



September 15, 2023

Project No. 31406585.016

Ms. Maureen Hatfield

Texas Commission on Environmental Quality
MC-127
VCP-CA Section, Team 1, Remediation Division
P.O. Box 13087
Austin, Texas 78711-3087

**Re: MONTHLY STATUS UPDATE – ENGLEWOOD INTERMODAL YARD – NAPL COLLECTION
SYSTEM/CONCRETE CAP REPAIRS
UNION PACIFIC RAILROAD HOUSTON WOOD PRESERVING WORKS FACILITY
4910 LIBERTY ROAD FACILITY, HOUSTON, TEXAS
POST-CLOSURE CARE PERMIT NO. HW-50343; INDUSTRIAL SWR NO. 31547**

Dear Ms. Hatfield:

WSP USA Inc. (WSP), on behalf of Union Pacific Railroad Company (UPRR), is pleased to provide this monthly status update for August 2023 for inspections conducted at the Englewood Intermodal Yard concrete cap area within the UPRR Houston Wood Preserving Works Facility (the Site). Monthly status updates were requested by the Texas Commission on Environmental Quality (TCEQ) in a letter dated March 20, 2018.

A non-aqueous phase liquid (NAPL) Collection System was installed in the Englewood Intermodal Yard in January 2019 to address the tar-like substance seeps within parking stalls B100 to B109 (for container trailers). The following is a summary of the observations from the weekly inspections of the NAPL Collection System and Englewood Intermodal Yard concrete pavement near the collection system for August 2023 (photographs from the weekly inspections are provided in Attachment A):

- Water levels in NAPL Collection System Sump 1 (B099/B100 stalls), Sump 2 (B103/B104 stalls), and Sump 3 (B107/B108 stalls) were measured at 0 inches, 16.5 inches, and 15.5 inches from top of the manhole, respectively, during the inspection on August 2, 2023 (Photo Nos. 11-13). On August 4, 2023, environmental remediation contractor OMI pumped down all three sumps (Photo No. 15) and transported the profiled water to Delta Water Processing in Houston, TX for disposal. Final shipping documents from the event are included in Attachment B. During the August 9 and 16, 2023 inspections, the water levels in Sump 1 were 42 and 38.5 inches from the top of the manhole, respectively, (Photo Nos. 25 and 42) and were 47 inches from the top of the manholes in Sumps 2 and 3 in during both inspections (Photo Nos 26, 27, 43, and 44). For the remainder of the August inspections, the water levels were 33 inches, 46 inches, and 44-46 inches from the top of the manholes in Sumps 1, 2 and 3, respectively (Photos 56 – 58 and 70 - 72). During the August 2023 inspections, the water in Sump 1 was observed to be brown or dark brown in color (Photo Nos. 11, 25, 42, 56, and 70) and the water in Sump 2 was observed to be light brown (Photo Nos. 12, 26, 43, 57 and 71). In Sump 3, the water

WSP USA
16200 Park Row
Suite 200
Houston, TX 77084

Tel.: +1 281 589-5900
wsp.com

was observed to be clear during inspections on August 2 and 9, 2023 (Photo Nos. 13, and 27), and light brown during the August 16, 23, and 30, 2023 inspections (Photo Nos. 44, 58, and 72). Sheen was observed in Sump 1 during the August 9, 16, 23 and 30, 2023 inspections (Photo Nos. 25, 42, 56, and 70), in Sump 2 during the August 23 and 30, 2023 inspections (Photo Nos. 57 and 71) and in Sump 3 during each of the August inspections (Photo Nos. 13, 27, 44, 58 and 72). No odors were reported during the August inspections.

- The NAPL Collection System sumps (Sumps 1, 2, and 3) have continued to be checked weekly for DNAPL using an interface probe. No measurable NAPL has been detected within the sumps using the interface probe through August 2023. Even though no measurable DNAPL was noted, a hoe has continued to be used to further evaluate the presence of and recover DNAPL, if present, from the bottom of each of the sumps during the weekly inspections. No DNAPL was encountered or recovered from the sumps during August 2023 weekly inspections. A notation on the presence of NAPL in each sump, tabulation of depth and thickness of NAPL if detected, and a tabulation of total mass of NAPL recovered from each sump is provided on the enclosed Table 1. Any NAPL recovered from the sumps is placed in a drum for disposal. The drum is staged at the Container Storage Area (CSA). An accumulation of NAPL on the bottom of the inflow protector in Sump 1 was observed during the inspection on September 14, 2022. The material was removed, and the inflow protector was monitored during subsequent inspections for additional NAPL accumulation. No additional accumulation was observed through August 30, 2023.
- Some small tar-like material seeps were observed on the asphalt or concrete in Stall B107 during the August 2, 9, 16, and 23, 2023 inspections (Photo Nos. 8, 19, 41, and 55). The tar-like material was recovered from these locations when observed.
- For areas outside the NAPL Collection System, a small amount of tar-like material was observed on the concrete or asphalt surface at the following locations during the August 2023 weekly inspections. The tar-like material was recovered from these locations when observed:

Seep Observations Outside the NAPL Collection System Area	
Stall Number	Observation Date(s)
A011	August 2 nd , August 9 th , August 16 th , August 23 rd , August 30 th (Photo Nos. 1, 16, 32, 47, and 61)
A022	August 2 nd , August 9 th , August 16 th , August 23 rd , August 30 th (Photo Nos. 3, 17, 33, 48, and 62)
B042	August 2 nd , August 9 th , August 16 th , August 23 rd , August 30 th (Photo Nos. 4, 21, 34, 49, and 63)
B056	August 9 th , August 16 th , August 23 rd , August 30 th (Photo Nos. 22, 35, 50, and 64)
B057	August 2 nd , August 9 th , August 16 th , August 23 rd (Photo No. 6, 24, and 36)
B100	August 2 nd , August 9 th , August 16 th , August 23 rd , August 30 th (Photo Nos. 9, 28, 37, 52, and 66)

Seep Observations Outside the NAPL Collection System Area	
Stall Number	Observation Date(s)
B102	August 2 nd , August 9 th , August 16 th , August 23 rd , August 30 th (Photo Nos. 10, 30, 38, 51, 53, 65, and 67)
B105	August 30 th (Photo No. 74)
Track 802	August 2 nd , August 9 th , August 16 th , August 23 rd (Photo No. 14, 18 46, 60)
RD-14	August 9 th and August 16 th (Photo Nos. 20, and 45)

- As detailed in the July 2022 Monthly Status Update, a tar-like material seep was observed next to Track 802 that is located approximately 280 feet northwest of the NAPL Collection System. The tar-like material seep is located along on the northern side of the track at the edge of the railroad ballast (Photo No. 14). During the September 28, 2022 weekly inspection, an additional tar-like material seep was observed within the concrete road area (RD-14) about 45 feet north of Track 802 and east of the existing Track 802 seep location (Photo No. 20). A small amount of tar-like seep material was recovered at Track 802 during the August 2, 9, 16, and 23, 2023 inspections. A small amount of tar-like seep material was recovered at band RD-14 during the August 9 and 16, 2023 inspections.
- Tar-like material observed during the weekly inspection events was removed and recovered using a hand tool to scrape up the material. The number of tar-like material seeps observed, and total volume of material recovered during the month of August was similar to the July inspections. Less than 1.0 gallon of tar-like material was recovered for the month from the seep locations. The material that was recovered was placed in a drum staged at the CSA for disposal.
- Since the pressure washing event on June 30, 2023, no brown staining/residue or seep water had been observed along cracks in the paved areas throughout the A and B rows until the August 9, 2023 inspection. The heaviest staining was observed in stalls A060-A080 (Photo Nos. 2, 23, and 31). UPRR remediation contractor OMI pressure washed the staining and seepage on August 18, 2023. Wash water from the clean-up event was recovered and is staged in a tote onsite pending transportation and disposal. UPRR will continue to have a remediation contractor pressure wash and/or collect the water in the areas where the brown staining and seeps are observed.
- WSP, on behalf of UPRR, submitted to the TCEQ the Englewood IM Yard Test Pit Evaluation Report dated June 2, 2021 summarizing the findings from the test pits installed in July 2020, including weekly inspections since the installation. As discussed in the Test Pit Report, the test pit inspections were to continue through the warmer months (through September 2021). UPRR will prepare a Test Pit Evaluation Report Addendum summarizing the test pit inspections from June through November 2021. During inspections in June and July 2021 the concrete patches covering test pits in stalls A010, A021, B013, B057, B096, and B108 were observed to be damaged. UPRR contractor US Ecology removed the damaged test pit concrete on October 22, 2021 and completed installation of new rebar and concrete on October 25, 2021. The new concrete patches continue to be monitored during the weekly inspections.
- During the inspection on September 28, 2022, a small amount of tar like material was observed in stall B096 adjacent to the test pit patch for the first time since the test pit installation. A very small amount of tar-like material was recovered from the B096 test pit patch location during the inspections on August 2, 9, 16, 23, and

30, 2023 (Photo Nos. 7, 29, 40, 54 and 68). Through August 30, 2023, no NAPL seeps have been observed at the six other test pit locations (stalls A010, A021, A098, B013, B057 and B108). The seep observed in stall B057 (Photo No. 6, 24, 36 and 50) during the August inspections was observed coming from cracks in the asphalt pavement and not at the test pit location.

