



March 14, 2025

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 AND REVISED INTERIM MEASURES WORK PLAN POST-
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 February 2025 summarizing the weekly inspections being conducted at the Englewood Intermodal Yard (EIY) concrete cap area within the UPRR Houston Wood Preserving Works Facility (the Site). The weekly inspections are being conducted to evaluate the post-construction Focused Excavations as detailed in the *Revised Interim Measures Work Plan – Englewood Intermodal Yard (EIY)*, (Revised IMWP) dated October 20, 2023. In addition, a summary of the weekly NAPL Collection System and concrete cap area inspections conducted at the EIY is provided as requested by the TCEQ in a letter dated March 20, 2018. Below is a summary of the weekly Focused Excavation and EIY inspections for February 2025.

Interim Measures Work Plan Activities

The TCEQ Conditional Approval letter dated January 9, 2024, for the Revised IMWP requested UPRR provide weekly summaries during the Focused Excavation 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 IMWP. UPRR initiated the remediation activities on April 29, 2024, and completed IMWP construction activities on November 15, 2024. The last phase to be completed under the Revised IMWP is the waste disposal, which is currently in progress. With the conclusion of the construction activities and pending waste disposal, detailed weekly construction summaries are no longer necessary. However, as required in the Revised IMWP, WSP on behalf of UPRR, inspected the completed Focused Excavation areas weekly as part of the on-going EIY concrete cap inspection activities. Weekly inspections of the completed Focused Excavations are summarized below with updates on the waste disposal.

Weekly Focused Excavation Inspections

- Weekly inspections of the completed 13 Focused Excavation areas were conducted on February 5, 12, 19, and 26, 2025. Photographs from the weekly inspections are provided in Attachment A under Photo Numbers 1 through 62.
- WSP noted that the reconstructed Focused Excavation concrete and asphalt cap areas were in good condition during the weekly inspections. There were no NAPL seeps observed at the Focused Excavation areas.

Revised IWMP Waste Management and Disposal

- Soils/Miscellaneous
 - No waste was transported off site this month.
- Stormwater
 - A Temporary Discharge Authorization was granted by the City of Houston (COH) Public Works on January 17, 2025, authorizing UPRR to discharge approximately 400,000 gallons of stormwater into the City's POTW through the permitted water treatment plant located at the UPRR Settegast Yard (Industrial Wastewater Treatment Plant (IWTP)).
 - On January 31, an exceedance was observed at the UPRR Settegast Yard. Stormwater discharge operations were halted. No stormwater was discharged during the month of February.
 - As of February 28, approximately 377,290 gallons of stormwater are stored onsite at the EIY pending transportation and discharge.

Non-Aqueous Phase Liquid (NAPL) Collection System and EIY Concrete Cap Inspections

The NAPL Collection System was installed in the EIY in January 2019 to address the tar-like NAPL 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 area and EIY concrete cap outside the collection system for February 2025 (select photographs from the weekly inspections are provided in Attachment A):

NAPL Collection System Area

The NAPL Collection System Sump 1 (B099/B100 stalls), Sump 2 (B103/B104 stalls), and Sump 3 (B107/B108 stalls) have continued to be visually inspected weekly for NAPL. Field personnel also use a hoe to scrape the bottom of the sumps to recover accumulated NAPL, if present, during the weekly inspections. No NAPL was detected or recovered from Sumps 1, 2 and 3 during the February 2025 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. 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 February 2025. Water levels in NAPL Collection System Sump 1, Sump 2, and Sump 3 were measured below the top of the manholes as summarized in the following table:

Date	Sump 1 (DTW, inches)	Sump 2 (DTW, inches)	Sump 3 (DTW, inches)	Photo Nos (Attachment A)
February 5	1.0	8.5	9.0	63, 64, and 65
February 12	0.0	0.0	0.0	66, 67, and 68
February 19	1.0	3.0	2.5	69, 70, and 71
February 26	1.5	5.0	4.5	72, 73, and 74

DTW – depth to water below the top of the manhole.

- During the February 5 inspection the water in Sump 2 was observed to be tan (Photo No. 64). During the February 12 inspection the water was observed to be brown in Sump 2 (Photo No. 67) and tan in Sump 3 (Photo No. 68). Other than these exceptions above, the water in Sump 1, Sump 2, and Sump 3 were observed to be clear in color during the February 2025 inspections. No odors or sheen were reported during the February inspections. Sumps were full of water on February 12th due to rain event.
- NAPL seeps were not observed along the concrete joints along the NAPL Collection System (including Slot B107) during the February 2025 inspections.

Areas Outside NAPL Collection System Inspections

For areas outside the NAPL Collection System, WSP made the following observations during the weekly inspections:

- NAPL seeps were not observed at Track 802 or any areas outside the NAPL Collection System during the weekly inspection events in February 2025. The lack of seep activity noted during the February inspections was the same compared to the January inspections. No NAPL was collected from surface seeps in February.
- The previously observed seeps at stalls A010, A022, B042, B056, B057, B096, B100, B102, B105, and RD-14 have been addressed through the Focused Excavation activities.
- During the February 2025 inspections, no NAPL seeps were observed at the remaining test pits locations that were not excavated as part of the Focused Excavations (stalls A098 (TP-02), B013 (TP (B013)), B057 (TP-04), and B108 (TP (B108) and TP-01).
- During the weekly inspection on February 5, 2025, there was minimal brown staining observed near FE-6 (Photo No. 5). Brown staining was not observed throughout the rest of the February 2025 inspections.

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,

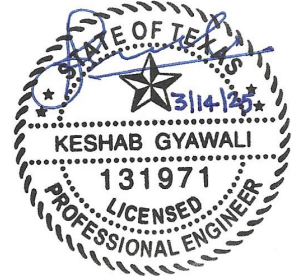
WSP USA Inc.



