



May 15, 2024

Project No. 31406585.016

Mr. Jerry Wick

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/REVISED INTERIM MEASURES WORK PLAN CONSTRUCTION
ACTIVITIES
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 Mr. Wick:

WSP USA Inc. (WSP), on behalf of Union Pacific Railroad Company (UPRR), is pleased to provide this monthly status update for April 2024 summarizing weekly 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. In addition, this monthly update includes weekly summaries of the construction activities being conducted in accordance with the *Revised Interim Measures Work Plan – Englewood Intermodal Yard (EIY)* dated October 20, 2023. The TCEQ requested in the Conditional Approval letter dated January 9, 2024, that weekly summaries be provided in the monthly status updates detailing the activities being implemented per the Revised Interim Work Plan. Below is a summary of the inspections and Interim Measures Work Plan activities.

Non-Aqueous Phase Liquid (NAPL) Collection System Inspections

A 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 April 2024 (photographs from the weekly inspections (April 3rd (Photo Nos. 1 – 21) April 10th (Photo Nos. 23 – 39), April 17th (Photo Nos. 40 – 60), and April 24th (Photo Nos. 61 – 81)) are provided in Attachment A):

- The NAPL Collection System Sump 1 (B099/B100 stalls), Sump 2 (B103/B104 stalls), and Sump 3 (B107/B108 stalls) 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 April 2024. A hoe has continued to be used to recover DNAPL, if present, from the bottom of each of the sumps during the weekly inspections. In Sump 1,

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approximately 2 cubic inches of NAPL were recovered during the inspection on April 3rd. No DNAPL was encountered or recovered from Sumps 2 or 3 during April 2024 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. Some NAPL, less than 0.5 gallons, was recovered from the B099/B100 sump during the pump down event on April 26, 2024. NAPL recovered from the sumps is placed in a drum for disposal. The drum is staged at the Container Storage Area (CSA). The inflow protector was monitored for NAPL accumulation, and no accumulation was observed through April 2024.

- No new tar-like material seeps were observed along the concrete joint between the NAPL Collection System and the existing concrete at Stall B107 during the April 2024 inspections (Photo Nos. 16, 27, 60, 62).
- Water levels in NAPL Collection System Sump 1, Sump 2, and Sump 3 were measured at 0, 10 and 10 inches from the top of the manholes, respectively, during the inspection on April 3, 2024 (Photo Nos. 19-21). During the April 10, 2024 inspection, water levels in all three sumps were measured at the top of the manhole due to heavy rains (Photo Nos. 30-32). On April 17, 2024, Sumps 1, 2, and 3 were measured at 0, 10, and 9.5 inches from the top of the manhole, respectively (Photo Nos. 41-43). During the April 24, 2024 inspection, Sumps 1, 2, and 3 each had 2.5, 12, and 11 inches of freeboard measured, respectively (Photo No. 64-66). On April 26, 2024 environmental remediation contractor, E3 Environmental (E3), previously E3 OMI, pumped down all three sumps (Photo No. 82) and transported the profiled water to Delta Water Processing in Houston, Texas for disposal. Final shipping documents from the event are included in Attachment B. During the April 2024 inspections, the water in Sump 1 was observed to be light brown or brown in color and the water in Sumps 2 and 3 was observed to be clear. A sheen was observed at Sump 1 during the April 24, 2024 inspection (Photo No. 64). No odors were reported during the April inspections.

Areas Outside NAPL Collection System Inspections

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 April 2024 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	April 10 th (Photo No. 33)
A022	April 17 th and 24 th (Photo No. 47 and 72)
B042	April 3 rd and 17 th (Photo Nos. 7 and 50)
B056	April 3 rd and 17 th (Photo Nos. 8 and 52)
B057	April 3 rd , 10 th and 17 th (Photo Nos. 9, 25 and 53)
B096	April 3 rd and 17 th (Photo No. 13 and 55)
B100	April 3 rd and 17 th (Photo No. 14 and 56)

Seep Observations Outside the NAPL Collection System Area	
Stall Number	Observation Date(s)
B102 Joint	April 3 rd and 17 th (Photo No. 10 and 57)
Track 802	April 10 th , 17 th and 24 th (Photo Nos. 23, 51 and 67)
RD-14	April 3 rd , April 17 th and 24 th (Photo Nos. 18, 40 and 75)

Note: Seep observed next to Track 802 is approximately 280 feet northwest of the NAPL Collection System. Seep RD-14 is located within the concrete road area (RD-14) about 45 feet north of Track 802 and east of the existing Track 802 seep location.

