I had or observed during my shift\*\* I understand that I have the right to stand down for Safety and report any potential hazards to the NRC Site Supervisor. After an injury/accident/near miss is reported, the Site Supervisor must call the H & S Manager at Date **Print Name** Signature

De Cont

MCDO # 50

1 Track



#### SAFETY MANAGEMENT SYSTEM

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Job Hazard Analysis

| TASK DESC                                                                                                                                                                                                                                                                                                                                                                                                                                        | RIPTION: MC                                                         | 20 Recovered Crude Oil / Vesse                                                                                                                                                                                                                                        | to Shore Transfer                                                                                                                                                                                                                                                                                                                                                                        | 6-5-2623                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                     | SUMMARY OF POTENTIAL HA                                                                                                                                                                                                                                               | ZARDS (Check applicable)                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                 |
| Heavy or a movement                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                     |                                                                                                                                                                                                                                                                       | een 🛮 Working                                                                                                                                                                                                                                                                                                                                                                            | and walking surfaces; slip, trip, fall                                                                                                                          |
| ☐ New / Inex                                                                                                                                                                                                                                                                                                                                                                                                                                     | perienced employe                                                   | ees Spill / containment                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                          | ess environment                                                                                                                                                 |
| Struck by o                                                                                                                                                                                                                                                                                                                                                                                                                                      | r crush hazard                                                      | ☑ Noise levels (>85 dBA)                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                 |
| Hazardous                                                                                                                                                                                                                                                                                                                                                                                                                                        | liquids, vapors, wa                                                 | ste 🔲 Elevated surfaces / Fall / Lac                                                                                                                                                                                                                                  | ders                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                     | APPLICABLE REGULATION                                                                                                                                                                                                                                                 | N / SOPS / ALERTS                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                 |
| ☐ SMS 19.2 V                                                                                                                                                                                                                                                                                                                                                                                                                                     | acuum Trucks                                                        |                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                     | MINIMUM PERSONAL PROTECTIVE                                                                                                                                                                                                                                           | EQUIPMENT (Check applicab                                                                                                                                                                                                                                                                                                                                                                | le)                                                                                                                                                             |
| Level A Level B Level C Level D                                                                                                                                                                                                                                                                                                                                                                                                                  | □ Hard Hat     □ Safety Glasse     □ Face Shield     □ Hearing Prot | ☐ Chemical protective clothing                                                                                                                                                                                                                                        | □ Leather Steel Toe Boo     □ Disposable boot cove     □ Neoprene Steel Toe B     □ Gloves:                                                                                                                                                                                                                                                                                              | rs                                                                                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                     | JOB HAZARD                                                                                                                                                                                                                                                            | ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                  | b Steps                                                             | Potential Hazards                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                          | ve Measures / Special PPE                                                                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                  | bb Meetings<br>vior Based Safety                                    | <ul> <li>Personnel do not understand the operational plan, relevant hazards or their roles/responsibilities</li> <li>Personnel do not stop work when hazards are identified</li> <li>Personnel do not report injuries, illnesses, near misses or incidents</li> </ul> | to all involved p<br>will be encourage<br>any project deta<br>Immediate super<br>Authority and R<br>supervisor if the                                                                                                                                                                                                                                                                    | visor will remind their crews of their<br>esponsibility to Stop work and contact their<br>ey discover a hazard<br>instructed to report any injuries, illnesses, |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                  | urvey and<br>ment Set-up                                            | <ul> <li>Uneven working surfaces and trip hazards.</li> <li>Equipment not certified, not tested or damaged</li> <li>Improper set-up due to untrained or unqualified personnel</li> </ul>                                                                              | correct unsafe conditions. Position equipment and hated away from travel paths. Identify "no-go" areas.  • All equipment will be inspected for current certification.                                                                                                                                                                                                                    |                                                                                                                                                                 |
| stru veh • Veh mov                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                     | struck or crushed by moving vehicles or equipment  Vehicles not inspected prior to movements. Unsafe for travel.                                                                                                                                                      | <ul> <li>Ground guides will be used for equipment movemed Non-essential personnel will clear the travel path path will be confirmed as clear prior to movemen</li> <li>Vehicles will be inspected by drivers prior to travel after travel for potential damage.</li> <li>Vehicles will be inspected to ensure that there are loose items and that loads are secured properly.</li> </ul> |                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ing Vessel and<br>ing near water                                    | <ul> <li>Personnel struck by thrown lines or caught in "line of fire".</li> <li>Personnel pinched or crushed during vessel movements.</li> <li>Personnel fall into the water. Man overboard.</li> </ul>                                                               | to fall on the ground and pick them up. Do not catch mooring lines from the M/V.  When mooring the vessel, keep hands, fingers, are other body parts from between the mooring line.                                                                                                                                                                                                      |                                                                                                                                                                 |
| <ul> <li>Connecting hoses</li> <li>Personnel crushed or pinched while connecting transfer hoses.</li> <li>Personnel suffer back strain or other ergonomic related injuries during connections or moving hoses</li> <li>Identify, communicate and average including cam-lock connection parts or equipment</li> <li>Transfer hoses can be heavy hoses employees shall use princluding keeping your back as lifting with your knees and</li> </ul> |                                                                     | nicate and avoid all crush/pinch points: ock connections, vehicles and other moving tent can be heavy and when handling these es shall use proper ergonomic practices ng your back as straight as possible as well                                                    |                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                 |