Manny Higa, GIT
Senior Consultant, Geologist



Keshab Gyawali, P.E.
Lead Consultant, Civil 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

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	
9/30/2020	1	10	9	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
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	
1/12/2022	6	12	12	Not measurable	

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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	
2/1/2023	<1	1	<1	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
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.
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.

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
10/11/2023	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.
3/27/2024	0	7	6	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. Some DNAPL (1.5 inches) was recovered from the bottom of Sump 1.

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
4/3/2024	0	10	10	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. Some DNAPL (3 cubic inches) was recovered from the bottom of Sump 1.
4/10/2024	0	0	0	Not measurable	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 measurable	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 measurable	Sheen visible on B099/B100. Water color brown on B099/B100 and clear on B103/B104 and B107/B108. Pumpdown conducted 4/26/2024.
5/1/2024	9	20	21	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.
5/8/2024	1	23	22	Not measurable	Sheen visible on B099/B100. Water color brown on B099/B100 and light brown on B103/B104 and clear on B107/B108.
5/15/2024	0	20	21	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.
5/22/2024 ¹	--	--	--	--	--
5/29/2024	0	19.5	19	Not measurable	No sheen observed in any of the sumps. Water color brown on B099/B100 and clear on B103/B104 and B107/B108.
6/5/2024	Not measurable	Not measurable	13	Not measurable	Sumps B099/B100 and B103/B104 could not be opened due to ongoing excavation. No sheen observed in any of the sumps. Water color was clear to cloudy by B107/B108.
6/12/2024	0	13	13	Not measurable	No sheen observed in any of the sumps. Water color was brown to cloudy by B099/B100, clear to cloudy by B103/B104, and clear by B107/B108.
6/19/2024	0	13	13	Not measurable	Sheen observed at B099/B100 and B107/B108. Water color was dark brown by B099/B100 and clear by B103/B104 and B107/B108.
6/26/2024	2.5	10.5	10	Not measurable	Sheen observed at B099/B100. Water color was brown to cloudy by B099/B100 and clear by B103/B104 and B107/B108.
7/3/2024	23	43	42	Not measurable	Dark brown water color and sheen observed at B099/B100. Brown water color and no sheen observed at B103/B104. Brown water color and sheen observed at B107/B108.
7/10/2024	13	35	34	Not measurable	Light brown water color and sheen observed at B099/B100. Brown water color and no sheen observed at B103/B104 and B107/B108.
7/17/2024	9	39	38	Not measurable	Light brown water color observed at all three sump systems. Sheen observed at B099/B100, 3 cubic in NAPL recovered from sump. No sheen observed at B103/B104 and B107/B108.
7/24/2024	0	36	36	Not measurable	Light brown water color observed at all three sump systems. Sheen observed at B103/B104. No sheen observed at B099/B100 and B107/B108.
7/31/2024	45	45	45	Not measurable	Brown water color and sheen observed at B099/B100. Light brown water color and no sheen observed at B103/B104 and B107/B108.
8/7/2024	23	32	32	Not measurable	Brown water color and no sheen observed at B099/B100. Brown/cloudy water color and no sheen observed at B103/B104 and B107/B108.
8/14/2024	24	42.5	41.5	Not measurable	Brown water color and sheen observed at B099/B100. Gray water color and no sheen observed at B103/B104. Light brown and no sheen observed at 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
8/21/2024	22.5	42.5	41.5	Not measurable	Brown water color and no sheen observed at B099/B100, B103/104 and at B107/108.
8/28/2024	20	42	41.5	Not measurable	Tan water color and sheen observed at B099/B100. Brown water color and no sheen observed at B103/104. Light brown and no sheen observed at B107/108.
9/4/2024	8	41	40	Not measurable	Tan water color and sheen observed at B099/B100. Tan water color and no sheen observed at B103/B104 and B107/B108.
9/12/2024	5.5	39	38.5	Not measurable	Clear water and sheen observed at B099/B100. Brown water color and no sheen observed at B103/B104 and Tan water color and no sheen observed at B107/B108.
9/18/2024	7	38.5	38	Not measurable	Clear water with sheen observed at B099/B100. Brown water color and no sheen observed at B103/B104. Light brown and no sheen observed at B107/B108.
9/26/2024	9.5	40	39	Not measurable	Clear water color and sheen observed at B099/B100. Grey and turbid water with no sheen observed at B103/B104 and brownish water with no sheen observed at B107/B108.
10/2/2024	11.5	36.5	36	Not measurable	Clear water color and no sheen observed at B099/B100. Tan water color with no sheen observed at B103/B104. Brown water with no sheen observed at B107/B108.
10/9/2024	10	37	36	Not measurable	Clear water color and sheen observed at B099/B100. Clear water color with no sheen observed at B103/B104. Clear water with no sheen observed at B107/B108.
10/16/2024	12	38	36	Not measurable	Clear water color and sheen observed at B099/B100. Clear water color with no sheen observed at B103/B104. Clear water with no sheen observed at B107/B108.
10/24/2024	14	41	40	Not measurable	Light brown water color and sheen observed at B099/B100. Light brown water color with no sheen observed at B103/B104. Brown water with no sheen observed at B107/B108.
10/30/2024	4	37.5	37	Not measurable	Turbid tan water color with no sheen observed at B099/B100. Turbid tan water color with no sheen observed at B103/B104. Clear water with no sheen observed at B107/B108.
11/6/2024	2.5	32	31	Not measurable	Clear water color and sheen observed at B099/B100. Clear water color with no sheen observed at B103/B104. Clear water with no sheen observed at B107/B108.
11/13/2024	5	32.5	32	Not measurable	Clear water color and sheen observed at B099/B100. Clear water color with no sheen observed at B103/B104. Clear water with no sheen observed at B107/B108.
11/20/2024	3.5	34	34	Not measurable	Clear water color and sheen observed at B099/B100. Clear water color with no sheen observed at B103/B104. Clear water with no sheen observed at B107/B108.
11/27/2024	8	34.5	34	Not measurable	Clear water color and sheen observed at B099/B100. Clear water color with no sheen observed at B103/B104. Clear water with no sheen observed at B107/B108.
12/4/2024	10	35	33.5	Not measurable	Clear water color and sheen observed at B099/B100. Clear water color and sheen observed at B103/B104. Clear water with no sheen observed at B107/B108.
12/11/2024	4	26	26	Not measurable	Clear water color and sheen observed at B099/B100. Clear water color with no sheen observed at B103/B104. Clear water with no sheen observed at B107/B108.
12/18/2024	5	23	22	Not measurable	Clear water color and sheen observed at B099/B100. Clear water color with no sheen observed at B103/B104. Clear water with no sheen observed at B107/B108.