- Tar-like material observed during the weekly inspection events was removed and recovered using a hand tool to scrap up the material. The number of tar-like material seeps observed, and total volume of material recovered during the month of April was slightly more than during the March inspections. Less than 0.3 gallons of tar-like material were recovered for the month from the seep locations. The material recovered was placed in a drum staged at the CSA for disposal.
- UPRR remediation contractor E3 was mobilized to the site on April 8th to pressure wash areas of brown staining/residue present in cracks in the pavement in stall A010 and stalls A060-A061 (Photo No. 22). The heaviest staining was present in stalls A060- A061 (Photo No. 17). The brown staining was again observed in cracks in the pavement in stalls A060-A070 during the April 17th inspection (Photo No. 54); however, the staining was no longer present during the April 24th inspection (Photo No. 78). A small amount of seep water returned to the depression in the joint between the asphalt and concrete pavement in stall A010 during the April 24th inspection (Photo No. 69). E3 returned to the site on April 26, 2024, to recover this seep water. Wash water from the clean-up events was recovered and is staged in a tote onsite pending transportation and disposal. UPRR will continue to have a remediation contractor pressure wash and collect the water in the areas where the brown staining and seeps are observed, as needed.
- During the April 3 and 17, 2024 inspections, a small amount of tar like material was observed in stall B096 adjacent to the test pit patch location. No NAPL seeps were observed at the other six July 2020 test pit locations (stalls A010, A021, A098, B013, B057 and B108). The seep observed in stall B057 is located in the 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 and test pit evaluation will be provided in the Interim Measures Response Action Completion Report after the activities detailed in the Interim Measure Work Plan (discussed below) are completed.

Interim Measures Work Plan Activities

The TCEQ conditional approval letter dated January 9, 2024 for the Revised Interim Measures Work Plan requested UPRR provide weekly summaries during the remediation activities detailing that adequate air monitoring and dust suppression, soil management, and stormwater protection activities are being implemented in accordance with the approved plans provided in the Revised Interim Measures Work Plan. UPRR initiated the remediation activities on April 29, 2024. The following is a summary of the weekly activities conducted as part of the interim measures at the Englewood Intermodal Yard in April 2024 (April 29th-30th):

- **Remediation Activities:**

- UPRR remediation contractor E3 mobilized their equipment to the Site on April 29th including delivering and staging roll-off bins to store and contain the excavated material. On April 30th, E3 began cutting asphalt/concrete pavement at focused excavation locations FE-1 through FE-4 and FE-7 and FE-8. E3 removed the asphalt pavement from FE-1 and FE-3 and placed the excavated asphalt into roll-off containers.
- **Dust Control and Air Monitoring:**
 - Atlas Technical Consultants (Atlas) conducted real time air and dust monitoring at the Site in accordance with the Dust Control and Air Monitoring Plan (October 20, 2023). No Target Dust Control Levels were exceeded during the remediation activities on April 29th and 30th.
- **Soil/Waste Management**
 - The removed material (asphalt pavement) was containerized in roll-offs staged on Site and sampled for waste characterization. The roll-offs were covered when not actively being loaded.
- **Stormwater Management**
 - There was no rainfall on April 29th or 30th that resulted in management of stormwater within the Project area.

If you have any questions or need additional information, please feel free to call us at (512) 501-5547 or Mr. Kevin Peterburs of UPRR at (414) 267-4164.

Sincerely,

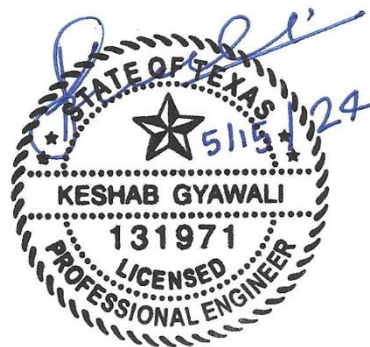
WSP USA Inc.



Catherine Mear, GIT
Consultant, Environmental Scientist



Keshab Gyawali, P.E.
Senior Consultant, Environmental Engineer



CC: Kevin Peterburs, UPRR – Milwaukee, WI
Karina Rocha, Waste Section Manager, TCEQ Region 12, Houston

Attachment Table 1 – NAPL Measurements – NAPL Collection System
Attachment A – Weekly Inspection Photolog
Attachment B – Waste Manifests

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	

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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
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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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
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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
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/B100 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. Pumpdown conducted 8/4/2023.
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/B100 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/B100 water color dark brown and, light brown on both B103/B104 and B107/B108.
9/6/2023	1	38	38	Not measurable	Sheen visible in all Sumps. B099/B100 water color light brown, and clear on both B103/B104 and B107/B108.
9/13/2023	0	33	33	Not measurable	Sheen Visible on B099/B100 and B107/B108. Water color brown on B099/B100 and clear on B103/B104 and B107/B108. Pumpdown conducted 9/15/2023.
9/20/2023	14	41	40	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.
9/27/2023	0.5	33	34	Not measurable	Sheen Visible on B099/B100 and B107/B108. Water color light brown on B099/B100 and clear on B103/B104 and B107/B108.