- A follow-up video camera survey of the stormwater sewer lines in the central area of the Englewood IM Yard was conducted on August 26, 2021 to evaluate the stormwater line near the test pit locations. Details of the follow-up video survey will be provided in the Test Pit Evaluation Report Addendum.
- The TCEQ issued a comment letter dated January 26, 2022 titled "*Comments on Interim Groundwater Monitoring Report (July 2020), dated April 30, 2021 Englewood Intermodal Yard (EIY) Test Pit Evaluation Report, dated June 2, 2021, Corrective Action Monitoring Report, 2021 First Semi-Annual Event, dated July 9, 2021*". In the comment letter, the TCEQ requested UPRR prepare an Interim Measures Work Plan (Work Plan) to address the NAPL seeps in the Englewood Intermodal Yard. The TCEQ requested that the Work Plan include a schedule and plan for implementation of additional interim measures to permanently address the NAPL seeps in the Englewood Intermodal Yard. UPRR submitted the requested Work Plan dated May 17, 2023 to the TCEQ on May 24, 2023. The TCEQ issued a comment letter dated July 5, 2023 on the Work Plan. UPRR is currently preparing responses to the revised Work Plan that will be submitted to the TCEQ by the requested due date.

Weekly site inspections of the NAPL Collection System and Englewood Intermodal Yard concrete pavement near the collection system will continue to be conducted.

If you have any questions or need additional information, please feel free to call us at (512) 671-3434 or Mr. Kevin Peterburs of UPRR at (414) 267-4164.

Sincerely,

WSP USA Inc.

Christopher Elofson, P.G.
Consultant, Geologist

Eric C. Matzner, P.G.
Director, Hydrogeologist

CC: Mr. Kevin Peterburs, UPRR – Milwaukee, WI
Ms. Alma Jefferson, Waste Section Manager, TCEQ Region 12, Houston

Attachment Table 1 – NAPL Measurements – NAPL Collection System
Attachment A – Weekly Inspection Photolog
Attachment B - Waste Shipping Documentation

TABLE 1
NAPL Measurements - NAPL Collection System - Englewood Intermodal Yard
UPRR Houston, tx - Wood Preserving Works

Measured Date	Sump 1 (B099/B100) Freeboard (in)	Sump 2 (B103/B104) Freeboard (in)	Sump 3 (B107/B108) Freeboard (in)	Depth to DNAPL (in)	Comments
8/14/2019	2.5	28	29	Not measurable	
8/21/2019	0	27.5	26.5	Not measurable	
8/28/2019	44.5	47.9	45	Not measurable	Water from sumps pumped out
9/4/2019	19	42	41.5	Not measurable	
9/13/2019	0	39.5	38	Not measurable	
9/20/2019	0	3	2.5	Not measurable	
9/25/2019	0	42	42.5	Not measurable	Water from sumps pumped out
10/2/2019	2.5	42.5	42	Not measurable	Sheen visible in B107/B108 sump, less than 0.1 gal of DNAPL recovered
10/9/2019	3	42	41.5	Not measurable	Sheen visible in B107/B108 sump, less than 0.1 gal of DNAPL recovered
10/16/2019	0	39.5	39	Not measurable	Less than 0.1 gal of DNAPL recovered from B107/B108 Sump
10/24/2019	3	35	25	Not measurable	Less than 0.1 gal of DNAPL recovered from B107/B108 Sump
10/29/2019	0	24	23	Not measurable	Water from sumps pumped out
10/30/2019	0	40	39	Not measurable	Slight sheen visible in B107/B108 sump
11/6/2019	9	39	38.5	Not measurable	
11/13/2019	7	30	29	Not measurable	Less than 0.1 gal of DNAPL recovered from B107/B108 Sump
11/19/2019	4	26	25.5	Not measurable	
11/27/2019	0	25	23	Not measurable	
12/3/2019	2	25.5	25	Not measurable	Less than 0.1 gal of DNAPL recovered from B107/B108 Sump
12/11/2019	1.5	17	16.54	Not measurable	Less than 0.1 gal of DNAPL recovered from B107/B108 Sump
12/17/2019	5	19.5	17.5	Not measurable	
12/23/2019	10	21	20.5	Not measurable	
1/7/2020	9	13	12.5	Not measurable	
1/8/2020	9	13	12.5	Not measurable	Water from sumps pumped out
1/17/2020	0	32	31.5	Not measurable	
1/21/2020	2.5	26.5	26	Not measurable	
1/28/2020	0	0	0	Not measurable	
2/4/2020	2	11	10.5	Not measurable	
2/12/2020	0	0	0	Not measurable	
2/18/2020	1.5	11.5	10.25	Not measurable	Water from sumps pumped out on 2/20/2020
2/27/2020	2	42	36	Not measurable	
3/6/2020	1	36	36	Not measurable	
3/11/2020	2	36	35.5	Not measurable	
3/18/2020	0	35.5	35	Not measurable	
3/27/2020	0	29	28	Not measurable	
4/3/2020	1.5	29	28.5	Not measurable	
4/8/2020	0	23	22	Not measurable	
4/15/2020	0.5	23	22	Not measurable	
4/21/2020	0	21	21	Not measurable	
4/28/2020	0	23	22	Not measurable	
5/4/2020	-	-	-	Not Measured	Measurements were not taken; the inspector was unable to open the sumps
5/12/2020	0	20	19	Not measurable	
5/19/2020	0	15.75	14.25	Not measurable	Sump 1 pumped down (May 22nd)
5/27/2020	0	14	13	Not measurable	
6/1/2020	0	7	5	Not measurable	
6/10/2020	0	10	9	Not measurable	
6/17/2020	1	12	11	Not measurable	
6/25/2020	0	0	0	Not measurable	
6/30/2020	0	0	0	Not measured	
7/1/2020	48	46	47	Not measurable	Sumps 1, 2, & 3 pumped down
7/8/2020	34	24.5	24	Not measurable	Less than 0.1 gal of DNAPL recovered from B107/B108 Sump
7/15/2020	32	29.5	29	Not measurable	Sheen visible in B99/B100 sump & B107/B108 sump, less than 0.1 gal of DNAPL recovered B107/B108 sump
7/23/2020	0	23	22.5	Not measured	Less than 0.1 gal of DNAPL recovered from B107/B108 Sump
7/31/2020	0	11	10	Not measurable	
8/5/2020	0	7	5	Not measurable	
8/13/2020	1	11	10	Not measurable	
8/19/2020	0	7	6	Not measurable	
8/26/2020	0	10	9	Not measurable	
9/2/2020	43	37	38	Not measurable	Sumps 1, 2, & 3 pumped down (September 1); Sheen visible in B99/B100 sump & B107/B108 sump
9/9/2020	28	37	36	Not measurable	Sheen visible in B107/B108 sump
9/15/2020	1	35	33	Not measurable	
9/23/2020	0	0	0	Not measurable	

TABLE 1
NAPL Measurements - NAPL Collection System - Englewood Intermodal Yard
UPRR Houston, tx - Wood Preserving Works