TABLE 1
NAPL Measurements - NAPL Collection System - Englewood Intermodal Yard
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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
12/23/2024	4.5	23.5	22.5	Not measurable	Clear water color with no sheen observed at B099/B100. Clear water color with no sheen observed at B103/B104. Clear water with no sheen observed at B107/B108.
12/27/2025	2	12	11.5	Not measurable	Clear water color and sheen observed at B099/B100. Clear water color with no sheen observed at B103/B104. Clear water with no sheen observed at B107/B108.
1/3/2025	4.5	12	12	Not measurable	Clear water color and sheen observed at B099/B100. Clear water color with no sheen observed at B103/B104. Clear water with no sheen observed at B107/B108.
1/8/2025	6	10.5	11	Not measurable	Clear water color and sheen observed at B099/B100. Clear water color with no sheen observed at B103/B104. Clear water with no sheen observed at B107/B108.
1/15/2025	0	0	0	Not measurable	Clear water color with no sheen observed at B099/B100. Clear water color with no sheen observed at B103/B104. Clear water with no sheen observed at B107/B108. Due to extended rain events all sumps were full of water.
1/22/2025	1.5	4	3.5	Not measurable	Clear water color with no sheen observed at B099/B100. Clear water color with no sheen observed at B103/B104. Clear water with no sheen observed at B107/B108.
1/29/2025	0	0	0	Not measurable	Clear water color and sheen observed at B099/B100. Clear water color with no sheen observed at B103/B104. Clear water color and sheen observed at B107/B108. Due to extended rain events all sumps were full of water.
2/5/2025	1	8.5	9	Not measurable	No sheen observed at B099/B100, B103/B104, and B107/B108. Water color tan in B103/B104 and clear in B099/B100 and B107/B108.
2/12/2025	0	0	0	Not measurable	No sheen observed at B099/B100, B103/B104, and B107/B108. Water color clear in B099/B100, brown in B103/B104, and tan in B107/B108. Due to extended rain events all sumps were full of water.
2/19/2025	1	3	2.5	Not measurable	Clear water color with no sheen observed at B099/B100, B103/B104, and B107/B108.
2/26/2025	1.5	5	4.5	Not measurable	Clear water color with no sheen observed at B099/B100, B103/B104, and B107/B108.




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

1. Freeboard not measured on 5/22/2024 due to the ongoing excavations as part of the Interim Measures Work Plan Construction Activities









ATTACHMENT A

Weekly Inspection Photolog




		PHOTOGRAPH LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. US0039040.4227
Photo No. 1	Inspection Date: 2/5/2025	<div> <div> Description: FE-1&3 weekly inspection of asphalt cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing northeast. </div> <div> Lat: 29.784224 Long: -95.321042 </div> </div> <div>  <div> FE 1&3 HWPW 05 Feb 2025, 11:25:12 AM </div> </div>	
Photo No. 2	Inspection Date: 2/5/2025	<div> <div> Description: FE-2 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing north. </div> <div> Lat: 29.784086 Long: -95.320849 </div> </div> <div>  <div> FE 2 HWPW 05 Feb 2025, 11:25:41 AM </div> </div>	

		PHOTOGRAPH LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. US0039040.4227
Photo No. 3	Inspection Date: 2/5/2025	<div> <div> Description: FE-4 weekly inspection of asphalt cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing northeast. </div> <div> Lat: 29.784779 Long: -95.319697 </div> </div> <div>  <div> FE 4 HWPW 05 Feb 2025, 11:27:28 AM </div> </div>	
Photo No. 4	Inspection Date: 2/5/2025	<div> <div> Description: FE-5 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing north. </div> <div> Lat: 29.785243 Long: -95.318728 </div> </div> <div>  <div> FE 5 HWPW 05 Feb 2025, 11:29:43 AM </div> </div>	




		PHOTOGRAPH LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. US0039040.4227
Photo No. 5	Inspection Date: 2/5/2025	<div> <div> Description: FE-6 weekly inspection of asphalt cap. Reconstructed cap in good condition. No NAPL observed at FE location. Minimal brown staining along asphalt crack observed east of FE location. Facing southwest. Lat: 29.785514 Long: -95.318226 </div> <div>  <div> FE 6 <div> HWPW 05 Feb 2025, 11:28:53 AM </div> </div> </div> </div>	
Photo No. 6	Inspection Date: 2/5/2025	<div> <div> Description: FE-7 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing northwest. Lat: 29.784168 Long: -95.320670 </div> <div>  <div> FE 7 <div> HWPW 05 Feb 2025, 11:26:02 AM </div> </div> </div> </div>	




		PHOTOGRAPH LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. US0039040.4227
Photo No. 7	Inspection Date: 2/5/2025	<div> <div> Description: FE-8 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing northwest. </div> <div> Lat: 29.784862 Long: -95.319113 </div> </div> 	
Photo No. 8	Inspection Date: 2/5/2025	<div> <div> Description: FE-9 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing northwest. </div> <div> Lat: 29.785216 Long: -95.318416 </div> </div> 	