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
10/4/2023	0	0	0	Not measurable	No sheen visible in all sumps. Water color brown on B099/B100 and light brown on B103/B104 and B107/B108. Heavy rains all week filled up sumps.
10/11/2023	0	0	0	Not measurable	Sheen visible on B103/B104. B099/B100 water color light brown, clear on B103/B104 and B107/B108. Heavy rains in the week filled up sumps. Pumpdown conducted 10/13/2023.
10/18/2023	46	48	47	Not measurable	Sheen visible on B099/B100 and B107/B108. Water color brown on B099/B100. Water color clear on B103/B104. Water color light brown on B107/B108.
10/25/2023	39	44	43	Not measurable	Sheen visible on B099/B100 and B107/B108. Water color dark brown on B099/B100 and light brown on B103/B104 and B107/B108.
11/1/2023	6.5	33	33	Not measurable	Sheen visible on B099/B100 and B107/B108. Water color light brown on B099/B100 and clear on 103/B104 and B107/B108.
11/8/2023	12	34	33	Not measurable	Sheen visible on B099/B100. Water color light brown on B099/B100 and clear on 103/B104 and B107/B108.
11/15/2023	2	6	5.5	Not measurable	No sheen observed in any of the sumps. Water color light brown on B099/B100 and clear on 103/B104 and B107/B108.
11/22/2023	7	13	12	Not measurable	No sheen observed in any of the sumps. Water color light brown on B099/B100 and clear on 103/B104 and B107/B108.
11/29/2023	5.5	10	9.5	Not measurable	No sheen observed in any of the sumps. Water color light brown on B099/B100 and clear on 103/B104 and B107/B108.
12/6/2023	8	14	14	Not measurable	No sheen observed in any of the sumps. Water color light brown on B099/B100 and clear on 103/B104 and B107/B108.
12/13/2023	5	10	9.5	Not measurable	No sheen observed in any of the sumps. Water color light brown on B099/B100 and clear on 103/B104 and B107/B108.
12/20/2023	5	10	9	Not measurable	No sheen observed in any of the sumps. Water color light brown on B099/B100 and clear on 103/B104 and B107/B108.
12/27/2023	6	13	11	Not measurable	No sheen observed in any of the sumps. Water color light brown on B099/B100 and clear on 103/B104 and B107/B108.
1/3/2024	0	0	0	Not measurable	No sheen observed in any of the sumps. Water color light brown on B099/B100 and clear on 103/B104 and B107/B108.
1/10/2024	5	10	9.5	Not measurable	No sheen observed in any of the sumps. Water color light brown on B099/B100 and clear on B103/B104 and B107/B108.
1/17/2024	12	15.5	15	Not measurable	No sheen observed in any of the sumps. Water color light brown on B099/B100 and clear on B103/B104 and B107/B108.
1/24/2024	0	0	0	Not measurable	No sheen observed in any of the sumps. Water color clear in all sumps.
1/31/2024	2	9.5	9	Not measurable	No sheen observed in any of the sumps. Water color light brown on B099/B100 and clear on B103/B104 and B107/B108.
2/7/2024	2	18	16	Not measurable	No sheen observed in any of the sumps. Water color light brown on B099/B100 and clear on B103/B104 and B107/B108.
2/14/2024	6	18	18	Not measurable	No sheen observed in any of the sumps. Water color clear on B099/B100, B103/B104 and B107/B108.
2/21/2024	6	14	13	Not measurable	No sheen observed in any of the sumps. Water color light brown on B099/B100 and clear on B103/B104 and B107/B108.
2/28/2024	4	14	15	Not measurable	No sheen observed in any of the sumps. Water color light brown on B099/B100 and clear on B103/B104 and B107/B108.
3/6/2024	4	15	15	Not measurable	No sheen observed in any of the sumps. Water color light brown on B099/B100 and clear on B103/B104 and B107/B108.
3/13/2024	0	11	11	Not measurable	No sheen observed in any of the sumps. Water color light brown on B099/B100 and clear on B103/B104 and B107/B108.
3/20/2024	0	7.5	7.5	Not measurable	No sheen observed in any of the sumps. Water color light brown on B099/B100 and clear on B103/B104 and B107/B108.

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
3/27/2024	0	7	6	Not measureable	No sheen observed in any of the sumps. Water color light brown on B099/B100 and clear on B103/B104 and B107/B108. Some DNAPL (1.5 inches) was recovered from the bottom of Sump 1.
4/3/2024	0	10	10	Not measureable	No sheen observed in any of the sumps. Water color light brown on B099/B100 and clear on B103/B104 and B107/B108. Some DNAPL (2 cubic inches) was recovered from the bottom of Sump 1.
4/10/2024	0	0	0	Not measureable	No sheen observed in any of the sumps. Water color brown on B099/B100 and clear on B103/B104 and B107/B108.
4/17/2024	0	10	9.5	Not measureable	No sheen observed in any of the sumps. Water color light brown on B099/B100 and clear on B103/B104 and B107/B108.
4/24/2024	2.5	12	11	Not measureable	Sheen visible on B099/B100. Water color brown on B099/B100 and clear on B103/B104 and B107/B108. Pumpdown conducted 4/26/2024.

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:

4/3/2024

Description:

Stall A022. No tar-like material observed at Test Pit A022 location.

Lat: 29.785378

Long: -95.318694



Photo No.

2

Inspection Date:

4/3/2024

Description:

Stall A011. No tar-like material observed at Test Pit A011 location. Minimal seep water staining present in the cracks of the asphalt.