Measured Date	Sump 1 (B099/B100) Freeboard (in)	Sump 2 (B103/B104) Freeboard (in)	Sump 3 (B107/B108) Freeboard (in)	Depth to DNAPL (in)	Comments
9/30/2020	1	10	9	Not measurable	
10/8/2020	4	12	11.5	Not measurable	
10/15/2020	0	11	10.5	Not measurable	Less than 0.1 gal of DNAPL recovered B107/B108 sump
10/21/2020	1	10.5	9.25	Not measurable	
10/28/2020	0	11	10	Not measurable	
11/4/2020	9	13	12	Not measurable	
11/11/2020	0.5	12	11	Not measurable	
11/18/2020	3.5	13	12	Not measurable	
11/24/2020	7	14	13.5	Not measurable	
11/30/2020	2	7	6	Not measurable	
12/10/2020	5	10.5	10	Not measurable	
12/18/2020	4	10	9	Not measurable	
12/23/2020	1	9	7.5	Not measurable	
12/31/2020	0	4	3.5	Not measurable	
1/6/2021	4	10.5	9	Not measurable	
1/15/2021	43	39	37.5	Not measurable	Sumps 1, 2, & 3 pumped down
1/22/2021	0	34	33	Not measurable	Sheen visible in B107/B108 sump
1/29/2021	2	31	30	Not measurable	Sheen visible in B107/B108 sump
2/4/2021	4	30	29.5	Not measurable	Sheen visible in B099/B100 sump
2/10/2021	0	27	25.5	Not measurable	
2/17/2021	0	0	0	Not measurable	
2/24/2021	2	10	9.5	Not measurable	
3/2/2021	0	0	0	Not measurable	
3/10/2021	0	10	9.75	Not measurable	
3/17/2021	0	2	1	Not measurable	
3/24/2021	0	3.5	2	Not measurable	
3/31/2021	0	6.5	7	Not measurable	
4/8/2021	0	7.5	7	Not measurable	
4/14/2021	0	6.5	6	Not measurable	Less than 0.1 gal of DNAPL recovered B107/B108 sump; Sheen visible in B103/104 and B107/B108 sumps
4/21/2021	0.5	9	8.5	Not measurable	
4/28/2021	0	8.5	8	Not measurable	
5/5/2021	0	7.5	7	Not measurable	
5/12/2021	0	8	7.5	Not measurable	
5/19/2021	0	0	0	Not measurable	
5/26/2021	0	2	0.5	Not measurable	
5/27/2021	41	32	26	Not measurable	Sumps 1,2, & 3 pumped down
6/2/2021	0	40	38	Not measurable	Sheen visible in B107/108 sump
6/9/2021	0	30	28.5	Not measurable	
6/16/2021	0	24	25	Not measurable	
6/23/2021	0	12	13	Not measurable	
6/30/2021	0	3	1	Not measurable	
7/7/2021	0	0	0	Not measurable	
7/14/2021	0	0	0	Not measurable	Sumps 1,2, & 3 pumped down (July 15)
7/21/2021	0	39	37	Not measurable	
7/29/2021	0	37	35.5	Not measurable	
8/4/2021	0	36	34	Not measurable	Sheen visible in B103/104 and B107/B108 sumps
8/11/2021	0	33	32	Not Measured	Depth to DNAPL measurements were not taken; the interface probe was not functioning properly
8/18/2021	0	25	23	Not measurable	
8/25/2021	0	20	22	Not measurable	
9/1/2021	0	20	17	Not measurable	
9/8/2021	3	14	11	Not measurable	
9/15/2021	0	3	4	Not measurable	Sumps 1,2, & 3 pumped down (September 17)
9/22/2021	31.5	46	46	Not measurable	Sheen visible in B107/B108 sump
9/29/2021	0	29	30.75	Not measurable	Sheen visible in B103/104 and B107/B108 sumps
10/7/2021	6	18	17.5	Not measurable	
10/13/2021	3.6	10.56	9.72	Not measurable	Sheen visible in B103/104 and B107/B108 sumps; brown discoloration and slight odor noted B099/B100 sump
10/20/2021	0	13.94	12.6	Not measurable	Sumps 1,2, & 3 pumped down (October 21)
10/27/2021	0	22	21	Not measurable	Sheen visible in B099/B100 sump
11/3/2021	10	20	21	Not measurable	
11/10/2021	12	16	15	Not measurable	
11/17/2021	8	16	15	Not measurable	
11/24/2021	7	14	13	Not measurable	
12/1/2021	7	15	14	Not measurable	
12/8/2021	6	12.5	12	Not measurable	
12/15/2021	7	15	15	Not measurable	
12/22/2021	-	-	-	Not Measured	Partial site inspection conducted 12/22/21; Sump measurements were not taken
12/29/2021	0	11.5	11	Not measurable	
1/5/2022	8.75	13.5	12.25	Not measurable	

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UPRR Houston, tx - Wood Preserving Works

Measured Date	Sump 1 (B099/B100) Freeboard (in)	Sump 2 (B103/B104) Freeboard (in)	Sump 3 (B107/B108) Freeboard (in)	Depth to DNAPL (in)	Comments
1/12/2022	6	12	12	Not measurable	
1/19/2022	13.5	17	16	Not measurable	Sheen visible in B099/B100 sump
1/27/2022	3	9	9	Not measurable	
2/2/2022	-	-	-	Not Measured	Measurements were not taken; the inspector was unable to open the sumps
2/9/2022	9	15	15	Not measurable	
2/16/2022	8.5	17	16	Not measurable	
2/23/2022	5.5	14	13.5	Not measurable	
3/2/2022	5.5	15	14	Not measurable	
3/9/2022	4.5	7	6	Not measurable	
3/16/2022	48	36	45	Not measurable	Sumps 1,2, & 3 pumped down during inspection; less than 0.5 gal of DNAPL recovered B107/B108 sump
3/23/2022	6	29	28	Not measurable	
3/30/2022	5.5	28	28	Not measurable	
4/6/2022	3.5	19	18	Not measurable	
4/13/2022	4.5	18	15	Not measurable	Sheen visible in B099/B100 sump
4/20/2022	5	18	18	Not measurable	Sheen visible in B099/B100 sump
4/27/2022	4.5	12	8.5	Not measurable	
5/4/2022	48	42	45	Not measurable	Sumps 1,2, & 3 pumped down during inspection; Sheen visible in B099/B100 sump
5/11/2022	16	44.5	44	Not measurable	Sheen visible in B099/B100, B103/104, and B107/B108 sumps
5/18/2022	6.5	45	45	Not measurable	
5/25/2022	0	25	24	Not measurable	
6/1/2022	5.5	24	24	Not measurable	
6/8/2022	5	22	22	Not measurable	Sheen visible in B099/B100 and B103/104 sumps
6/15/2022	5	25	24	Not measurable	
6/22/2022	4.5	24	21	Not measurable	
6/29/2022	6	21	21	Not measurable	
7/6/2022	5.5	13	13	Not measurable	
7/13/2022	5	15	14	Not measurable	Sheen visible in B099/B100 sump
7/20/2022	51.5	38	43.5	Not measurable	Sumps 1,2, & 3 pumped down during inspection; less than 0.1 gal of DNAPL recovered B099/B100 sump
7/27/2022	4	42	40	Not measurable	
8/3/2022	5	39	39	Not measurable	
8/10/2022	5.5	38	38	Not measurable	Sheen visible in B107/B108 sump
8/17/2022	5.5	25.5	25	Not measurable	
8/24/2022	0	0.5	0	Not measurable	Inspector unable to open B099/B100 and B107/B108 sumps as there was standing water on top of the sumps due to ongoing rain event
8/31/2022	52	52	48	Not measurable	Sumps 1,2, & 3 pumped down during inspection; sheen visible in B103/B104 sump
9/7/2022	3	37	37	Not measurable	
9/14/2022	1	34	31	Not measurable	Sheen visible in B099/B100 sump
9/21/2022	2.2	31.5	27.5	Not measurable	Sheen visible in B107/B108 sump
9/28/2022	3	30	31	Not measurable	Sheen visible in B099/B100 and B107/B108 sumps
10/5/2022	8	33	33	Not measurable	Sheen visible in B099/B100 and B107/B108 sumps
10/12/2022	7	32	32	Not measurable	Sheen visible in B099/B100 and B107/B108 sumps
10/19/2022	48	48	48	Not measurable	Sumps 1,2, & 3 pumped down during inspection; less than 0.1 gal of DNAPL recovered from B107/108 sump; small amount of DNAPL visible but not recoverable in B099/B100 sump; sheen visible in B099/B100 and B103/B104 sumps on recharge water after pumpdown
10/26/2022	6	46	45	Not measurable	Sheen visible in B107/B108 sump
11/2/2022	4	19	19	Not measurable	
11/9/2022	6	14	13	Not measurable	
11/16/2022	8	14	12	Not measurable	
11/22/2022	0	0	0	Not measurable	
11/30/2022	3	10	9	Not measurable	Very slight sheen visible in Sumps 1, 2, and 3; less than 0.2 gal of DNAPL recovered from B107/108 sump
12/7/2022	4	13.5	13	Not measurable	
12/14/2022	0	0	0	Not measurable	Replaced dipper tool with hoe for NAPL recovery from sumps. Less than 0.4 gal of DNAPL recovered from B099/B100 sump; approximately 0.1 gal of DNAPL recovered from B107/B108 sump
12/21/2022	4	8	7	Not measurable	
12/28/2022	16	14	14	Not measurable	
1/4/2023	3.5	7.5	6	Not measurable	
1/11/2023	12	12	3	Not measurable	
1/18/2023	3	13	13	Not measurable	
1/25/2023	3	6	5	Not measurable	