#### Job Hazard Analysis

| O Job Steps                                                      | Potential Hazards                                                                                                                                                                                                                                                                  | Preventive Measures / Special PPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                  |                                                                                                                                                                                                                                                                                    | awareness when walking in the dock area. Try to run hoses in an area that is out of the normal walking path and go around if possible                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <ol> <li>Working in po-<br/>hazardous<br/>atmospheres</li> </ol> | Personnel exposed to hazards related to hazardous atmosphere:     Ignition sources create potential for explosive conditions     Personnel not equipped to suppress inciplent fire                                                                                                 | <ul> <li>Calibrated multi-gas meters/detectors will be used to confir</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <ol> <li>Energizing pne<br/>equipment</li> </ol>                 | 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                                                            | <ul> <li>All pressurized hoses will have whip checks and safety clips installed prior to energizing. All pneumatic hoses will be inspected prior to use.</li> <li>Pumping operations will be stopped immediately if leaks are detected during operations. Defective hoses will be replaced with new hoses/whips.</li> <li>Hearing protection will be worn in all areas where highnoise machinery and equipment is being operated.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Transfer of recorde oil                                          | Personnel contacted by crude oil spray or environmental release.     Overfilling tank resulting in spills     Personnel overcome by potentially hazardous vapors                                                                                                                   | <ul> <li>All transfer hoses used will be inspected, certified and teste<br/>prior to use. They will be secured with safety clips and<br/>wrapped with absorbent pads and duct tape. Polypropylen</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 9. Transfer of oil transporter                                   | <ul> <li>Personnel contacted by crude oil spray or environmental release</li> <li>Overfilling transportation vessel resulting in spills</li> <li>Personnel overcome by potentially hazardous vapors</li> <li>Fall hazards present if personnel are working above 6 feet</li> </ul> | <ul> <li>All transfer hoses used will be inspected, certified and teste prior to use. They will be secured with safety clips and wrapped with absorbent pads and duct tape. Polypropylen line will be used as an added retention measure. Personne will wear Level D PPE and increase protection as appropriate. Spill control kits/supplies will be available on site.</li> <li>Prior to transfer the amount of product that can be accepte will be calculated and the PIC will ensure that there is ample room to handle the transferred product.</li> <li>Crude oil is a mixture of various hydrocarbons. Among ther 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</li> </ul> |