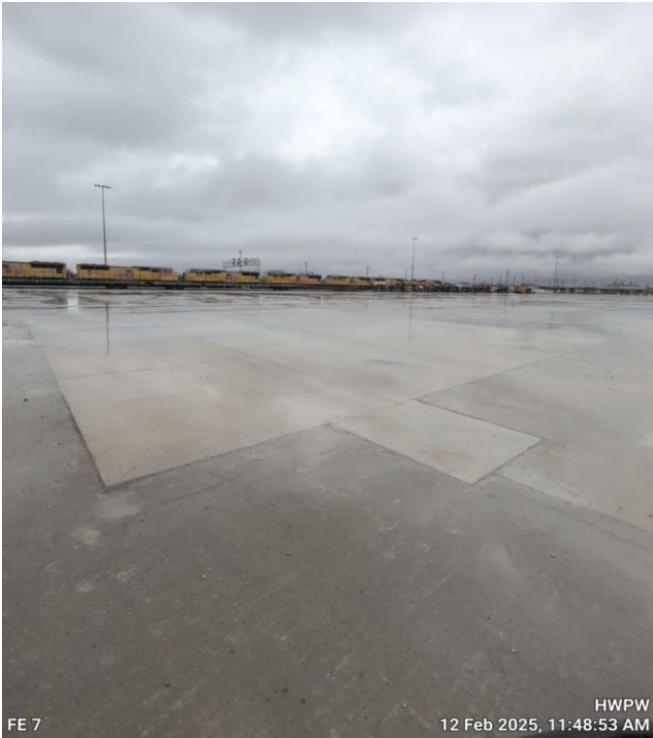
		PHOTOGRAPH LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. US0039040.4227
Photo No. 9	Inspection Date: 2/5/2025	<div> <div> Description: FE-10 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing northeast. </div> <div> Lat: 29.784850 Long: -95.317779 </div> </div>  <div> <div>FE 10</div> <div>HWPW 05 Feb 2025, 11:30:11 AM</div> </div>	
Photo No. 10	Inspection Date: 2/5/2025	<div> <div> Description: FE-11 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing north. </div> <div> Lat: 29.784257 Long: -95.319616 </div> </div>  <div> <div>FE 11</div> <div>HWPW 05 Feb 2025, 11:26:36 AM</div> </div>	


		PHOTOGRAPH LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. US0039040.4227
Photo No. 11	Inspection Date: 2/5/2025	<div> <div> 134°SE (T) • 29.785563, -95.318738 ±5m ▲ -12m </div>  <div> <div>FE 12</div> <div> HWPW 05 Feb 2025, 11:29:18 AM </div> </div> </div>	
Description: FE-12 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing southeast.			
Lat: 29.785563 Long: -95.318738			
Photo No. 12	Inspection Date: 2/5/2025	<div> <div> 162°SE (T) • 29.785096, -95.321254 ±1m ▲ -12m </div>  <div> <div>FE 13</div> <div> HWPW 05 Feb 2025, 11:31:33 AM </div> </div> </div>	
Description: FE-13 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing southeast.			
Lat: 29.785096 Long: -95.321254			




		PHOTOGRAPH LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. US0039040.4227
Photo No. 13	Inspection Date: 2/5/2025	<div> <div> Description: Track 802 weekly inspection of track. Surrounding concrete in good condition. No NAPL observed at location. Lat: 29.784949 Long: -95.321221 </div> <div>  </div> </div>	
Photo No. 14	Inspection Date: 2/5/2025	<div> <div> Description: B107 weekly inspection of joint. Surrounding concrete in good condition. No NAPL observed along joint. Lat: 29.784147 Long: -95.320970 </div> <div>  </div> </div>	




		PHOTOGRAPH LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. US0039040.4227
Photo No. 15	Inspection Date: 2/12/2025	<div> <div> Description: FE-1&3 weekly inspection of asphalt cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing southwest. </div> <div> Lat: 29.784345 Long: -95.320761 </div> </div>  <div> <div>FE 1&3</div> <div>HWPW 12 Feb 2025, 11:52:14 AM</div> </div>	
Photo No. 16	Inspection Date: 2/12/2025	<div> <div> Description: FE-2 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing northwest. </div> <div> Lat: 29.784066 Long: -95.320810 </div> </div>  <div> <div>FE 2</div> <div>HWPW 12 Feb 2025, 11:52:50 AM</div> </div>	




		PHOTOGRAPH LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. US0039040.4227
Photo No. 17	Inspection Date: 2/12/2025	<div> <div> Description: FE-4 weekly inspection of asphalt cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing southwest. </div> <div> Lat: 29.784875 Long: -95.319469 </div> </div>  <div> <div>FE 4</div> <div> HWPW 12 Feb 2025, 11:51:19 AM </div> </div>	
Photo No. 18	Inspection Date: 2/12/2025	<div> <div> Description: FE-5 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing northeast. </div> <div> Lat: 29.785301 Long: -95.318756 </div> </div>  <div> <div>FE 5</div> <div> HWPW 12 Feb 2025, 11:50:36 AM </div> </div>	




		PHOTOGRAPH LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. US0039040.4227
Photo No. 19	Inspection Date: 2/12/2025	<div> <div> ● 288°W (T) ● 29.785414, -95.318246 ±6m ▲ -17m </div>  </div>	
Description: FE-6 weekly inspection of asphalt cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing west.			
Lat: 29.785414 Long: -95.318246			
Photo No. 20	Inspection Date: 2/12/2025	<div>  </div>	
Description: FE-7 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing north.			
Lat: 29.784178 Long: -95.320683			




		PHOTOGRAPH LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	
		Project No. US0039040.4227	
Photo No. 21	Inspection Date: 2/12/2025	<div> <div> Description: FE-8 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing north. </div> <div> Lat: 29.784874 Long: -95.319125 </div> </div>  <div> <div>FE 8</div> <div> HWPW 12 Feb 2025, 11:47:57 AM </div> </div>	
Photo No. 22	Inspection Date: 2/12/2025	<div> <div> Description: FE-9 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing west. </div> <div> Lat: 29.785249 Long: -95.318337 </div> </div>  <div> <div>FE 9</div> <div> HWPW 12 Feb 2025, 11:46:31 AM </div> </div>	