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.
3

Inspection Date:
4/3/2024

Description:

Stall A010. No tar-like material observed at Test Pit A010 location. Minimal seep water staining present in the cracks of the asphalt.

Lat: 29.785517

Long: -95.31834



Photo No.
4

Inspection Date:
4/3/2024

Description:

Stall A021. No tar-like material seeps observed at Test Pit A021.

Lat: 29.785387

Long: -95.318654





PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Intermodal Yard, Houston, Texas

Project No.
31406585.016

Photo No.
5

Inspection Date:
4/3/2024

Description:

Stall B013. No tar-like material seeps noted at Test Pit B013.

Lat: 29.78532
Long: -95.31833



Photo No.
6

Inspection Date:
4/3/2024

Description:

Stall B016. No tar-like material observed at historical seep location along asphalt crack.

Lat: 29.785271
Long: -95.31841





PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Intermodal Yard, Houston, Texas

Project No.
31406585.016

Photo No.
7

Inspection Date:
4/3/2024

Description:

Stall B042. some tar-like material observed at historical seep site along concrete joint, material removed.

Lat: 29.784923
Long: -95.319124



Photo No.
8

Inspection Date:
4/3/2024

Description:

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

Lat: 29.784751
Long: -95.319532





Client Name:
Union Pacific Railroad

Site Location:
Englewood Intermodal Yard, Houston, Texas

Project No.
31406585.016

Photo No.
9

Inspection Date:
4/3/2024

Description:

Stall B057 (joint), some tar-like material observed at historical seep site along concrete joint, material removed.

Lat: 29.784747
Long: -95.319549



Photo No.
10

Inspection Date:
4/3/2024

Description:

Stall B102 (joint) some tar-like material observed at historical seep site along concrete joint, material removed.

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.
11

Inspection Date:
4/3/2024

Description:

Stall B102 (center), no tar-like material observed at seep location along cracks in pavement.

Lat: 29.784233
Long: -95.320847



Photo No.
12

Inspection Date:
4/3/2024

Description:

Stall B105, no new tar-like material observed at the historical seep location along asphalt crack.

Lat: 29.784209
Long: -95.320943





PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Intermodal Yard, Houston, Texas

Project No.
31406585.016

Photo No.
13

Inspection Date:
4/3/2024

Description:

Stall B096, some tar-like material observed at historical seep location along concrete joint at Test Pit B096, material removed.

Lat: 29.784276
Long: -95.320651



Photo No.
14

Inspection Date:
4/3/2024

Description:

Stall B100, some tar-like material observed on concrete crack/hole in concrete, material removed.

Lat: 29.784236
Long: -95.320786





PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Intermodal Yard, Houston, Texas

Project No.
31406585.016

Photo No.

15

Inspection Date:

4/3/2024

Description:

North side of Track 802, no new tar-like material observed at seep location near the edge of the ballast.

Lat: 29.784947

Long: -95.321214



X 77026

Photo No.

16

Inspection Date:

4/3/2024

Description:

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

Lat: 29.784137

Long: -95.32096



B.24

Englewood, TX 77026



PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Intermodal Yard, Houston, Texas

Project No.
31406585.016

Photo No.
17

Inspection Date:
4/3/2024

Description:

Stalls A060 - A070, some residual staining previously observed along cracks in pavement. No new water seeps observed. Viewing southwest.

Lat: 29.784858
Long: -95.319733



Photo No.
18

Inspection Date:
4/3/2024

Description:

RD-14 Seep location observed within the concrete road area north of Track 802 (east of existing Track 802 seep location). Some tar-like material observed along a concrete joint, material 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.
19

Inspection Date:
4/3/2024

Description:

Sump 1 (B099/B100), 0 inches of freeboard in sump, no odor noted, no sheen observed, water color noted as light brown. Approximately 2 in³ of DNAPL was recovered.

Lat: 29.7844000
Long: - 95.3205861



Photo No.
20

Inspection Date:
4/3/2024

Description:

Sump 2 (B103/B104), 10 inches of freeboard in sump. No odor or sheen observed, color noted as clear.

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.
21

Inspection Date:
4/3/2024

Description:

Sump 3 (B107/B108), 10 inches of freeboard in sump, no sheen observed, water color noted as clear.

Lat: 29.7844000
Long: - 95.3205861



Photo No.
22

Inspection Date:
4/8/2024

Description:

Remediation contractor E3 pressure washing brown staining on stalls A060-A061.

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.
23

Inspection Date:
4/10/2024

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



Photo No.
24

Inspection Date:
4/10/2024

Description:

Stall B056. No new tar-like material observed at historical seep location along asphalt crack.

Lat: 29.7847472
Long: -95.3195417





PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Intermodal Yard, Houston, Texas

Project No.
31406585.016

Photo No.
25

Inspection Date:
4/10/2024

Description:

Stall B057, some tar-like material observed along asphalt crack, material removed.

Lat: 29.784769

Long: -95.3195798



Photo No.
26

Inspection Date:
4/10/2024

Description:

Stall A022. No new tar-like material observed at historical seep location along asphalt crack.