|                                                 |                                                                                                                                                                                                                                       | IT'S THE WAY TO GO!                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                 | Job Hazard Ana                                                                                                                                                                                                                        | alysis Revision: 08/2015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Job Steps                                       | Potential Hazards                                                                                                                                                                                                                     | Preventive Measures / Special PPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                 |                                                                                                                                                                                                                                       | detected. PPE will be upgraded according to the concentration of hazards detected.  If personnel will work at heights above 6': fall protection with be worn and a rescue plan will be in place.  Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Prolonged exposure to<br>elements (Heat Stress) | Inadequate hydration     Extended work periods without rest resulting in heat stress                                                                                                                                                  | <ul> <li>Personnel will be encouraged to hydrate frequently. Water sports drink ratio will be 3:1 (1 sports drink to 3 waters consumed).</li> <li>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).</li> </ul>                                                                                                                                                                           |
| 11. Break time                                  | <ul> <li>Potential for ingestion of petroleum product or other contaminants.</li> <li>Fire hazards from unrestricted smoking</li> <li>Direct sun reduces recovery time for workers during breaks</li> <li>Inadequate water</li> </ul> | <ul> <li>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.</li> <li>Only smoke in designated areas.</li> <li>Ensure that break areas have adequate shade and cooling potential for personnel</li> <li>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.</li> </ul>                                                                                                                                                                                                                                                                                                                                              |
| 12. Decontaminate<br>Personnel                  | Potential for secondary contamination by absorption, injection, or ingestion                                                                                                                                                          | <ul> <li>Follow decontamination plan for clothing removal and disposal when protective outerwear is required and becomes contaminated.</li> <li>Only use safety scissors (never knives) to cut Tyvek from personnel.</li> <li>Ensure that workers wash hands and face thoroughly.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| NRC INCIDENT REPORTING POLICY                   | First Aid OSHA recordable Illness/Injury Near Miss Equipment/Vehicle Damage                                                                                                                                                           | <ul> <li>NRC employees and subcontractors are required to immediately report all incidents to their supervisor.</li> <li>The immediate supervisor will immediately report the incident to the site safety professional, HSEQ Manager, and Project Manager.</li> <li>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.</li> <li>The supervisor will complete a root cause analysis of all reported incidents and submit to the HSEQ manager within hours of an incident.</li> <li>Determination will be made regarding need for post-inciden drug and alcohol testing based on NRC policy.</li> <li>Contact HSEQ Manager for proper USCG reports, if needed and what report is needed.</li> </ul> |

#### REVIEW

| <b>Development Team</b> | Position/Title | Reviewed By | Position/Title | Date    |
|-------------------------|----------------|-------------|----------------|---------|
|                         |                |             |                | 7/27/20 |
|                         |                |             | On             | 10-5-23 |

#### ACKNOWLEDGEMENT

| Employee Name | Signature | Date   |
|---------------|-----------|--------|
|               |           | 6-5-23 |
|               |           | 6-5-23 |
|               |           | 6.5.33 |



SAFETY IT'S THE WAY TO GO!