TABLE 1
NAPL Measurements - NAPL Collection System - Englewood Intermodal Yard
UPRR Houston, tx - Wood Preserving Works

Measured Date	Sump 1 (B099/B100) Freeboard (in)	Sump 2 (B103/B104) Freeboard (in)	Sump 3 (B107/B108) Freeboard (in)	Depth to DNAPL (in)	Comments
2/1/2023	<1	1	<1	Not measurable	
2/8/2023	5	13	12	Not measurable	
2/15/2023	<1	2	2.5	Not measurable	Sumps B099/B100, B103/B104, and B107/B108 pumped down during inspection
2/22/2023	32	42	43	Not measurable	Sheen visible in B099/B100, B103/B104, and B107/B108 sumps; water in B099/B100 noted as brown color with high turbidity
3/1/2023	9	41	40	Not measurable	Sheen visible in B099/B100, B103/B104, and B107/B108 sumps, water color in sumps noted as brown
3/8/2023	5	42	41	Not measurable	B099/B100 & B103/B104 light brown color
3/15/2023	4	42	41	Not measurable	B099/B100 and B103/B104 brown color; B107/B108 very light brown color
3/22/2023	8	26.5	25.5	Not measurable	B099/B100 light brown color
3/29/2023	3	24	25	Not measurable	B099/B100 light brown color
4/5/2023	2.5	25	25	Not measurable	B099/B100 light brown color
4/12/2023	4	12	14	Not measurable	All three sumps pumped down during inspection, B099/B100 brown color
4/19/2023	5	42	42	Not measurable	Sheen visible in B107/B108 sump
4/26/2023	4	31.5	31.5	Not measurable	Sheen visible in B107/B108 sump
5/3/2023	3	18	17.5	Not measurable	
5/10/2023	0	1.5	0	Not measurable	Sheen visible in B107/B108 sump
5/17/2023	0	2	0	Not measurable	Sheen visible in B107/B108 sump
5/24/2023	2	14	13	Not measurable	Pumpdown and boom swap.
5/31/2023	28	50	49	Not measurable	B099/B100 water color brown. B103/B104 and B107/B108 water color light brown.
6/7/2023	3	38	37	Not measurable	Sheen visible in all Sumps. B099/B0100 water color brown and, light brown on both B103/B104 and B107/B108.
6/14/2023	4	38	37	Not measurable	Sheen Visible in B099/B100 & B107/B108. water color brown on B099/B100 & light brown in all other sumps.
6/21/2023	3	36	37	Not measurable	Sheen Visible in B107/B108. water color brown on B099/B100 & light brown in all other sumps.
6/28/2023	3	31	31	Not measurable	Sheen Visible in B099/B100 & B107/B108. water color dark brown on B099/B100 & B107/B108, light brown in B103/B104.
7/12/2023	3	20	19	Not measurable	Sheen Visible in B099/B100 and B107/B108. Water color brown on B099/B100, light brown in B103/B104.
7/19/2023	3	19	19	Not measurable	Sheen Visible on B099/B100 and B107/B108. Water color brown on B099/B100 and clear on B103/B104 and B107/B108.
7/26/2023	3	21	20	Not measurable	Sheen Visible on B099/B100 and B107/B108. Water color brown on B099/B100, light brown on B103/B104, and clear on B107/B108.
8/2/2023	0	16.5	15.5	Not measurable	Sheen Visible on B107/B108. Water color dark brown on B099/B100, light brown on B103/B104, and clear on B107/B108.
8/9/2023	42	47	47	Not measurable	Sheen Visible on B099/B100 and B107/B108. Water color brown on B099/B100, light brown on B103/B104, and clear on B107/B108.
8/16/2023	38.5	47	47	Not measurable	Sheen Visible on B099/B100 and B107/B108. Water color brown on B099/B100 and light brown on B103/B104 and B107/B108.
8/23/2023	33	46	46	Not measurable	Sheen visible in all Sumps. B099/B0100 water color dark brown and, light brown on both B103/B104 and B107/B108.
8/30/2023	33	46	44	Not measurable	Sheen visible in all Sumps. B099/B0100 water color dark brown and, light brown on both B103/B104 and B107/B108.

Note:

Freeboard in sumps is measured as depth to water from top rim of sump, measured in inches





ATTACHMENT A

Weekly Inspection Photolog



PHOTOGRAPHIC LOG

Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. 31406585.016
Photo No. 1	Inspection Date: 8/2/2023		
Description: Stall A011 tar-like material observed at historical seep location along asphalt crack, material was removed. Lat: 29.785467 Long: -95.318341			
Photo No. 2	Inspection Date: 8/2/2023		
Description: Stalls A065 - A070 some minimal staining observed. Lat: 29.784858 Long: -95.319733			



PHOTOGRAPHIC LOG

Client Name:

Union Pacific Railroad

Site Location:

Englewood Intermodal Yard, Houston, Texas

Project No.

31406585.016

Photo No.

3

Inspection Date:

8/2/2023

Description:

Stall A022. Some tar-like material observed at historical seep location along asphalt crack, material was removed.

Lat: 29.785378

Long:-95.318694



Photo No.

4

Inspection Date:

8/2/2023

Description:

Stall BO42. A very small amount of tar-like material observed at historical seep location along asphalt crack, material was removed.

Lat: 29.784923

Long: -95.319124





PHOTOGRAPHIC LOG

Client Name: Union Pacific Railroad	Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. 31406585.016
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Photo No. 5	Inspection Date: 8/2/2023
Description: Stall B056. Some tar-like material observed at historical seep location along asphalt crack, material was removed. Lat: 29.784751 Long: -95.319532	



A photograph showing a dark, irregular tar-like substance on an asphalt surface, located along a crack. A white evidence marker with the handwritten label 'B056' is placed above the substance. A yellow measuring tape is laid horizontally next to the marker, indicating the scale of the observation. The asphalt surface is light gray with some yellow painted lines.

Photo No. 6	Inspection Date: 8/2/2023	
<p>Description:</p> <p>Stall B057. Some tar-like material observed at historical seep location along asphalt crack, material was removed.</p> <p>Lat: 29.784747 Long: -95.319549</p>		



PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Intermodal Yard, Houston, Texas

Project No.
31406585.016

Photo No.
7

Inspection Date:
8/2/2023

Description:

Stall B096, some staining and cracking concrete observed at former test pit location. Some tar-like material observed and removed.

Lat: 29.78417
Long: - 95.32091



Photo No.
8

Inspection Date:
8/2/2023

Description:

Stalls B107, some new tar-like material observed and removed at seep location on concrete joint along the southern edge of the excavated area.

Lat: 29.784137
Long: -95.32096





PHOTOGRAPHIC LOG

Client Name:

Union Pacific Railroad

Site Location:

Englewood Intermodal Yard, Houston, Texas

Project No.

31406585.016

Photo No.

9

Inspection Date:

8/2/2023

Description:

Stall B100, Some tar-like material observed and removed.

Lat: 29.7844000

Long: - 95.3205861



Photo No.