Lat: 29.785378

Long: -95.318694





PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Intermodal Yard, Houston, Texas

Project No.
31406585.016

Photo No.
27

Inspection Date:
4/10/2024

Description:

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

Lat: 29.784137

Long: -95.32096



Photo No.
28

Inspection Date:
4/10/2024

Description:

Stall B100, no new tar-like material observed at seep location along asphalt crack/ hole in the asphalt.

Lat: 29.7842528

Long: - 95.3206250





PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Intermodal Yard, Houston, Texas

Project No.
31406585.016

Photo No.
29

Inspection Date:
4/10/2024

Description:

Stall B096, no new tar-like material observed at historical seep location along concrete joint.

Lat: 29.7842528
Long: -95.3206250



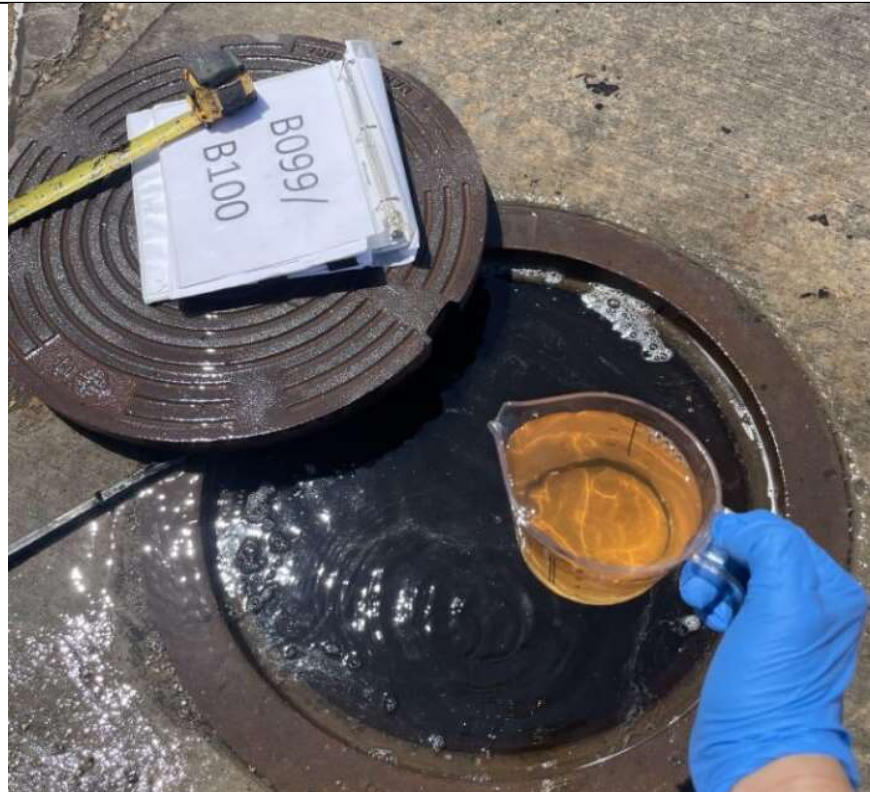
Photo No.
30

Inspection Date:
4/10/2024

Description:

Sump 1 (B099/B100), 0 inches of freeboard in sump, no sheen observed, 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.
31

Inspection Date:
4/10/2024

Description:

Sump 2 (B103/B104), 0 inches of freeboard in sump. No odor or sheen observed, color noted as clear.

Lat: 29.7842861
Long: - 95.3208611



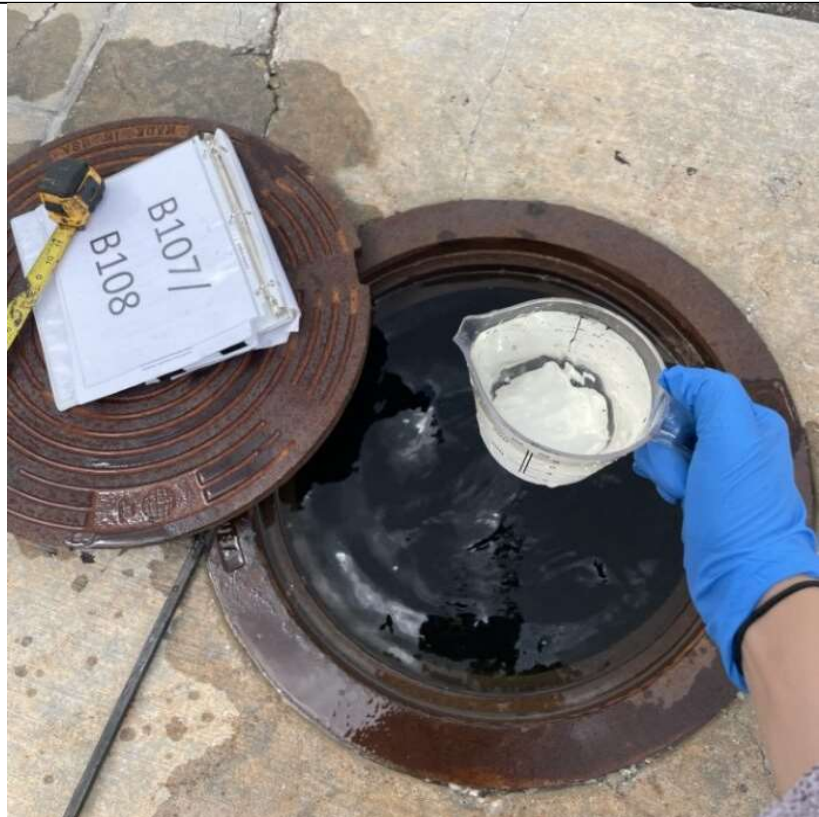
Photo No.
32

Inspection Date:
4/10/2024

Description:

Sump 3 (B107/B108), 0 inches of freeboard in sump, no sheen observed, water color noted as clear.

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.
33

Inspection Date:
4/10/2024

Description:

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

Lat: 29.785467
Long: -95.318341



Photo No.
34

Inspection Date:
4/10/2024

Description:

Stall B102 (joint) no new tar-like material observed at historical seep site along concrete joint.

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.
35

Inspection Date:
4/10/2024

Description:

Stall B105, no new tar-like material observed at the historical seep location along asphalt crack.

Lat: 29.784209
Long: -95.320943



Photo No.
36

Inspection Date:
4/10/2024

Description:

Stall B042. No new tar-like material observed at historical seep location along concrete crack.

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.
37

Inspection Date:
4/10/2024

Description:

RD-14 Seep location observed within the concrete road area (RD-14) north of Track 802 (east of existing Track 802 seep location), no new tar-like material observed along a concrete joint.

Lat: 29.785064

Long: -95.321219



Photo No.
38

Inspection Date:
4/10/2024

Description:

Stall B102 (center), no tar-like material observed at seep location along cracks in pavement.

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.
39

Inspection Date:
4/10/2024

Description:

Stalls A060 - A070, some residual staining previously observed along cracks in pavement. No new water seeps observed. Viewing southwest.

Lat: 29.784858
Long: -95.319733



Photo No.
40

Inspection Date:
4/17/2024

Description:

RD-14 Seep location observed within the concrete road area north of Track 802 (east of existing Track 802 seep location), some new 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.
41

Inspection Date:
4/17/2024

Description:

Sump 1 (B099/B100), 0 inches of freeboard in sump, no sheen observed, water color noted as light brown.

Lat: 29.7844000
Long: - 95.3205861



Photo No.
42

Inspection Date:
4/17/2024

Description:

Sump 2 (B103/B104), 10 inches of freeboard in sump. No odor or sheen observed, color noted as clear.

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.
43

Inspection Date:
4/17/2024

Description:

Sump 3 (B107/B108), 9.5 inches of freeboard in sump, no sheen observed, water color noted as clear.

Lat: 29.7844000
Long: - 95.3205861



Photo No.
44

Inspection Date:
4/17/2024

Description:

Stall A010. No tar-like material seeps observed at Test Pit A010.

Lat: 29.785517
Long: -95.31834





PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Intermodal Yard, Houston, Texas

Project No.
31406585.016

Photo No.
45

Inspection Date:
4/17/2024

Description:

Stall A011. No new tar-like material observed at historical seep location along asphalt crack.

Lat: 29.785467
Long: -95.318341



Photo No.
46

Inspection Date:
4/17/2024

Description:

Stall A021. No tar-like material seeps observed at Test Pit A021.

Lat: 29.785387
Long: -95.318654





PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Intermodal Yard, Houston, Texas

Project No.
31406585.016

Photo No.
47

Inspection Date:
4/17/2024

Description:

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

Lat: 29.78537
Long: - 95.31869



Photo No.
48

Inspection Date:
4/17/2024

Description:

Stall B013. No tar-like material seeps observed at Test Pit B013.

Lat: 29.78532
Long:-95.31833





PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Intermodal Yard, Houston, Texas

Project No.
31406585.016

Photo No.
49

Inspection Date:
4/17/2024

Description:

Stall B016. No tar-like material observed at historical seep location along asphalt crack.

