

**From:** [Schnipke, Kristen L.](#)  
**To:** [Stancil Paul](#)  
**Cc:** [Colletti Alexandria](#); [Martinez, Aaron W.](#)  
**Subject:** RE: IR #21 Update - Marathon Pipe Line  
**Date:** Friday, July 29, 2022 3:14:37 PM  
**Attachments:** [image001.png](#)

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Paul,

Please see IR#21 request and MPL updated response below.

**NTSB IR #21 Request:**

Can you provide us the status for IR #21 – oil recovery amount corrected for water volume? Just to reiterate, we are anticipating a breakdown of the amount of free liquid oil and an estimated amount of oil contained in removed solid wastes (sediment and debris).

**MPL 07/29/2022 Updated Response:**

- **3,500 Total Barrels Released**
  - Total Oil **Recovered 3,362 Total Barrels Oil** (3,245 + 117)
    - Free product recovered by vacuum truck operations 3,245 barrels oil (*note, recent tank gauging allowed for further separation and an increase in oil*)
    - Recovered via excavation and removal of solid waste 117 barrels oil
  - **96% Recovery** (3,362 barrels oil/3,500 barrels oil)
- Total Waste Removed from Site (as of 07/29/2022)
  - All waste has been removed from the site
  - Non-Hazardous Soil: 17,464 tons
  - Debris: 1,188 tons
  - Absorbents: 80 tons
  - Reclaim Soil: 60 tons estimated

Thanks,  
Kristen

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**From:** Colletti Alexandria <[REDACTED]@gov>  
**Sent:** Tuesday, June 7, 2022 10:44 AM  
**To:** Martinez, Aaron W. <[REDACTED]>  
**Cc:** Lyons Sara <[REDACTED]@gov>; Stancil Paul <[REDACTED]>  
**Subject:** [EXTERNAL] RE: IR #21 - Marathon Pipe Line

Hi Aaron,

I've spoken with Paul, and this meets his needs. If an estimate of the oil in the solid waste becomes available, we would like to see that. Otherwise, this will work for us.

Thank you,  
Alex

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**From:** Martinez, Aaron W. <[REDACTED]>  
**Sent:** Tuesday, June 7, 2022 10:02 AM  
**To:** Colletti Alexandria <[REDACTED]>  
**Cc:** Lyons Sara <[REDACTED]>; Martinez, Aaron W.  
<[REDACTED]>  
**Subject:** IR #21 - Marathon Pipe Line

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Alex/Sara,

**NTSB IR #21 Request:**

Can you provide us the status for IR #21 – oil recovery amount corrected for water volume? Just to reiterate, we are anticipating a break down of the amount of free liquid oil and an estimated amount of oil contained in removed solid wastes (sediment and debris).

**MPL Response:**

- Free Product Recovered **2,578 total barrels oil** (2,458 + 120)
  - MPL Wood River Tank 1297 contains total of 19,520 barrels of oil/water mixture
    - Water = 17,062 barrels
    - Crude = 2,458 barrels
  - In addition, four frac tanks at Wood River contain a very small amount of crude/water mixture
    - Crude = 120 barrels
- Total Waste Removed from Site (to date)
  - Non-Hazardous Soil: 17,388 tons
  - Debris: 1,188 tons
  - Absorbents: 76 tons



**Aaron W. Martinez**  
**Regulatory Compliance Manager**  
**Marathon Pipe Line LLC**  
19100 Ridgewood Parkway  
San Antonio, Texas 78259  
Office: [REDACTED]  
Mobile: [REDACTED]  
Email: [REDACTED]

## Edwardsville Crude Mass Balance

	<b>Barrels</b>	<b>Gallons</b>
<i>Discharge Volume</i>	<i>3500</i>	147,000
Liquid Recovery	3,245	136,290
Solids Recovery	118	4,956
<b>Total Recovered</b>	<b>3,363</b>	<b>141,246</b>
Evaporation Loss	66	2,764
Mass Accounted For	3,429	144,009
Recoverable (Mass Not Lost to Evaporation)	3,434	144,236
Amount Degraded/Remaining in Environment	71	2,991

**TPH Applied Per Media**

Reclaim Soil	20,000 mg/kg	0.02 (estimate)
Non-haz Soil	1,734 mg/kg	0.001734 (ave from analytical)
C&D	100 mg/kg	0.0001 (estimate)
Absorbents	20,000 mg/kg	0.02 (estimate)

<b><u>Load Identifier</u></b> Reclaim Soil	Load Weight (lbs)	% Soil	Est. Soil Weight
	132,620.00	100.00%	132620
	Product Concentration (lbs)	Product Recovered (gal)	
	2,652.4	372.0	
		BBLs	<b>8.9</b>