		PHOTOGRAPH LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	
		Project No. US0039040.4227	
Photo No. 23	Inspection Date: 2/12/2025	<div> <div> ☉ 149°SE (T) • 29.784989, -95.317733 ±9m ▲ -17m </div>  <div> FE 10 <div> HWPW 12 Feb 2025, 11:45:41 AM </div> </div> </div>	
Description: FE-10 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing southeast.			
Lat: 29.784989 Long: -95.317733			
Photo No. 24	Inspection Date: 2/12/2025	<div>  <div> FE 11 <div> HWPW 12 Feb 2025, 11:44:28 AM </div> </div> </div>	
Description: FE-11 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing northwest.			
Lat: 29.784306 Long: -95.319542			




		PHOTOGRAPH LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	
		Project No. US0039040.4227	
Photo No. 25	Inspection Date: 2/12/2025	<div> <div> 141°SE (T) • 29.785549, -95.31872 ±5m ▲ -20m </div>  <div> FE 12 <div> HWPW 12 Feb 2025, 11:41:51 AM </div> </div> </div>	
Description: FE-12 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing southeast.			
Lat: 29.785549 Long: -95.318720			
Photo No. 26	Inspection Date: 2/12/2025	<div>  <div> FE 13 <div> HWPW 12 Feb 2025, 11:40:37 AM </div> </div> </div>	
Description: FE-13 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing north.			
Lat: 29.784982 Long: -95.321237			




		PHOTOGRAPH LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	
Project No. US0039040.4227			
Photo No. 27	Inspection Date: 2/12/2025	☉ 165°SE (T) • 29.784941, -95.321219 ±7m ▲ -13m  <div style="display: flex; justify-content: space-between; font-size: small;"> Track 802 HWPW 12 Feb 2025, 11:39:01 AM </div>	
Description: Track 802 weekly inspection of track. Surrounding concrete in good condition. No NAPL observed at location. Lat: 29.784941 Long: -95.321219			
Photo No. 28	Inspection Date: 2/12/2025	☉ 70°NE (T) • 29.784147, -95.320958 ±6m ▲ -16m  <div style="display: flex; justify-content: space-between; font-size: small;"> B 107 HWPW 12 Feb 2025, 11:58:24 AM </div>	
Description: B107 weekly inspection of joint. Surrounding concrete in good condition. No NAPL observed along joint. Lat: 29.784147 Long: -95.320958			




		PHOTOGRAPH LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	
		Project No. US0039040.4227	
Photo No. 29	Inspection Date: 2/12/2025	• 239°SW (T) • 29.784837, -95.319891 ±3m ▲ -12m  <div style="display: flex; justify-content: space-between; font-size: small;"> A 60 through A 70 HWPW 12 Feb 2025, 11:55:58 AM </div>	
Description: A060 - A070 weekly inspection of joint. Surrounding asphalt and concrete in good condition. No brown staining observed along joint. Facing southwest. Lat: 29.784837 Long: -95.319891			
Photo No. 30	Inspection Date: 2/12/2025	 <div style="display: flex; justify-content: space-between; font-size: small;"> A 60 through A 70 HWPW 12 Feb 2025, 11:56:17 AM </div>	
Description: A060 - A070 weekly inspection of joint. Surrounding asphalt and concrete in good condition. No brown staining observed along joint. Facing northeast. Lat: 29.784736 Long: -95.320018			




		PHOTOGRAPH LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. US0039040.4227
Photo No. 31	Inspection Date: 2/19/2025	<div> <div> Description: FE-1&3 weekly inspection of asphalt cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing northeast. </div> <div> Lat: 29.784254 Long: -95.321042 </div> </div> 	
Photo No. 32	Inspection Date: 2/19/2025	<div> <div> Description: FE-2 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing northwest. </div> <div> Lat: 29.784062 Long: -95.320770 </div> </div> 	

		PHOTOGRAPH LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. US0039040.4227
Photo No. 33	Inspection Date: 2/19/2025	<div> <div> Description: FE-4 weekly inspection of asphalt cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing north. </div> <div> Lat: 29.784719 Long: -95.319647 </div> </div> 	
Photo No. 34	Inspection Date: 2/19/2025	<div> <div> Description: FE-5 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing northeast. </div> <div> Lat: 29.785317 Long: -95.318772 </div> </div> 	

		PHOTOGRAPH LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. US0039040.4227
Photo No. 35	Inspection Date: 2/19/2025	<div> <div> Description: FE-6 weekly inspection of asphalt cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing north. </div> <div> Lat: 29.785362 Long: -95.318388 </div> </div> 	
Photo No. 36	Inspection Date: 2/19/2025	<div> <div> Description: FE-7 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing northwest. </div> <div> Lat: 29.784163 Long: -95.320607 </div> </div> 	

		PHOTOGRAPH LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. US0039040.4227
Photo No. 37	Inspection Date: 2/19/2025	<div> <div> Description: FE-8 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing northwest. </div> <div> Lat: 29.784873 Long: -95.319102 </div> </div> 	
Photo No. 38	Inspection Date: 2/19/2025	<div> <div> Description: FE-9 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing northwest. </div> <div> Lat: 29.785222 Long: -95.318375 </div> </div> 	

		PHOTOGRAPH LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. US0039040.4227
Photo No. 39	Inspection Date: 2/19/2025	<div> <div> • 187°S (T) • 29.784923, -95.317642 ±4m ▲ -10m </div>  <div> <div>FE 10</div> <div> <div>HWPW</div> <div>19 Feb 2025, 11:11:43 AM</div> </div> </div> </div>	
Description: FE-10 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing south.			
Lat: 29.784923 Long: -95.317642			
Photo No. 40	Inspection Date: 2/19/2025	 <div> <div>FE 11</div> <div> <div>HWPW</div> <div>19 Feb 2025, 11:12:54 AM</div> </div> </div>	
Description: FE-11 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing northwest.			
Lat: 29.784300 Long: -95.319558			