10

Inspection Date:

8/2/2023

Description:

Stall B102 (joint), tar-like material observed and removed.

Lat: 29.784233

Long: -95.320847





PHOTOGRAPHIC LOG

Client Name:

Union Pacific Railroad

Site Location:

Englewood Intermodal Yard, Houston, Texas

Project No.

31406585.016

Photo No.

11

Inspection Date:

8/2/2023

Description:

Sump 1 (B099/B100), 0 inches of freeboard in sump, no sheen or odor observed, no new NAPL accumulation on inflow protector, color noted as dark brown.

Lat: 29.7844000

Long: - 95.3205861



Photo No.

12

Inspection Date:

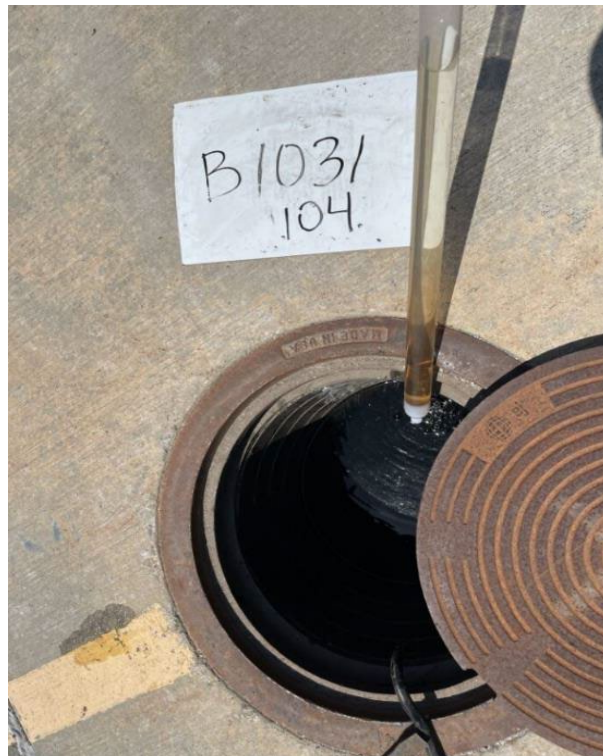
8/2/2023




Description:




Sump 2 (B103/B104), 16.5 inches of freeboard, no sheen observed, no odor noted, color noted as light brown.

Lat: 29.7842861

Long: - 95.3208611



		PHOTOGRAPHIC LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. 31406585.016
Photo No. 13	Inspection Date: 8/2/2023		
Description: Sump 3 (B107/B108), 15.5 inches of freeboard in sump, sheen observed, no odor noted, color noted as clear. Lat: 29.784172 Long: -95.320998			
Photo No. 14	Inspection Date: 8/2/2023		
Description: North side of Track 802, a small amount of tar-like material observed at seep location near the edge of the ballast, material removed. Looking Southwest. Lat: 29.784895 Long: -95.321327			

		PHOTOGRAPHIC LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	
Project No. 31406585.016			
Photo No. 15	Inspection Date: 8/4/2023		
Description: OMI environmental cleanup contractor pumping down excess water from sump systems. Lat: 29.784172 Long: -95.320998			
Photo No. 16	Inspection Date: 8/9/2023		
Description: Stall A011 some tar-like material observed at historical seep location along asphalt crack, material was removed. Lat: 29.785467 Long: -95.318341			



PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Intermodal Yard, Houston, Texas

Project No.
31406585.016

Photo No.
17

Inspection Date:
8/9/2023

Description:

Stall A022. Some tar-like material observed at historical seep location along asphalt crack, material was removed.

Lat: 29.785378
Long: -95.318694



Photo No.
18




Inspection Date:
8/9/2023

Description:

North side of Track 802, some tar-like material observed at seep location near the edge of the ballast, material removed.

Lat: 29.784895
Long: -95.321327



		PHOTOGRAPHIC LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. 31406585.016
Photo No. 19	Inspection Date: 8/9/2023		
Description: Stalls B107, view of NAPL collection system, some new tar-like material observed and removed at seep location on concrete joint along the southern edge of the excavated area. Lat: 29.784137 Long: -95.32096			
Photo No. 20	Inspection Date: 8/9/2023		
Description: RD-14 Seep location observed within the concrete road area (RD-14) north of Track 802 (east of existing Track 802 seep location), very small amount of tar-like material observed along a concrete joint, material was removed. Lat: 29.785064 Long: -95.321219			



PHOTOGRAPHIC LOG

Client Name:

Union Pacific Railroad

Site Location:

Englewood Intermodal Yard, Houston, Texas

Project No.

31406585.016

Photo No.

21

Inspection Date:

8/9/2023

Description:

Stall B042. Some tar-like material observed at historical seep location along asphalt crack, material was removed.

Lat: 29.784923

Long: -95.319124



Photo No.

22

Inspection Date:

8/9/2023

Description:

Stall B056. Some tar-like material observed at historical seep location along asphalt crack, material was removed.



Lat: 29.784751

Long: -95.319532





PHOTOGRAPHIC LOG

Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. 31406585.016
Photo No. 23	Inspection Date: 8/9/2023		
Description: Stall A061, some staining observed along cracks in pavement. Looking west. Lat: 29.784858 Long: -95.319733			
Photo No. 24	Inspection Date: 8/9/2023		
Description: Stall B057. Some tar-like material observed at historical seep location along asphalt crack, material was removed. Lat: 29.784747 Long: -95.319549			



PHOTOGRAPHIC LOG

Client Name:

Union Pacific Railroad

Site Location:

Englewood Intermodal Yard, Houston, Texas

Project No.

31406585.016

Photo No.

25

Inspection Date:

8/9/2023

Description:

Sump 1 (B099/B100), 42 inches of freeboard in sump, no odor noted, sheen observed, no new NAPL accumulation on inflow protector, water color noted as brown.

Lat: 29.7844000

Long: - 95.3205861



Photo No.

26

Inspection Date:

8/9/2023




Description:

Sump 2 (B103/B104), 47 inches of freeboard before pumping. No sheen or odor noted, color noted as light brown.

Lat: 29.7842861

Long: - 95.3208611



		PHOTOGRAPHIC LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. 31406585.016
Photo No. 27	Inspection Date: 8/9/2023		
Description: Sump 3 (B107/B108), 47 inches of freeboard in sump, no odor noted, sheen observed, no new NAPL accumulation on inflow protector, water color noted as clear. Lat: 29.7844000 Long: - 95.3205861			
Photo No. 28	Inspection Date: 8/9/2023		
Description: Stall B100, some new tar-like material observed and removed at seep location on concrete crack/hole in concrete. Lat: 29.7842517 Long: -95.3208166			



PHOTOGRAPHIC LOG

Client Name:

Union Pacific Railroad

Site Location:

Englewood Intermodal Yard, Houston, Texas

Project No.

31406585.016

Photo No.

29

Inspection Date:

8/9/2023

Description:

Stall B096, some staining and cracking concrete observed at former test pit location. Some tar-like material observed and removed.

Lat: 29.78417

Long: - 95.32091



Photo No.

30

Inspection Date:

8/9/2023




Description:

Stall B102 (center), tar-like material observed and removed at seep location along cracks in pavement.

Lat: 29.784197

Long: -95.320821



		PHOTOGRAPHIC LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. 31406585.016
Photo No. 31	Inspection Date: 8/9/2023		
Description: Stalls A065 - A070 some minimal staining observed. Looking west. Lat: 29.784858 Long: -95.319733			
Photo No. 32	Inspection Date: 8/16/2023		
Description: Stall A011 some tar-like material observed at historical seep location along asphalt crack, material was removed. Lat: 29.785392, Long: -95.318655			



PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Intermodal Yard, Houston, Texas

Project No.
31406585.016

Photo No.
33

Inspection Date:
8/16/2023

Description:

Stall A022, some tar-like material observed at the seep location along the edge tar-like material seeps observed and removed. Looking south.

Lat: 29.785381
Long: - 95.318619



Photo No.
34

Inspection Date:
8/16/2023

Description:

Stall BO42. Some tar-like material observed at historical seep location along asphalt crack, material was removed.

Lat: 29.784923
Long: -95.319124





PHOTOGRAPHIC LOG

Client Name:

Union Pacific Railroad

Site Location:

Englewood Intermodal Yard, Houston, Texas

Project No.