Job Hazard Analysis

Revision: 08/2015

6.5.23

3-Trucks ACC



#### SAFETY MANAGEMENT SYSTEM

Job Hazard Analysis

Revision: 08/2015 TASK DESCRIPTION: MC 20 Recovered Crude Oil / Vessel to Shore Transfer 6-6-2023 SUMMARY OF POTENTIAL HAZARDS (Check applicable) Heavy or awkward lifting / Pinch Points or caught between Working and walking surfaces; slip, trip, fall movement ■ New / Inexperienced employees Spill / containment Heat stress environment Struck by or crush hazard Noise levels (>85 dBA) Hazardous liquids, vapors, waste Elevated surfaces / Fall / Ladders APPLICABLE REGULATION / SOPS / ALERTS SMS 19.2 Vacuum Trucks MINIMUM PERSONAL PROTECTIVE EQUIPMENT (Check applicable) Level A Mard Hat High Visibility Vest □ Leather Steel Toe Boots PFD / Work vest Level B Safety Glasses □ Long Sleeves / Coveralls ☐ Disposable boot covers Level C Face Shield ☐ Chemical protective clothing ☐ Neoprene Steel Toe Boots X Level D Hearing Protection ☐ Gloves:\_ Respirator: JOB HAZARD ANALYSIS O Job Steps Potential Hazards Preventive Measures / Special PPE Pre-job Meetings Personnel do not understand the The operational plan, hazards and controls will be explained to all involved personnel in Safety/Ops meeting, Personnel Behavior Based Safety operational plan, relevant hazards will be encouraged to ask questions if they are unsure of or their roles/responsibilities any project details Personnel do not stop work when Immediate supervisor will remind their crews of their hazards are identified Authority and Responsibility to Stop work and contact their Personnel do not report injuries, supervisor if they discover a hazard illnesses, near misses or incidents Personnel will be instructed to report any injuries, illnesses, near misses or incidents Site Survey and Uneven working surfaces and trip Inspect site for correctable walking surface hazards. Flag or Equipment Set-up hazards. correct unsafe conditions. Position equipment and hoses Equipment not certified, not tested away from travel paths. Identify "no-go" areas. or damaged All equipment will be inspected for current certifications, Improper set-up due to untrained testing and serviceable working condition prior to work or unqualified personnel Personnel will be pre-selected to perform tasks based on verified competency Vehicle movements Personnel, equipment or hoses Ground guides will be used for equipment movements. struck or crushed by moving Non-essential personnel will clear the travel path. Travel vehicles or equipment path will be confirmed as clear prior to movements. Vehicles not inspected prior to Vehicles will be inspected by drivers prior to travel and movements. Unsafe for travel. after travel for potential damage. Unsecured items create dropped Vehicles will be inspected to ensure that there are no object or road hazards. loose items and that loads are secured properly. Mooring Vessel and Personnel struck by thrown lines or When tossing the mooring lines to the shore allow the lines working near water to fall on the ground and pick them up. Do not attempt to caught in "line of fire". catch mooring lines from the M/V. Personnel pinched or crushed When mooring the vessel, keep hands, fingers, arms, and all during vessel movements. other body parts from between the mooring line and the Personnel fall into the water. Man bits on the dock overboard. Never work alone. All personnel within 5' of the docks edge are required to wear a USCG approved PFD. Always discuss "man overboard" procedures prior to work. Have life ring and recovery plan in place. Connecting hoses Identify, communicate and avoid all crush/pinch points: Personnel crushed or pinched including cam-lock connections, vehicles and other moving while connecting transfer hoses. parts or equipment

Personnel suffer back strain or

during connections or moving

other ergonomic related injuries

Slip/trip/fall hazards while working

Transfer hoses can be heavy and when handling these

hoses employees shall use proper ergonomic practices

as lifting with your knees and not your back

Observe good housekeeping and maintain situational

including keeping your back as straight as possible as well



Revision: 08/2015

Job Hazard Analysis

| Job Steps                                              | Potential Hazards                                                                                                                                                                                                                                                                  | Preventive Measures / Special PPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                        |                                                                                                                                                                                                                                                                                    | awareness when walking in the dock area. Try to run<br>hoses in an area that is out of the normal walking path and<br>go around if possible                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 6. Working in potentially hazardous atmospheres        | Personnel exposed to hazards related to hazardous atmospheres. Ignition sources create potential for explosive conditions Personnel not equipped to suppress incipient fire                                                                                                        | <ul> <li>Calibrated multi-gas meters/detectors will be used to confire 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</li> <li>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.</li> <li>Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <ol> <li>Energizing pneumatic<br/>equipment</li> </ol> | 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                                                                    | <ul> <li>All pressurized hoses will have whip checks and safety clips installed prior to energizing. All pneumatic hoses will be inspected prior to use.</li> <li>Pumping operations will be stopped immediately if leaks are detected during operations. Defective hoses will be replaced with new hoses/whips.</li> <li>Hearing protection will be worn in all areas where highnoise machinery and equipment is being operated.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 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                                                                                                                           | <ul> <li>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. Personne will wear Level D PPE and increase protection as appropriate. Spill control kits/supplies will be available on site. The DOI Declaration of Inspection will be completed prior to operations.</li> <li>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.</li> <li>Crude oil is a mixture of various hydrocarbons. Among then can be benzene, hydrogen sulfide, and other chemicals. There will be a properly calibrated and bump tested 4-gas meter on site during transfer to ensure vapors aren't present. All work will stop if hazardous gasses are detected. PPE will be upgraded according to the concentration of hazards detected.</li> <li>If personnel will work at heights above 6': fall protection will be worn and a rescue plan will be in place.</li> <li>Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.</li> </ul> |
| 9. Transfer of oil into transporter                    | <ul> <li>Personnel contacted by crude oil spray or environmental release</li> <li>Overfilling transportation vessel resulting in spills</li> <li>Personnel overcome by potentially hazardous vapors</li> <li>Fall hazards present if personnel are working above 6 feet</li> </ul> | <ul> <li>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.</li> <li>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.</li> <li>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</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                       |