Lat: 29.785271
Long: -95.31841



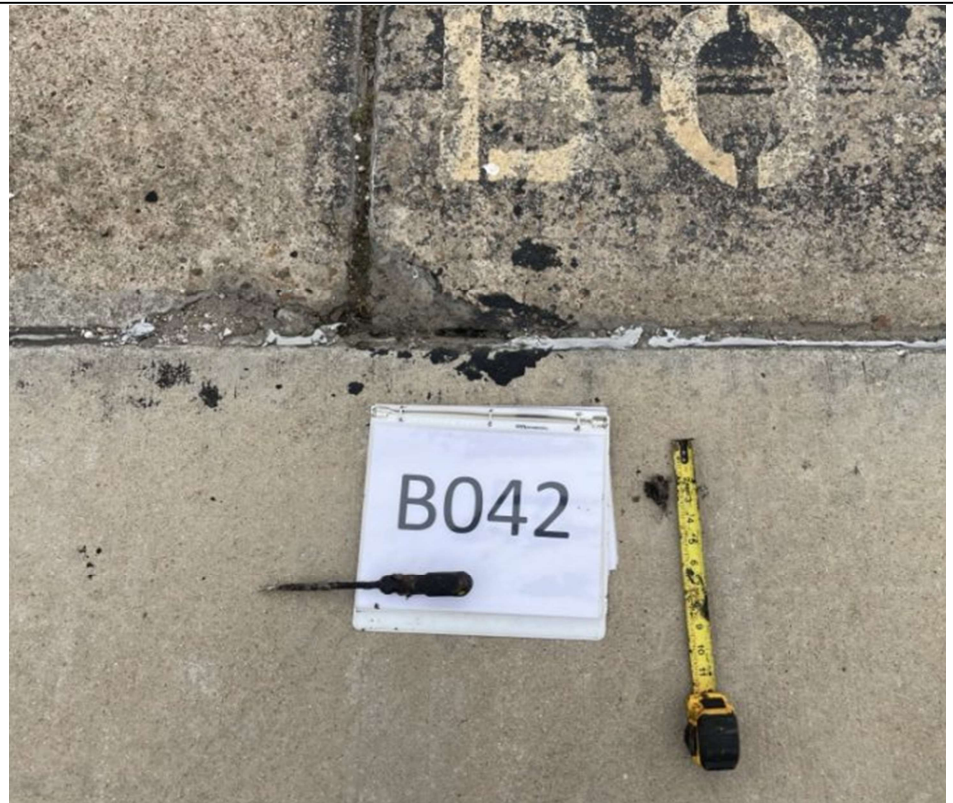
Photo No.
50

Inspection Date:
4/17/2024

Description:

Stall B042. Some tar-like material observed at historical seep location along asphalt crack, material 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.
51

Inspection Date:
4/17/2024

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



Photo No.
52

Inspection Date:
4/17/2024

Description:

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

Lat: 29.784742
Long: -95.3195417





PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Intermodal Yard, Houston, Texas

Project No.
31406585.016

Photo No.
53

Inspection Date:
4/17/2024

Description:

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

Lat: 29.784769

Long: -95.3195798



Photo No.
54

Inspection Date:
4/17/2024

Description:

Stalls A060 - A070, some residual staining previously observed along cracks in pavement. No new water seeps observed. Viewing southwest.

Lat: 29.78484

Long: -95.31974





PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Intermodal Yard, Houston, Texas

Project No.
31406585.016

Photo No.
55

Inspection Date:
4/17/2024

Description:

Stall B096, some tar-like material observed at historical seep location along concrete joint, material removed.

Lat: 29.7842528
Long: -95.3206250



Photo No.
56

Inspection Date:
4/17/2024

Description:

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

Lat: 29.7842528
Long: - 95.3206250





PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Intermodal Yard, Houston, Texas

Project No.
31406585.016

Photo No.
57

Inspection Date:
4/17/2024

Description:

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

Lat: 29.7842203
Long: - 95.320827



Photo No.
58

Inspection Date:
4/17/2024

Description:

Stall B102 (center), no tar-like material observed at seep location where pavement is cracked.

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.
59

Inspection Date:
4/17/2024

Description:

Stall B105, no new tar-like material observed at the historical seep location along asphalt crack.

Lat: 29.784209
Long: -95.320943



Photo No.
60

Inspection Date:
4/17/2024

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





PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Intermodal Yard, Houston, Texas

Project No.
31406585.016

Photo No.
61

Inspection Date:
4/24/2024

Description:

Stall B102 (center), no seep observed.

Lat: 29.784769

Long: -95.3195798



Photo No.
62

Inspection Date:
4/24/2024

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





PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Intermodal Yard, Houston, Texas

Project No.
31406585.016

Photo No.
63

Inspection Date:
4/24/2024

Description:

Stall B057 (joint), no new tar-like material observed at historical seep location at Test Pit B057.

Lat: 29.784747
Long: -95.319549



Photo No.
64

Inspection Date:
4/24/2024

Description:

Sump 1 (B099/B100), 2.5 inches of freeboard in sump, a sheen on the water surface observed, 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.
65

Inspection Date:
4/24/2024

Description:

Sump 2 (B103/B104), 12 inches of freeboard in sump. No odor or sheen observed, color noted as clear.

Lat: 29.7842861

Long: - 95.3208611



Photo No.
66

Inspection Date:
4/24/2024

Description:

Sump 3 (B107/B108), 11 inches of freeboard in sump, no sheen observed, water color noted as clear.

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.

67

Inspection Date:

4/24/2024

Description:

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

Lat: 29.784947

Long: -95.321214



Photo No.

68

Inspection Date:

4/24/2024

Description:

Stall A010. No seeps noted at Test Pit A010. A small amount of seep water is present in the depression in the asphalt behind the test pit location.

Lat: 29.785517

Long: -95.31834





PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Intermodal Yard, Houston, Texas

Project No.
31406585.016

Photo No.
69

Inspection Date:
4/24/2024

Description:

Stall A011. No new tar-like material observed at historical seep location along asphalt crack. Some staining observed along cracks in pavement.