31406585.016

Photo No.

35

Inspection Date:

8/16/2023

Description:

Stall B056. Some tar-like material observed at historical seep location along asphalt crack, material was removed.

Lat: 29.784751

Long: -95.319532



Photo No.

36

Inspection Date:

8/16/2023

Description:

Stall B057, some new tar-like material observed and removed at seep location along asphalt crack. Looking north.

Lat: 29.784769

Long: -95.3195798





PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Intermodal Yard, Houston, Texas

Project No.
31406585.016

Photo No.

37

Inspection Date:

8/16/2023

Description:

Stall B100, tar-like material observed and removed at seep location along asphalt crack/hole in the asphalt. Test pit on right of photo. Looking Northwest.

Lat: 29.7842517

Long: -95.3208166



Photo No.

38

Inspection Date:

8/16/2023

Description:

Stall B102 Joint, tar-like material observed and removed at seep location along stall joint.

Lat: 29.7843668

Long: -95.3209849





PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Intermodal Yard, Houston, Texas

Project No.
31406585.016

Photo No.
39

Inspection Date:
8/16/2023

Description:

Stalls A060 - A080, some staining observed along cracks in pavement. Looking west.

Lat: 29.784858
Long: -95.319733



Photo No.
40

Inspection Date:
8/16/2023

Description:

Stall B096, some staining and cracking concrete observed at historical seepage location. Some tar-like material observed and removed.

Lat: 29.78417
Long: -95.32091





PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Intermodal Yard, Houston, Texas

Project No.
31406585.016

Photo No.
41

Inspection Date:
8/16/2023

Description:

Stalls B107, some new tar-like material observed and removed at seep location on concrete joint along the southern edge of the excavated area.

Lat: 29.784156
Long: -95.320953



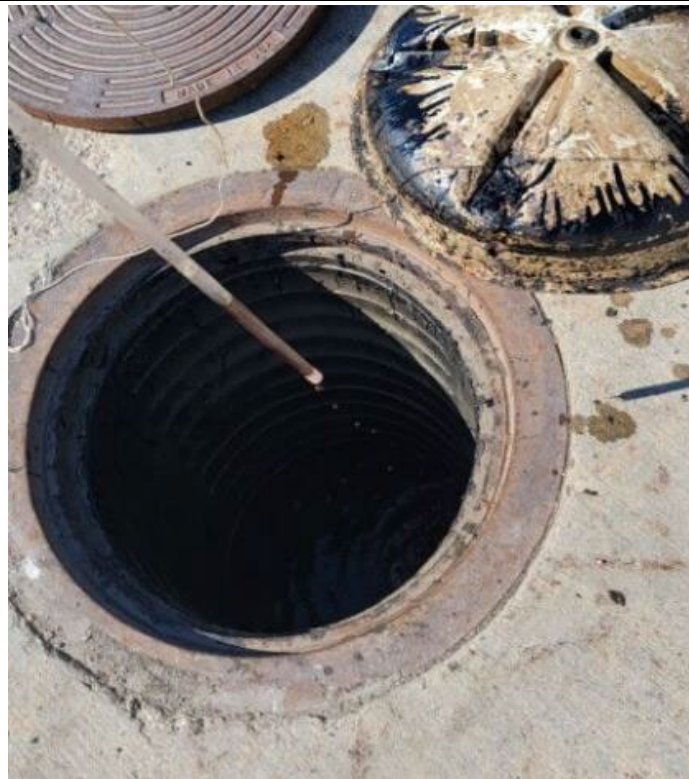
Photo No.
42

Inspection Date:
8/16/2023

Description:

Sump 1 (B099/B100), 38.5 inches of freeboard in sump, no odor noted, sheen observed, no new NAPL accumulation on inflow protector, water color noted as brown.

Lat: 29.7844000
Long: -95.3205861





PHOTOGRAPHIC LOG

Client Name:

Union Pacific Railroad

Site Location:

Englewood Intermodal Yard, Houston, Texas

Project No.

31406585.016

Photo No.

43

Inspection Date:

8/16/2023

Description:

Sump 2 (B103/B104), 47 inches of freeboard. No sheen or odor noted, color noted as light brown.

Lat: 29.7842861

Long: - 95.3208611



Photo No.

44

Inspection Date:

8/16/2023




Description:

Sump 3 (B107/B108), 47 inches of freeboard in sump, no odor noted, sheen observed, no new NAPL accumulation on inflow protector, water color noted as light brown.

Lat: 29.7844000

Long: - 95.3205861



		PHOTOGRAPHIC LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. 31406585.016
Photo No. 45	Inspection Date: 8/16/2023		
Description: RD-14 Seep location observed within the concrete road area (RD-14) north of Track 802 (east of existing Track 802 seep location), small amount of tar-like material observed along a concrete joint, material was removed. Lat: 29.785064 Long: -95.321219			
Photo No. 46	Inspection Date: 8/16/2023		
Description: North side of Track 802, some tar-like material observed at seep location near the edge of the ballast, material removed. Lat: 29.784947 Long: -95.321214			



PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Intermodal Yard, Houston, Texas

Project No.
31406585.016

Photo No.
47

Inspection Date:
8/23/2023

Description:

Stall A011 some tar-like material observed at historical seep location along asphalt crack, material was removed.

Lat: 29.785392,
Long: -95.318655



Photo No.
48

Inspection Date:
8/23/2023

Description:

Stall A022, some tar-like material observed at the seep location along the edge tar-like material seeps observed.

Lat: 29.785381
Long: - 95.318619





PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Intermodal Yard, Houston, Texas

Project No.
31406585.016

Photo No.
49

Inspection Date:
8/23/2023

Description:

Stall B042. Some tar-like material observed at historical seep location along asphalt crack, material was removed.

Lat: 29.784923
Long: -95.319124



Photo No.
50

Inspection Date:
8/23/2023

Description:

Stall B056. Some tar-like material observed at historical seep location along asphalt crack, material was removed.

Lat: 29.784751
Long: -95.319532





PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Intermodal Yard, Houston, Texas

Project No.
31406585.016

Photo No.
51

Inspection Date:
8/23/2023

Description:

Stall 102 (center), tar-like material observed and removed at seep location where pavement is cracked.

Lat: 29.784769

Long: -95.3195798



Photo No.
52

Inspection Date:
8/23/2023

Description:

Stall B100, tar-like material observed and removed at seep location along asphalt crack/hole in the asphalt.

Lat: 29.7842517

Long: -95.3208166





PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Intermodal Yard, Houston, Texas

Project No.
31406585.016

Photo No.
53

Inspection Date:
8/23/2023

Description:

Stall B102 Joint, tar-like material observed and removed at seep location along stall joint.

Lat: 29.7843668
Long: -95.3209849



Photo No.
54

Inspection Date:
8/23/2023

Description:

Stall B096, some staining and cracking concrete observed at former test pit location. Some tar-like material observed and removed.

Lat: 29.78417
Long: -95.32091





PHOTOGRAPHIC LOG

Client Name:

Union Pacific Railroad

Site Location:

Englewood Intermodal Yard, Houston, Texas

Project No.

31406585.016

Photo No.

55

Inspection Date:

8/23/2023

Description:

Stalls B107, some new tar-like material observed and removed at seep location on concrete joint along the southern edge of the excavated area.

Lat: 29.784156

Long: -95.320953



Photo No.

56

Inspection Date:

8/23/2023

Description:

Sump 1 (B099/B100), 33 inches of freeboard in sump, no odor noted, sheen observed, no new NAPL accumulation on inflow protector, water color noted as dark brown.

Lat: 29.7844000

Long: -95.3205861





PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Intermodal Yard, Houston, Texas

Project No.
31406585.016

Photo No.

57

Inspection Date:

8/23/2023

Description:

Sump 2 (B103/B104), 46 inches of freeboard before pumping. Sheen observed. No odor noted, color noted as light brown.

Lat: 29.7842861

Long: - 95.3208611



Photo No.

58

Inspection Date:

8/23/2023



Description:

Sump 3 (B107/B108), 46 inches of freeboard in sump, no odor noted, sheen observed, no new NAPL accumulation on inflow protector, water color noted as light brown.