		PHOTOGRAPH LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. US0039040.4227
Photo No. 41	Inspection Date: 2/19/2025	<div> <div> Description: FE-12 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing north. </div> <div> Lat: 29.785458 Long: -95.318703 </div> </div>  <div> <div>FE 12</div> <div>HWPW 19 Feb 2025, 11:13:40 AM</div> </div>	
Photo No. 42	Inspection Date: 2/19/2025	<div> <div> Description: FE-13 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing northwest. </div> <div> Lat: 29.785085 Long: -95.321257 </div> </div>  <div> <div>FE 13</div> <div>HWPW 19 Feb 2025, 11:14:49 AM</div> </div>	

Client Name:

Site Location:

Project No.

Union Pacific Railroad

Englewood Intermodal Yard, Houston, Texas

US0039040.4227

Photo No.

43

Inspection Date:

2/19/2025

Description:

Track 802 weekly inspection of track. Surrounding concrete in good condition. No NAPL observed at location.

Lat: 29.784939

Long: -95.321211



Photo No.

44

Inspection Date:

2/19/2025




Description:




B107 weekly inspection of joint. Surrounding concrete in good condition. No NAPL observed along joint.



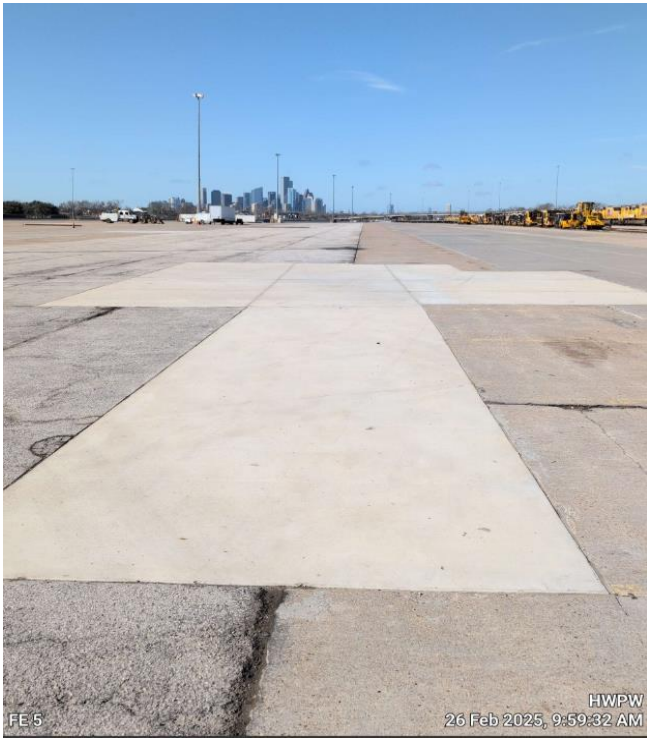
Lat: 29.784143




Long: -95.320950


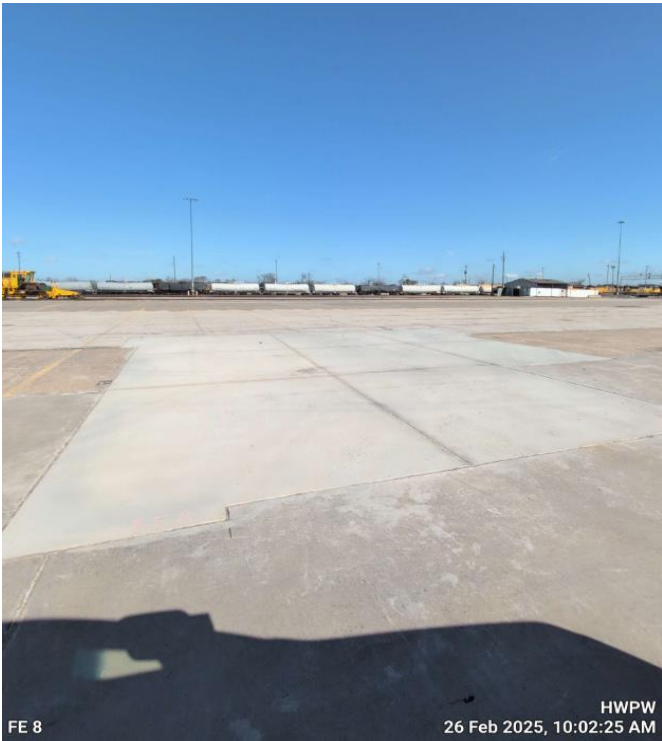
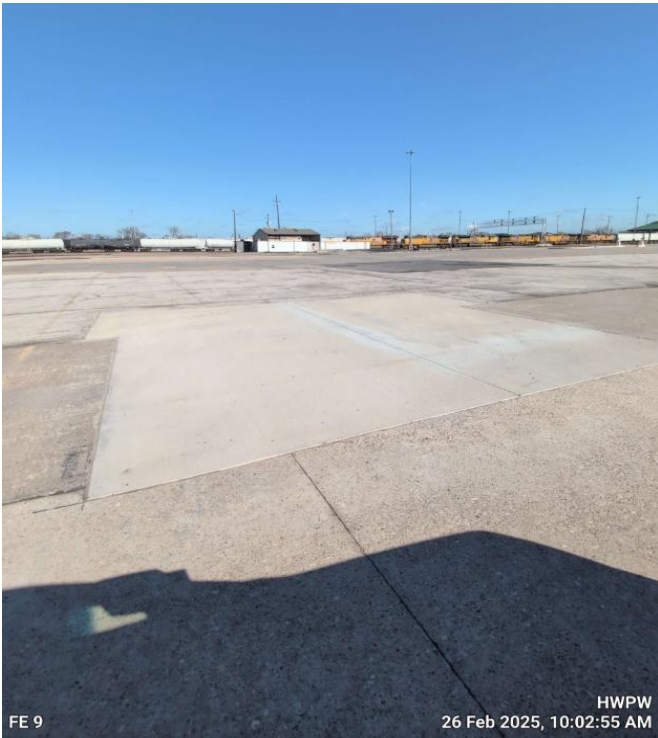