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Job Hazard Analysis

Revision: 08/2015

| Job Steps                                    | Potential Hazards                                                                                                                                                                      | Preventive Measures / Special PPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                              |                                                                                                                                                                                        | <ul> <li>detected. PPE will be upgraded according to the concentration of hazards detected.</li> <li>If personnel will work at heights above 6': fall protection will be worn and a rescue plan will be in place.</li> <li>Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Prolonged exposure to elements (Heat Stress) | <ul> <li>Inadequate hydration</li> <li>Extended work periods without rest resulting in heat stress</li> </ul>                                                                          | <ul> <li>Personnel will be encouraged to hydrate frequently. Water to sports drink ratio will be 3:1 (1 sports drink to 3 waters consumed).</li> <li>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).</li> </ul>                                                                                                                                                                          |
| 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 | <ul> <li>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.</li> <li>Only smoke in designated areas.</li> <li>Ensure that break areas have adequate shade and cooling potential for personnel</li> <li>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.</li> </ul>                                                                                                                                                                                                                                                                                                                                                |
| 12. Decontaminate<br>Personnel               | Potential for secondary contamination by absorption, injection, or ingestion                                                                                                           | <ul> <li>Follow decontamination plan for clothing removal and disposal when protective outerwear is required and becomes contaminated.</li> <li>Only use safety scissors (never knives) to cut Tyvek from personnel.</li> <li>Ensure that workers wash hands and face thoroughly.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| NRC INCIDENT REPORTING POLICY                | First Aid OSHA recordable Illness/Injury Near Miss Equipment/Vehicle Damage                                                                                                            | <ul> <li>NRC employees and subcontractors are required to immediately report all incidents to their supervisor.</li> <li>The immediate supervisor will immediately report the incident to the site safety professional, HSEQ Manager, and Project Manager.</li> <li>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.</li> <li>The supervisor will complete a root cause analysis of all reported incidents and submit to the HSEQ manager within thours of an incident.</li> <li>Determination will be made regarding need for post-incident drug and alcohol testing based on NRC policy.</li> <li>Contact HSEQ Manager for proper USCG reports, if needed and what report is needed.</li> </ul> |

#### REVIEW

|                  |                | 13-33-33      |                |         |
|------------------|----------------|---------------|----------------|---------|
| Development Team | Position/Title | Reviewed By   | Position/Title | Date    |
|                  |                |               |                | 7/27/20 |
|                  |                |               | for            | C-8-23  |
|                  | AC             | KNOWLEDGEMENT |                |         |

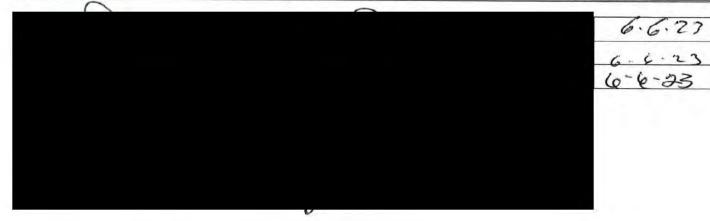
| Employee Name | Signature | Date   |
|---------------|-----------|--------|
|               |           | 6-6-23 |
|               |           | 6-6-23 |
|               |           | 6.6 48 |
|               |           |        |





