



April 15, 2025

Project No. US0039040.4227

**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 March 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 March 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 re-constructed cap areas weekly as part of the on-going EIY concrete cap inspection activities.

### Weekly Focused Excavation Inspections

- Weekly inspections of the 13 completed Focused Excavation areas including the re-constructed cap areas were conducted on March 5, 12, 19, and 26, 2025. Photographs from the weekly inspections are provided in Attachment A under Photo Numbers 1 through 56.
- WSP noted that the reconstructed Focused Excavation concrete and asphalt cap areas were in good condition during the weekly inspections. There were no tar-like material or non-aqueous phase liquid (NAPL) seeps observed at the Focused Excavation areas.
- During the weekly inspection on March 5, WSP observed minimal brown staining in cracks and joints of the asphalt immediately adjacent to the reconstructed concrete cap for FE-5 (Photo No. 4). During the March 12 inspection, WSP noted that a small amount standing water (brown water) was observed within the same cracks and joints of the asphalt immediately adjacent to the reconstructed concrete cap (Photo Nos. 16 and 17). The small amount of standing water at the cracks and joints was observed with additional brown staining, particularly the southern and southeastern corners of the reconstructed cap during the remaining March inspections (Photo Nos. 29, 30, 31, 32, 45, and 46).
- During the weekly inspections on March 5 and March 12, WSP observed minimal brown staining along the edges of the reconstructed asphalt cap at FE-6 (Photo Nos. 5 and 18). On March 19, minor brown water staining was observed at the northwestern corner of the asphalt cap (Photo No. 34). By March 26, other minor brown water stains were observed along the edges of FE-6 and along an asphalt joint which intersects the southern edge of FE-6 (Photo Nos. 47 through 49).
- No other brown water staining was observed near the FEs. Brown water staining was routinely observed during the Spring months in the asphalt pavement area surrounding FE-5 and FE-6 prior to the Focused Excavation activities.

### Revised IWMP Waste Management and Disposal

- Soils/Miscellaneous
  - No soil/miscellaneous waste related to IMWP on site.
- Stormwater
  - A Temporary Discharge Authorization (TDA) was granted by the City of Houston (COH) Public Works on January 17, 2025, authorizing UPRR to discharge approximately 400,000 gallons of stormwater generated during the Focused Excavation activities into the City's POTW through the permitted water treatment plant located at the UPRR Settegast Yard (Industrial Wastewater Treatment Plant (IWTP)).
  - From January 27 to February 3, UPRR remediation contractor E3 discharged approximately 55,700 gallons of stormwater through the Settegast IWTP. Discharge activities were halted by UPRR on February 3, 2025.
  - On March 25, UPRR resumed discharge operations at the Settegast IWTP. On March 26, E3 resumed discharge of the containerized stormwater into the Settegast IWTP and discharged approximately 17,000 gallons of stormwater. However, discharge activities were halted on March 27 due to rain events.
  - As of March 31, approximately 327,300 gallons of stormwater remain stored onsite at the EIY pending transportation and discharge to the Settegast IWTP. A total of 72,700 gallons of stormwater has been discharged so far.

## 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 March 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 shovel 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 March 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). Storm water that infiltrates through the cracks in the concrete pavement and nearby railroad ballast tends to collect in the NAPL Collection System. 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)
March 5	1.8	4.8	3.5	57, 58, and 59
March 12	2.3	11.0	10.0	60, 61, and 62
March 19	1.5	9.0	10.0	63, 64, and 65
March 26	2.0	7.0	6.5	66, 67, and 68

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

- During the March 5 and 12 inspections, the water in Sump 1 was observed to be tan (Photo Nos. 57 and 60). During all the March inspections, the water in Sump 2 was observed to be tan (Photo Nos. 58, 61, 64, and 67). Other than these instances above, the water in Sump 1 and Sump 3 were observed to be clear in color during the March 2025 inspections. No odors or sheen were reported during the March inspections.
- NAPL seeps were not observed along the concrete joints near the NAPL Collection System (including Stall B107) during the March 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 March 2025 (Photo Nos. 69 through 76). The lack of seep activity noted during the March inspections was the same compared to the February inspections. No NAPL was collected from surface

seeps in March. In comparison prior to implementing the Focused Excavations, 0.11 gallons of NAPL were collected from the surface seeps during March 2024.