		PHOTOGRAPH LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	
Project No. US0039040.4227			
Photo No. 45	Inspection Date: 2/19/2025	<div> <div> Description: A060 - A070 weekly inspection of joint. Surrounding asphalt and concrete in good condition. No brown staining observed along joint. Facing southwest. Lat: 29.784901 Long: -95.319709 </div> <div>  <p> 242°SW (T) • 29.784901, -95.319709 ±3m ▲ -7m A 60 through A 70 HWPW 19 Feb 2025, 12:01:13 PM </p> </div> </div>	
Photo No. 46	Inspection Date: 2/19/2025	<div> <div> Description: A060 - A070 weekly inspection of joint. Surrounding asphalt and concrete in good condition. No brown staining observed along joint. Facing northeast. Lat: 29.784743 Long: -95.320023 </div> <div>  <p> 64°NE (T) • 29.784743, -95.320023 ±3m ▲ -6m A 60 through A 70 HWPW 19 Feb 2025, 12:01:52 PM </p> </div> </div>	

		PHOTOGRAPH LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. US0039040.4227
Photo No. 47	Inspection Date: 2/26/2025	<div> <div> Description: FE-1&3 weekly inspection of asphalt cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing northeast. </div> <div> Lat: 29.784237 Long: -95.321050 </div> </div> 	
Photo No. 48	Inspection Date: 2/26/2025	<div> <div> Description: FE-2 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing northwest. </div> <div> Lat: 29.784066 Long: -95.320766 </div> </div> 	




		PHOTOGRAPH LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	
		Project No. US0039040.4227	
Photo No. 49	Inspection Date: 2/26/2025	<div> <div> Description: FE-4 weekly inspection of asphalt cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing southwest. </div> <div> Lat: 29.784851 Long: -95.319466 </div> </div> 	
Photo No. 50	Inspection Date: 2/26/2025	<div> <div> Description: FE-5 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing southwest. </div> <div> Lat: 29.785435 Long: -95.318521 </div> </div> 	




		PHOTOGRAPH LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. US0039040.4227
Photo No. 51	Inspection Date: 2/26/2025	<div> <div> Description: FE-6 weekly inspection of asphalt cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing northwest. Lat: 29.785375 Long: -95.318334 </div> <div>  </div> </div> <div> <div>FE 6</div> <div>HWPW 26 Feb 2025, 10:00:05 AM</div> </div>	
Photo No. 52	Inspection Date: 2/26/2025	<div> <div> Description: FE-7 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing northwest. Lat: 29.784178 Long: -95.320636 </div> <div>  </div> </div> <div> <div>FE 7</div> <div>HWPW 26 Feb 2025, 10:01:25 AM</div> </div>	




		PHOTOGRAPH LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. US0039040.4227
Photo No. 53	Inspection Date: 2/26/2025	<div> <div> Description: FE-8 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing northwest. </div> <div> Lat: 29.784859 Long: -95.319098 </div> </div> <div>  <div> FE 8 HWPW 26 Feb 2025, 10:02:25 AM </div> </div>	
Photo No. 54	Inspection Date: 2/26/2025	<div> <div> Description: FE-9 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing northwest. </div> <div> Lat: 29.785211 Long: -95.318409 </div> </div> <div>  <div> FE 9 HWPW 26 Feb 2025, 10:02:55 AM </div> </div>	




		PHOTOGRAPH LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. US0039040.4227
Photo No. 55	Inspection Date: 2/26/2025	<div> <div> Description: FE-10 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing west. </div> <div> Lat: 29.784886 Long: -95.317659 </div> </div> <div>  <div> FE 10 HWPW 26 Feb 2025, 10:04:01 AM </div> </div>	
Photo No. 56	Inspection Date: 2/26/2025	<div> <div> Description: FE-11 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing northwest. </div> <div> Lat: 29.784263 Long: -95.319552 </div> </div> <div>  <div> FE 11 HWPW 26 Feb 2025, 10:05:13 AM </div> </div>	




		PHOTOGRAPH LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. US0039040.4227
Photo No. 57	Inspection Date: 2/26/2025	<div> <div> Description: FE-12 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing northwest. </div> <div> Lat: 29.785453 Long: -95.318679 </div> </div>  <div> <div>FE 12</div> <div>HWPW 26 Feb 2025, 10:06:27 AM</div> </div>	
Photo No. 58	Inspection Date: 2/26/2025	<div> <div> Description: FE-13 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing south. </div> <div> Lat: 29.785100 Long: -95.321224 </div> </div>  <div> <div>FE 13</div> <div>HWPW 26 Feb 2025, 10:07:45 AM</div> </div>	




		PHOTOGRAPH LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. US0039040.4227
Photo No. 61	Inspection Date: 2/26/2025	<div> <div> ○ 237°SW (T) • 29.784899, -95.319693 ±6m ▲ -11m </div>  <div> <small>View through A70</small> <small>HWPW 26 Feb 2025 11:59:31 AM</small> </div> </div>	
Description: A060 - A070 weekly inspection of joint. Surrounding asphalt and concrete in good condition. No brown staining observed along joint. Facing southwest. Lat: 29.784899 Long: -95.319693			
Photo No. 62	Inspection Date: 2/26/2025	<div> <div> ○ 54°NE (T) • 29.784728, -95.320012 ±3m ▲ -11m </div>  <div> <small>View through A70</small> <small>HWPW 26 Feb 2025 12:00:17 PM</small> </div> </div>	
Description: A060 - A070 weekly inspection of joint. Surrounding asphalt and concrete in good condition. No brown staining observed along joint. Facing northeast. Lat: 29.784728 Long: -95.320012			