Job Hazard Analysis

Revision: 08/2015



Truck - Doc



#### SAFETY MANAGEMENT SYSTEM

Revision: 08/2015 Job Hazard Analysis 6-7-2023 TASK DESCRIPTION: MC 20 Recovered Crude Oil / Vessel to Shore Transfer SUMMARY OF POTENTIAL HAZARDS (Check applicable) Heavy or awkward lifting / Pinch Points or caught between Working and walking surfaces; slip, trip, fall movement ☐ New / Inexperienced employees Spill / containment Meat stress environment Struck by or crush hazard Noise levels (>85 dBA) Hazardous liquids, vapors, waste Elevated surfaces / Fall / Ladders **APPLICABLE REGULATION / SOPS / ALERTS** SMS 19.2 Vacuum Trucks MINIMUM PERSONAL PROTECTIVE EQUIPMENT (Check applicable) Level A Mard Hat High Visibility Vest Leather Steel Toe Boots PFD / Work vest Level B Safety Glasses □ Long Sleeves / Coveralls ☐ Disposable boot covers Level C Face Shield Chemical protective clothing Neoprene Steel Toe Boots X Level D Hearing Protection ☐ Gloves: Respirator: JOB HAZARD ANALYSIS Job Steps Potential Hazards Preventive Measures / Special PPE Pre-job Meetings The operational plan, hazards and controls will be explained Personnel do not understand the to all involved personnel in Safety/Ops meeting. Personnel **Behavior Based Safety** operational plan, relevant hazards will be encouraged to ask questions if they are unsure of or their roles/responsibilities any project details Personnel do not stop work when Immediate supervisor will remind their crews of their hazards are identified Authority and Responsibility to Stop work and contact their Personnel do not report injuries, supervisor if they discover a hazard illnesses, near misses or incidents Personnel will be instructed to report any injuries, illnesses, near misses or incidents Site Survey and Uneven working surfaces and trip Inspect site for correctable walking surface hazards. Flag or **Equipment Set-up** correct unsafe conditions. Position equipment and hoses hazards. Equipment not certified, not tested away from travel paths. Identify "no-go" areas. or damaged All equipment will be inspected for current certifications, Improper set-up due to untrained testing and serviceable working condition prior to work or unqualified personnel Personnel will be pre-selected to perform tasks based on verified competency Vehicle movements Personnel, equipment or hoses Ground guides will be used for equipment movements. struck or crushed by moving Non-essential personnel will clear the travel path. Travel vehicles or equipment

Mooring Vessel and working near water

Connecting hoses

object or road hazards. Personnel struck by thrown lines or caught in "line of fire". Personnel pinched or crushed

Vehicles not inspected prior to

movements. Unsafe for travel.

Unsecured items create dropped

- during vessel movements. Personnel fall into the water. Man overboard.
- Personnel crushed or pinched while connecting transfer hoses.
- Personnel suffer back strain or other ergonomic related injuries during connections or moving Slip/trip/fall hazards while working

- 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. 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.
- Identify, communicate and avoid all crush/pinch points: including cam-lock connections, vehicles and other moving parts or equipment
- Transfer hoses can be heavy and when handling these hoses employees shall use proper ergonomic practices including keeping your back as straight as possible as well as lifting with your knees and not your back Observe good housekeeping and maintain situational