Lat: 29.7844000



Long: - 95.3205861



		PHOTOGRAPHIC LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. 31406585.016
Photo No. 59	Inspection Date: 8/23/2023		
Description: Stalls A060 - A065. Some minimal staining observed where pavement is cracked. Looking west Lat: 29.784858 Long: -95.319733			
Photo No. 60	Inspection Date: 7/26/2023		
Description: North side of Track 802, some tar-like material observed at seep location near the edge of the ballast, material removed. Lat: 29.784947 Long: -95.321214			





PHOTOGRAPHIC LOG

Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. 31406585.016
Photo No. 61	Inspection Date: 8/30/2023		
Description: Stall A011 some tar-like material observed at historical seep location along asphalt crack, material was removed. Lat: 29.785392, Long: -95.318655			
Photo No. 62	Inspection Date: 8/30/2023		
Description: Stall A022, some tar-like material observed at the seep location along the edge tar-like material seeps observed. Lat: 29.785381 Long: -95.318619			



PHOTOGRAPHIC LOG

Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. 31406585.016
Photo No. 63	Inspection Date: 8/30/2023		
Description: Stall B042. Some tar-like material observed at historical seep location along asphalt crack, material was removed. Lat: 29.784923 Long: -95.319124			
Photo No. 64	Inspection Date: 8/30/2023		
Description: Stall B056. Some tar-like material observed at historical seep location along asphalt crack, material was removed. Lat: 29.784751 Long: -95.319532			



PHOTOGRAPHIC LOG

Client Name:

Union Pacific Railroad

Site Location:

Englewood Intermodal Yard, Houston, Texas

Project No.

31406585.016

Photo No.

65

Inspection Date:

8/30/2023

Description:

Stall 102 (center), tar-like material observed and removed at seep location where pavement is cracked.

Lat: 29.784769

Long: -95.3195798



Photo No.

66

Inspection Date:

8/30/2023

Description:

Stall B100, tar-like material observed and removed at seep location along asphalt crack/hole in the asphalt.

Lat: 29.7842517

Long: -95.3208166





PHOTOGRAPHIC LOG

Client Name:

Union Pacific Railroad

Site Location:

Englewood Intermodal Yard, Houston, Texas

Project No.

31406585.016

Photo No.

67

Inspection Date:

8/30/2023

Description:

Stall B102 Joint, tar-like material observed and removed at seep location along stall joint.

Lat: 29.7843668

Long: -95.3209849



Photo No.

68

Inspection Date:

8/30/2023

Description:

Stall B096, some staining and cracking concrete observed at former test pit location. Some tar-like material observed and removed.

Lat: 29.78417

Long: - 95.32091





PHOTOGRAPHIC LOG

Client Name:

Union Pacific Railroad

Site Location:

Englewood Intermodal Yard, Houston, Texas

Project No.

31406585.016

Photo No.

69

Inspection Date:

8/30/2023

Description:

Stalls B107, no new tar-like material observed at seep location on concrete joint along the southern edge of the excavated area.

Lat: 29.784156

Long: -95.320953



Photo No.

70

Inspection Date:

8/30/2023

Description:

Sump 1 (B099/B100), 33 inches of freeboard in sump, no odor or sheen observed, no new NAPL accumulation on inflow protector, water color noted as dark brown.

Lat: 29.7844000

Long: -95.3205861





PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Intermodal Yard, Houston, Texas

Project No.
31406585.016

Photo No.
71

Inspection Date:
8/30/2023

Description:

Sump 2 (B103/B104), 46 inches of freeboard before pumping. Sheen observed. No odor noted, color noted as light brown.

Lat: 29.7842861
Long: - 95.3208611



Photo No.
72

Inspection Date:
8/30/2023

Description:

Sump 3 (B107/B108), 44 inches of freeboard in sump, no odor noted, sheen observed, no new NAPL accumulation on inflow protector, water color noted as light brown.

Lat: 29.7844000
Long: - 95.3205861





PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Intermodal Yard, Houston, Texas

Project No.
31406585.016

Photo No.
73

Inspection Date:
8/30/2023

Description:

Stall B057, some new tar-like material observed and removed at seep location along asphalt crack.

Lat: 29.784769
Long: -95.3195798



Photo No.
74

Inspection Date:
8/30/2023

Description:

Stall B105, some new tar-like material observed at seep location along asphalt crack.

Lat: 29.784156
Long: -95.320953





ATTACHMENT B

Waste Shipping Documents

SHIP FROM (Shipper/Generator)		Bill of Lading(BOL# =E3OMI JOB- For Multiple loads, add -01.02..)	
Address: Union Pacific Rail Road 4910 Liberty Road, Houston, TX 77026		BOL#: 035-23-0015-08.04-01	
Phone#: _____		Trailer number: _____ Serial number(s): _____	
Receiving Facility/Consignee Name:		Roll-off BOx# _____	
Address: Delta Water Processing 18511 Beaumont Hwy, Houston, TX 77049		TRANSPORTER/Carrier Name	
DISPOSAL BILL TO:		E3 OMI LLC	
All Invoices must have a PO#: 35-2023-4018 Invoice: E3 OMI P.O.Box 1300 Clinton, MS 39060 email: admin@e3omi.com; cc: siokhong@e3omi.com		TRANSPORTER EPA #: TXD981055163	
Special Notes/Instructions: Scheduled Date: Delta Water Processing Profile EOMI0559P		Sign 3 copies (Shipper/Generator, Transporter, & Consignee)	
		Freight Charge Terms (Freight charges are prepaid unless marked otherwise): Prepaid <input type="checkbox"/> Collect <input type="checkbox"/> 3rd Party <input type="checkbox"/>	
		<input type="checkbox"/> Master bill of lading with attached underlying bills of lading.	

CUSTOMER ORDER INFORMATION

Material/Waste Streams:	# of Packages	Weight	Pallet/Slip (circle one)	Additional Shipper Information
Oily Water recycling	1 TT		Y N	__Waste Disposal Pick-up/Delivery
			Y N	__Washout
			Y N	__In Plant Work no disposal
			Y N	

CARRIER INFORMATION

Handling Unit		Package				LTL Only	
Qty	Type	Qty	Type	Weight	HM (X)	Commodity Description/Material	NMFC No.
800	800	1	TT			OILY WATER	

Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property as follows: "The agreed or declared value of the property is specifically stated by the shipper to be not exceeding _____ per _____"

COD Amount: _____

Fee terms: Collect ☐ Prepaid ☐ Customer check acceptable ☐

Note: Liability limitation for loss or damage in this shipment may be applicable. See 49 USC § 14706(c)(1)(A) and (B).

Received, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications, and rules that have been established by the carrier and are available to the shipper, on request, and to all applicable state and federal regulations.

Transporter Driver Print Name, Signature:

Juan Navarro

Shipper/Generator Signature/Date:

Asst for 8/4/23

This is to certify that the above named materials are properly classified, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the DOT.

Trailer Loaded:

☐ By shipper
☐ By driver

Freight Counted:

☐ By shipper
☐ By driver/pallets said to contain
☐ By driver/pieces

TRANSPORTER PICK UP Date:

Carrier acknowledges receipt of packages and required placards. Carrier certifies emergency response information was made available and/or carrier has the DOT emergency response guidebook or equivalent documentation in the vehicle. Property described above is received in good order, except as noted.

Received By Facility(Consignee): _____ Signature: _____
DATE Received: _____

SHIP FROM (Shipper/Generator)		Bill of Lading (BOL# = E3OMI JOB- For Multiple loads, add -01.02..)	
Address: Union Pacific Rail Road 4910 Liberty Road, Houston, TX 77026		BOL#: 035-23-0015-08.04-01	
Phone#: _____		Trailer number: _____ Serial number(s): _____	
Receiving Facility/Consignee Name:		Roll-off BOX# _____	
Address: Delta Water Processing 18511 Beaumont Hwy, Houston, TX 77049		TRANSPORTER/Carrier Name	
DISPOSAL BILL TO:		E3 OMI LLC	
All Invoices must have a PO#: 35-2023-4002 Invoice: E3 OMI P.O.Box 1300 Clinton, MS 39060 email: admin@e3omi.com; cc: siokhong@e3omi.com		TRANSPORTER EPA #: TXD981055163	
Special Notes/Instructions: Scheduled Date: Delta Water Processing Profile EOMI0559P		Sign 3 copies (Shipper/Generator, Transporter, & Consignee)	
		Freight Charge Terms (Freight charges are prepaid unless marked otherwise): Prepaid <input type="checkbox"/> Collect <input type="checkbox"/> 3rd Party <input type="checkbox"/>	
		<input type="checkbox"/> Master bill of lading with attached underlying bills of lading.	