Lat: 29.785467
Long: -95.318341



Photo No.
70

Inspection Date:
4/24/2024

Description:

Stall B013. No seeps noted at Test Pit B013.

Lat: 29.78532
Long:-95.31833





PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Intermodal Yard, Houston, Texas

Project No.
31406585.016

Photo No.
71

Inspection Date:
4/24/2024

Description:

Stall B016. No tar-like material observed at historical seep location along asphalt crack.

Lat: 29.785271
Long: -95.31841



Photo No.
72

Inspection Date:
4/24/2024

Description:

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

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.
73

Inspection Date:
4/24/2024

Description:

Stall A021. No seeps noted at Test Pit A021.

Lat: 29.785387
Long: -95.318654



Photo No.
74

Inspection Date:
4/24/2024

Description:

Stall B042. No new tar-like material observed at historical seep location along concrete joint.

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.
75

Inspection Date:
4/24/2024

Description:

RD-14 Seep location observed within the concrete road area north of Track 802 (east of existing Track 802 seep location), some new tar-like material observed along a concrete joint. Material was removed.

Lat: 29.785064

Long: - 95.321219



Photo No.
76

Inspection Date:
4/24/2024

Description:

Stall B056. No new tar-like material observed at historical seep location along asphalt crack.

Lat: 29.7847472

Long: -95.3195417





PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Intermodal Yard, Houston, Texas

Project No.
31406585.016

Photo No.
77

Inspection Date:
4/24/2024

Description:

Stall B105, no new tar-like material observed at the historical seep location along asphalt crack.

Lat: 29.784209
Long: -95.320943



Photo No.
78

Inspection Date:
4/24/2024

Description:

Stalls A060 - A070, some residual staining previously observed along cracks in pavement. No new water seeps observed. Viewing southwest.

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.

79

Inspection Date:

4/24/2024

Description:

Stall B096, no new tar-like material observed at historical seep location along concrete joint next to Test Pit B096.

Lat: 29.7842528

Long: -95.3206250



Photo No.

80

Inspection Date:

4/24/2024

Description:

Stall B100, no new tar-like material observed at seep location along asphalt crack/ hole in the asphalt.

Lat: 29.7842528

Long: - 95.3206250





PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Intermodal Yard, Houston, Texas

Project No.
31406585.016

Photo No.
81

Inspection Date:
4/24/2024

Description:

Stall B102 Joint, no new tar-like material observed at seep location along stall joint.

Lat: 29.7842203
Long: - 95.320827



Photo No.
82

Inspection Date:
4/26/2024

Description:

NAPL Collection System Water Pump Down

Lat: 29.7844000
Long: - 95.3205861





ATTACHMENT B

Waste Shipping Documentation

Special Instructions:
Profile Approval# EOMI 0559 P
WR # 017442

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.

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Signature: _____

W **E** **S** **T** **A** **N** **D** **I** **C** **A** **T** **I** **O** **N**

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.

DATE _____ TIME _____

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: Camryn Johnson

Summary

05

BILL OF LADING--SHORT FORM--NOT NEGOTIABLE

SHIP FROM (GENERATOR NAME):

[Name] Union Pacific Rail road
[Street Address] 4910 Liberty Road
[City, ST ZIP Code] Houston, TX 77026
[Phone#:]

Bill of Lading Number:

BOL#: 135-24-0294

(BOL#=E3OMI JOB #- FOR MULTIPLE LOADS, ADD -01, 02, ETC.)

RECEIVING FACILITY/CONSIGNEE NAME:

[Name] Delta Water Processing
[Street Address] 18511 Beaumont Hwy
[City, ST ZIP Code] Houston, Tx 77049
[Phone#:] (281) 404-4424

TRANSPORTER/CARRIER NAME

Company Name: E3 OMI
Transporter EPA #: TXD981055163
Vehicle/Unit/Trailer #:
Roll box/Vac box/Tanker #:

DISPOSAL BILL TO

All Invoices must have a PO#: 035-2024-0033
Mail Invoices: E3 OMI PO Box 1300 Clinton, MS 39060
Email Invoices: admin@e3omi.com/ claraque@e3omi.com

JOB TYPE

☒ WASTE DISPOSAL PICK-UP/DELIVERY
☐ WASHOUT
☐ IN PLANT WORK NO DISPOSAL

Special Instructions:

Profile Approval# EOMI 0559 P
WR # 017442

Containers

Carrier Information

No.	Type	Total Quantity	Unit Wt./Vol.	HM (X)	Commodity Description/Material
1	TT	2500	G		Non-DOT Regulated Material (Oily water)

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

Print Name: DARRICK JONES

Signature:

[Signature]

Shipper Signature/Date

[Signature] OBO UPRR 4/26/24

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.

Transporter Pickup Date:

4-26-24

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:

Cameron Johnson

Signature:

[Signature]

Date:

4/26/24

Signature: _____

Anthony McMullins, Corporate Waste Coordinator, E3 OMI, Deer Park 409-229-5858 File: BOL 10.04.23