<b><u>Load Identifier</u></b> Non-haz Soil	Load Weight (lbs)	% Soil	Est. Soil Weight
	34,775,380.00	50.00%	17387690
	Product Concentration (lbs)	Product Recovered (gal)	
	30,150.3	4,228.6	
		BBLs	<b>100.7</b>

<b><u>Load Identifier</u></b> C&D	Load Weight (lbs)	% C&D	Est. Soil Weight
	2,375,640.00	50.00%	1187820
	Product Concentration (lbs)	Product Recovered (gal)	
	118.8	16.7	
		BBLs	<b>0.4</b>

<b><u>Load Identifier</u></b> Absorbents	Load Weight (lbs)	% Absorbent Material	Est. Absorb Weight
	160,760.00	75.00%	120570
	Product Concentration (lbs)	Product Recovered (gal)	
	2,411.4	338.2	
		BBLs	<b>8.1</b>

Total Gal 4,955.52  
**Total BBLs 117.99**

<b>Liquids from Vacuuming/Skimming Operations</b>	<b>BBLs</b>	<b>Gal</b>	
Crude Level in Tank 1297 After Treating and Dewatering	20,098	844,102	
Crude Level in Tank 1297 3/11/22 Before Loading Liquids from Response	16,335	686,056	
Difference	3,763	158,046	
Total Crude Recovered to be Sent for Refining (Minus Drain-up)	<b>3,245</b>	<b>136,290</b>	*518 Bbls from controlled drain up of pipeline
Water Treated from Tank 1297	16,620	698,030	
Impacted Water Sent for Reclaim	787	33,050	
Total Water Treated or Reclaimed	<b>17,407</b>	<b>731,080</b>	
<b>Total Liquids from Vacuuming/Skimming Overall</b>	<b>20,652</b>	<b>867,370</b>	

  

<b>Other Liquids Treated or Reclaimed</b>	<b>BBLs</b>	<b>Gal</b>	
Wetland Water Treatment	19,219	807,211	
Contact Water from Decontamination Operations	1,161	48,750	

**Evaporation Calculation Summary**

Summation 65 8 BBLs  
 Weight of Oil 7.2 lbs

**Areas:**

Water: 3.6  
 ROW 9.3  
 Wetland 52.9

**Spill Characteristics - Inputs Water**

Spill Observation or Measurement	Value	Format/Units
<b>Date, Time, and Elapsed Time</b>		
Date & time of spill observation (now)	3/12/2022 20:15	mm/dd/yyyy hh:mm
Date & time that spill began (estimate)	3/11/2022 8:15	mm/dd/yyyy hh:mm
Elapsed time to observation	36	hr
<b>Spill setting</b>		
Type of surface where spill occurred	Water	List
<b>Petroleum Liquid Type</b>		
Predominant petroleum liquid type	Crude-heavy (19.2 °API)	List
<b>Spill Dimensions on Water</b>		
Approximate geometric shape of spill	Rectangle	
Maximum length	500	feet
Maximum width	40	feet
Visibility threshold appearance thickness or user specified	User Specified	List
User specified thickness	1,588	µm
<b>Spill Conditions</b>		
Ambient temperature	10	°F
Wind speed	8	mph

**Spill Characteristics - Inputs ROW**

Spill Observation or Measurement	Value	Format/Units
<b>Date, Time, and Elapsed Time</b>		
Date & time of spill observation (now)	3/14/2022 0:00	mm/dd/yyyy hh:mm
Date & time that spill began (estimate)	3/11/2022 8:15	mm/dd/yyyy hh:mm
<b>Spill setting</b>		
Type of surface where spill occurred	Land	List
<b>Petroleum Liquid Type</b>		
Predominant petroleum liquid type	Crude-heavy (19.2 °API)	List
<b>Spill Dimensions on Land</b>		
Soil type	Clay	
Approximate geometric shape of spill	Rectangle	List
Maximum length	100	feet
Maximum width	100	feet
Maximum depth of spill on surface	0.25	inches
<b>Spill Conditions</b>		
Ambient temperature	20	°F
Wind speed	5	mph

**Spill Characteristics - Inputs Wetland**

Spill Observation or Measurement	Value	Format/Units
<b>Date, Time, and Elapsed Time</b>		
Date & time of spill observation (now)	3/15/2022 23:00	mm/dd/yyyy hh:mm
Date & time that spill began (estimate)	3/11/2022 8:15	mm/dd/yyyy hh:mm
Elapsed time to observation	110.8	hr
<b>Spill setting</b>		
Type of surface where spill occurred	Land	List
<b>Petroleum Liquid Type</b>		
Predominant petroleum liquid type	Crude-heavy (19.2 °API)	List
<b>Spill Dimensions on Land</b>		
Soil type	Clay	
Approximate geometric shape of spill	Rectangle	List
Maximum length	230	feet
Maximum width	230	feet
Maximum depth of spill on surface	0.25	inches
<b>Spill Conditions</b>		
Ambient temperature	20	°F
Wind speed	5	mph