		PHOTOGRAPH LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. US0039040.4227
Photo No. 63	Inspection Date: 2/5/2025	<div> <div> 335°NW (T) • 29.784271, -95.320788 ±3m ▲ -13m </div>  <div> <div>B 99 / 100</div> <div>HWPW 05 Feb 2025, 12:01:26 PM</div> </div> </div>	
Description: Sump 1 (B99/B100), 1.0 inches of freeboard in sump. Color is clear, and no sheen or odor observed.			
Lat: 29.784271 Long: -95.320788			
Photo No. 64	Inspection Date: 2/5/2025	<div> <div> 305°NW (T) • 29.784217, -95.320905 ±2m ▲ -11m </div>  <div> <div>B103 / 104</div> <div>HWPW 05 Feb 2025, 11:59:08 AM</div> </div> </div>	
Description: Sump 2 (B103/B104), 8.5 inches of freeboard in sump. Color is tan, and no sheen or odor observed.			
Lat: 29.784217 Long: -95.320905			

		PHOTOGRAPH LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. US0039040.4227
Photo No. 65	Inspection Date: 2/5/2025	<div> <div> <p> ⬤ 324°NW (T) • 29.784169, -95.320973 ±3m ▲ -11m </p>  <p> <small>B107 / 108</small> </p> </div> <div> <p> <small>HWPW</small> <small>05 Feb 2025, 11:56:22 AM</small> </p> </div> </div>	
Description: Sump 3 (B107/B108), 9.0 inches of freeboard in sump. Color is clear, and no sheen or odor observed.			
Lat: 29.784169 Long: -95.320973			
Photo No. 66	Inspection Date: 2/12/2025	<div> <div> <p> ⬤ 258°SW (T) • 29.784275, -95.320778 ±3m ▲ -20m </p>  <p> <small>B 99 / 100</small> </p> </div> <div> <p> <small>HWPW</small> <small>12 Feb 2025, 12:41:23 PM</small> </p> </div> </div>	
Description: Sump 1 (B99/B100), 0.0 inches of freeboard in sump. Color is clear, and no sheen or odor observed.			
Lat: 29.784275 Long: -95.320778			

		PHOTOGRAPH LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	
Project No. US0039040.4227			
Photo No. 67	Inspection Date: 2/12/2025	<div> <div> 322°NW (T) • 29.784208, -95.320889 ±4m ▲ -20m </div>  <div> B 103 / 104 </div> <div> HWPW 12 Feb 2025, 12:40:30 PM </div> </div>	
Description: Sump 2 (B103/B104), 0.0 inches of freeboard in sump. Color is brown, and no sheen or odor observed.			
Lat: 29.784208 Long: -95.320889			
Photo No. 68	Inspection Date: 2/12/2025	<div> <div> 276°W (T) • 29.784184, -95.32098 ±7m ▲ -11m </div>  <div> B 107 / 108 </div> <div> HWPW 12 Feb 2025, 12:39:17 PM </div> </div>	
Description: Sump 3 (B107/B108), 0.0 inches of freeboard in sump. Color is tan, and no sheen or odor observed.			
Lat: 29.784184 Long: -95.320980			

		PHOTOGRAPH LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	
Project No. US0039040.4227			
Photo No. 69	Inspection Date: 2/19/2025	<div> <div> 331°NW (T) • 29.78417, -95.32091 ±4m ▲ -9m </div>  <div> B 99 / 100 <div> HWPW 19 Feb 2025, 12:57:58 PM </div> </div> </div>	
Description: Sump 1 (B99/B100), 1.0 inches of freeboard in sump. Color is clear, and no sheen or odor observed.			
Lat: 29.784170 Long: -95.320910			
Photo No. 70	Inspection Date: 2/19/2025	<div> <div> 266°W (T) • 29.784181, -95.32094 ±3m ▲ -13m </div>  <div> B 103 / 104 <div> HWPW 19 Feb 2025, 12:51:45 PM </div> </div> </div>	
Description: Sump 2 (B103/B104), 3.0 inches of freeboard in sump. Color is clear, and no sheen or odor observed.			
Lat: 29.784181 Long: -95.320940			

		PHOTOGRAPH LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	
Project No. US0039040.4227			
Photo No. 71	Inspection Date: 2/19/2025	Coordinates: 243°SW (T) • 29.784161, -95.320965 ±2m ▲ -13m	
Description: Sump 3 (B107/B108), 2.5 inches of freeboard in sump. Color is clear, and no sheen or odor observed.			
Lat: 29.784161 Long: -95.320965			
Photo No. 72	Inspection Date: 2/26/2025	Coordinates: 289°W (T) • 29.78428, -95.320775 ±1m ▲ -10m	
Description: Sump 1 (B99/B100), 1.5 inches of freeboard in sump. Color is clear, and no sheen or odor observed.			
Lat: 29.784280 Long: -95.320775			

		PHOTOGRAPH LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. US0039040.4227
Photo No. 73	Inspection Date: 2/26/2025	<div> <div> ○ 269°W (T) • 29.784203, -95.320883 ±3m ▲ -11m </div>  </div>	
Description: Sump 2 (B103/B104), 5.0 inches of freeboard in sump. Color is clear, and no sheen or odor observed.			
Lat: 29.7841203 Long: -95.320883			
Photo No. 74	Inspection Date: 2/26/2025	<div> <div> ○ 271°W (T) • 29.784171, -95.320984 ±2m ▲ -10m </div>  </div>	
Description: Sump 3 (B107/B108), 4.5 inches of freeboard in sump. Color is clear, and no sheen or odor observed.			
Lat: 29.784171 Long: -95.320984			