# Revision: 08/2015

Job Hazard Analysis

| Job Steps                                       | Potential Hazards                                                                                                                                                                                                                                                                  | Preventive Measures / Special PPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
|                                                 |                                                                                                                                                                                                                                                                                    | awareness when walking in the dock area. Try to run<br>hoses in an area that is out of the normal walking path and<br>go around if possible                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |
| 6. Working in potentially hazardous atmospheres | Personnel exposed to hazards related to hazardous atmospheres. Ignition sources create potential for explosive conditions Personnel not equipped to suppress incipient fire                                                                                                        | <ul> <li>Calibrated multi-gas meters/detectors will be used to confire 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</li> <li>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.</li> <li>Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |
| 7. Energizing pneumatic equipment               | <ul> <li>Personnel injured when struck by hoses or pressure during hose connection or fitting failure.</li> <li>Air leaks or blowout causing pressure related injuries.</li> <li>Hearing loss/injury due to noise levels above 85 decibels</li> </ul>                              | <ul> <li>All pressurized hoses will have whip checks and safety clips installed prior to energizing. All pneumatic hoses will be inspected prior to use,</li> <li>Pumping operations will be stopped immediately if leaks are detected during operations. Defective hoses will be replaced with new hoses/whips.</li> <li>Hearing protection will be worn in all areas where highnoise machinery and equipment is being operated.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |
| 8. Transfer of recovered crude oil              | <ul> <li>Personnel contacted by crude oil spray or environmental release.</li> <li>Overfilling tank resulting in spills</li> <li>Personnel overcome by potentially hazardous vapors</li> </ul>                                                                                     | <ul> <li>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.</li> <li>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.</li> <li>Crude oil is a mixture of various hydrocarbons. Among then can be benzene, hydrogen sulfide, and other chemicals. There will be a properly calibrated and bump tested 4-gas meter on site during transfer to ensure vapors aren't present. All work will stop if hazardous gasses are detected. PPE will be upgraded according to the concentration of hazards detected.</li> <li>If personnel will work at heights above 6': fall protection will be worn and a rescue plan will be in place.</li> <li>Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.</li> </ul> |  |  |
| 9. Transfer of oil into transporter             | <ul> <li>Personnel contacted by crude oil spray or environmental release</li> <li>Overfilling transportation vessel resulting in spills</li> <li>Personnel overcome by potentially hazardous vapors</li> <li>Fall hazards present if personnel are working above 6 feet</li> </ul> | <ul> <li>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.</li> <li>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.</li> <li>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</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |





Job Hazard Analysis

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| Job Steps                                    | Potential Hazards                                                                                                                                                                      | Preventive Measures / Special PPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
|                                              |                                                                                                                                                                                        | <ul> <li>detected. PPE will be upgraded according to the concentration of hazards detected.</li> <li>If personnel will work at heights above 6': fall protection will be worn and a rescue plan will be in place.</li> <li>Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |
| Prolonged exposure to elements (Heat Stress) | Inadequate hydration     Extended work periods without rest resulting in heat stress                                                                                                   | <ul> <li>Personnel will be encouraged to hydrate frequently. Water to sports drink ratio will be 3:1 (1 sports drink to 3 waters consumed).</li> <li>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).</li> </ul>                                                                                                                                                                           |  |  |
| 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 | <ul> <li>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.</li> <li>Only smoke in designated areas.</li> <li>Ensure that break areas have adequate shade and cooling potential for personnel</li> <li>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.</li> </ul>                                                                                                                                                                                                                                                                                                                                                 |  |  |
| 12. Decontaminate<br>Personnel               | Potential for secondary contamination by absorption, injection, or ingestion                                                                                                           | <ul> <li>Follow decontamination plan for clothing removal and disposal when protective outerwear is required and becomes contaminated.</li> <li>Only use safety scissors (never knives) to cut Tyvek from personnel.</li> <li>Ensure that workers wash hands and face thoroughly.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |
| NRC INCIDENT REPORTING POLICY                | First Aid     OSHA recordable     Illness/Injury     Near Miss     Equipment/Vehicle Damage                                                                                            | <ul> <li>NRC employees and subcontractors are required to immediately report all incidents to their supervisor.</li> <li>The immediate supervisor will immediately report the incident to the site safety professional, HSEQ Manager, and Project Manager.</li> <li>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.</li> <li>The supervisor will complete a root cause analysis of all reported incidents and submit to the HSEQ manager within 8 hours of an incident.</li> <li>Determination will be made regarding need for post-incident drug and alcohol testing based on NRC policy.</li> <li>Contact HSEQ Manager for proper USCG reports, if needed and what report is needed.</li> </ul> |  |  |

#### REVIEW

| Development Team | Position/Title | Reviewed By | Position/Title | Date    |
|------------------|----------------|-------------|----------------|---------|
|                  |                |             |                | 7/27/20 |
|                  |                |             | PM             | 6-7-20  |

| Employee Name | N | Signature | Date   |
|---------------|---|-----------|--------|
|               |   |           | 6-7-23 |
|               |   |           | 6-7-23 |



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Job Hazard Analysis

6-7-23

6.7.23

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