CUSTOMER ORDER INFORMATION

Material/Waste Streams:	# of Packages	Weight	Pallet/Slip (circle one)	Additional Shipper Information
Oily Water recycling	1 TT	8088L	Y N	Waste Disposal Pick-up/Delivery
			Y N	Washout
			Y N	In Plant Work no disposal
			Y N	

CARRIER INFORMATION

Handling Unit		Package		Weight	HM (X)	Commodity Description/Material	LTL Only	
Qty	Type	Qty	Type				NMFC No.	Class
		1	TT			OILY WATER		

Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property as follows: "The agreed or declared value of the property is specifically stated by the shipper to be not exceeding _____ per _____"

COD Amount: _____

Fee terms: Collect ☐ Prepaid ☐ Customer check acceptable ☐

Note: Liability limitation for loss or damage in this shipment may be applicable. See 49 USC § 14706(c)(1)(A) and (B).

Received, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications, and rules that have been established by the carrier and are available to the shipper, on request, and to all applicable state and federal regulations.		Transporter Driver Print Name, Signature: 	
Shipper/Generator Signature/Date This is to certify that the above named materials are properly classified, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the DOT.	Trailer Loaded: <input type="checkbox"/> By shipper <input type="checkbox"/> By driver	Freight Counted: <input type="checkbox"/> By shipper <input type="checkbox"/> By driver/pallets said to contain <input type="checkbox"/> By driver/pieces	TRANSPORTER PICK UP Date: Carrier acknowledges receipt of packages and required placards. Carrier certifies emergency response information was made available and/or carrier has the DOT emergency response guidebook or equivalent documentation in the vehicle. Property described above is received in good order, except as noted.

Received By Facility (Consignee): Print Name Signature:

DATE Received: 8-4-23

BILL OF LADING – SHORT FORM – NOT NEGOTIABLE

Page 1 of 1

SHIP FROM (Shipper/Generator) Address: _____ Phone#: _____ Union Pacific Rail Road 4910 Liberty Road, Houston, TX 77026		Bill of Lading(BOL# =E3OMI JOB- For Multiple loads, add -01.02.. BOL#: 035-23-0015-08.04-02	
Receiving Facility/Consignee Name: Address: _____ Phone#: 281-404-4424 Delta Water Processing 18511 Beaumont Hwy, Houston, TX 77049		Trailer number: _____ Serial number(s): _____ Roll-off BOx# _____ TRANSPORTER/Carrier Name E3 OMI LLC TRANSPORTER EPA #:TXD981055163 Sign 3 copies (Shipper/Generator, Transporter, & Consignee)	
DISPOSAL BILL TO: All Invoices must have a PO#: 35-2023-4002 Invoice: E3 OMI P.O.Box 1300 Clinton, MS 39060 email:admin@e3omi.com; cc: siokhong@e3omi.com		Freight Charge Terms (Freight charges are prepaid unless marked otherwise): Prepaid <input type="checkbox"/> Collect <input type="checkbox"/> 3rd Party <input type="checkbox"/> <input type="checkbox"/> Master bill of lading with attached underlying bills of lading.	
Special Notes/Instructions: Scheduled Date: Delta Water Processing Profile EOMI0559P			

CUSTOMER ORDER INFORMATION

Material/Waste Streams:	# of Packages	Weight	Pallet/Slip (circle one)		Additional Shipper Information
Oily Water recycling	1 TT		Y	N	Waste Disposal Pick-up/Delivery
			Y	N	Washout
			Y	N	In Plant Work no disposal
			Y	N	

CARRIER INFORMATION

Handling Unit		Package		Weight	HM (X)	Commodity Description/Material	LTL Only	
Qty	Type	Qty	Type				NMFC No.	Class
3800	gnl	1	TT			OILY WATER		

Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property as follows: "The agreed or declared value of the property is specifically stated by the shipper to be not exceeding _____ per _____"

COD Amount: _____

Fee terms: Collect ☐ Prepaid ☐ Customer check acceptable ☐

Note: Liability limitation for loss or damage in this shipment may be applicable. See 49 USC § 14706(c)(1)(A) and (B).

Received, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications, and rules that have been established by the carrier and are available to the shipper, on request, and to all applicable state and federal regulations.		Transporter Driver Print Name, Signature: 	
Shipper/Generator Signature/Date 8/4/23 <small>This is to certify that the above named materials are properly classified, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the DOT.</small>	Trailer Loaded: <input type="checkbox"/> By shipper <input type="checkbox"/> By driver	Freight Counted: <input type="checkbox"/> By shipper <input type="checkbox"/> By driver/pallets said to contain <input type="checkbox"/> By driver/pieces	TRANSPORTER PICK UP Date: <small>Carrier acknowledges receipt of packages and required placards. Carrier certifies emergency response information was made available and/or carrier has the DOT emergency response guidebook or equivalent documentation in the vehicle. Property described above is received in good order, except as noted.</small>

Received By Facility(Consignee): Print Name _____ Signature: _____

DATE Received: _____

BILL OF LADING – SHORT FORM – NOT NEGOTIABLE

Page 1 of 1

SHIP FROM (Shipper/Generator)

Address: Union Pacific Rail Road
4910 Liberty Road, Houston, TX 77026

Phone#:

Bill of Lading(BOL# =E3OMI JOB- For Multiple loads, add -01.02..

BOL#: 035-23-0015-08.04-02

Receiving Facility/Consignee Name:

Address: Delta Water Processing
18511 Beaumont Hwy, Houston, TX 77049

Phone#: 281-404-4424

Trailer number: Serial number(s):

Roll-off BOx#

TRANSPORTER/Carrier Name

E3 OMI LLC

TRANSPORTER EPA #:TXD981055163

Sign 3 copies (Shipper/Generator, Transporter, & Consignee)

DISPOSAL BILL TO:

All Invoices must have a PO#: 35-2023-002 402
Invoice: E3 OMI P.O.Box 1300 Clinton, MS 39060
email:admin@e3omi.com; cc: siokhong@e3omi.com

Special Notes/Instructions: Scheduled Date:

Delta Water Processing Profile EOMI0559P

Freight Charge Terms (Freight charges are prepaid unless marked otherwise):

Prepaid ☐ Collect ☐ 3rd Party ☐

☐ Master bill of lading with attached underlying bills of lading.

CUSTOMER ORDER INFORMATION

Material/Waste Streams:	# of Packages	Weight	Pallet/Slip (circle one)	Additional Shipper Information
Oily Water recycling	1 TT	9034	Y N	Waste Disposal Pick-up/Delivery
			Y N	Washout
			Y N	In Plant Work no disposal
			Y N	

CARRIER INFORMATION

Handling Unit		Package					LTL Only	
Qty	Type	Qty	Type	Weight	HM (X)	Commodity Description/Material	NMFC No.	Class
		1	TT			OILY WATER		

Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property as follows: "The agreed or declared value of the property is specifically stated by the shipper to be not exceeding per

COD Amount:

Fee terms: Collect ☐ Prepaid ☐ Customer check acceptable ☐

Note: Liability limitation for loss or damage in this shipment may be applicable. See 49 USC § 14706(c)(1)(A) and (B).

Received, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications, and rules that have been established by the carrier and are available to the shipper, on request, and to all applicable state and federal regulations.

Transporter Driver Print Name, Signature:

Juan Navarro

Shipper/Generator Signature/Date

7-44 April 28 8/4/23
This is to certify that the above named materials are properly classified, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the DOT.

Trailer Loaded:

☐ By shipper
☐ By driver

Freight Counted:

☐ By shipper
☐ By driver/pallets said to contain
☐ By driver/pieces

TRANSPORTER PICK UP Date:

Carrier acknowledges receipt of packages and required placards. Carrier certifies emergency response information was made available and/or carrier has the DOT emergency response guidebook or equivalent documentation in the vehicle. Property described above is received in good order, except as noted.

Received By Facility(Consignee): Print Name

Samuel A

Signature:

DATE Received: 8-4-23