- The previously observed seeps at stalls B100/B101/B105 (FE-1&3), B102 (FE-2), B056/B057 (FE-4), A021/A022 (FE-5), A010/A011 (FE-6), B096 (FE-7), B042 (FE-8), B016 (FE-9), and RD-14 (FE-13) have been addressed through the Focused Excavation activities.
- During the March 2025 inspections, no NAPL seeps were observed at the remaining test pit 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).
- In addition to the brown water staining and water observed near the Focused Excavations discussed previously, WSP also observed minimal brown water staining along the asphalt joints running between stalls A060 and A070 during the weekly inspection on March 5 (Photo No. 77). During the following inspection on March 12, WSP noted that the brown water staining had darkened along the joints between A060 and A070 (Photo No. 78 and 79). By March 19, the brown water staining extended along the joint between stalls A050 and A070 (Photo No. 80), and WSP observed additional brown water staining along the asphalt joint running between stalls B017 through B038 (Photo Nos. 81 and 82). During the next inspection on March 26, the brown water stains appeared darker between stalls A050 and A070 and between stalls B014 and B038 (Photo Nos. 83 through 85), and WSP noted a small pool of brown water directly south of FE-5 (Photo No. 86). UPRR remediation contractor E3 will be mobilized to the site in early April to pressure wash areas of brown water staining and to collect any water generated during pressure washing or from the brown water seeps to be properly disposed.

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	

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

Measured Date	Sump 1 (B099/B100) Freeboard (in)	Sump 2 (B103/B104) Freeboard (in)	Sump 3 (B107/B108) Freeboard (in)	Depth to DNAPL (in)	Comments
2/1/2023	<1	1	<1	Not measurable	
2/8/2023	5	13	12	Not measurable	
2/15/2023	<1	2	2.5	Not measurable	Sumps B099/B100, B103/B104, and B107/B108 pumped down during inspection
2/22/2023	32	42	43	Not measurable	Sheen visible in B099/B100, B103/B104, and B107/B108 sumps; water in B099/B100 noted as brown color with high turbidity
3/1/2023	9	41	40	Not measurable	Sheen visible in B099/B100, B103/B104, and B107/B108 sumps, water color in sumps noted as brown
3/8/2023	5	42	41	Not measurable	B099/B100 & B103/B104 light brown color
3/15/2023	4	42	41	Not measurable	B099/B100 and B013/B104 brown color; B107/B108 very light brown color
3/22/2023	8	26.5	25.5	Not measurable	B099/B100 light brown color
3/29/2023	3	24	25	Not measurable	B099/B100 light brown color
4/5/2023	2.5	25	25	Not measurable	B099/B100 light brown color
4/12/2023	4	12	14	Not measurable	All three sumps pumped down during inspection, B099/B100 brown color
4/19/2023	5	42	42	Not measurable	Sheen visible in B107/B108 sump
4/26/2023	4	31.5	31.5	Not measurable	Sheen visible in B107/B108 sump
5/3/2023	3	18	17.5	Not measurable	
5/10/2023	0	1.5	0	Not measurable	Sheen visible in B107/B108 sump
5/17/2023	0	2	0	Not measurable	Sheen visible in B107/B108 sump
5/24/2023	2	14	13	Not measurable	Pumpdown and boom swap.
5/31/2023	28	50	49	Not measurable	B099/B100 water color brown. B103/B104 and B107/B108 water color light brown.
6/7/2023	3	38	37	Not measurable	Sheen visible in all Sumps. B099/B0100 water color brown and, light brown on both B103/B104 and B107/B108.
6/14/2023	4	38	37	Not measurable	Sheen Visible in B099/B100 & B107/B108. water color brown on B099/B100 & light brown in all other sumps.
6/21/2023	3	36	37	Not measurable	Sheen Visible in B107/B108. water color brown on B099/B100 & light brown in all other sumps.
6/28/2023	3	31	31	Not measurable	Sheen Visible in B099/B100 & B107/B108. water color dark brown on B099/B100 & B107/B108, light brown in B103/B104.
7/12/2023	3	20	19	Not measurable	Sheen Visible in B099/B100 and B107/B108. Water color brown on B099/B100, light brown in B103/B104.
7/19/2023	3	19	19	Not measurable	Sheen Visible on B099/B100 and B107/B108. Water color brown on B099/B100 and clear on B103/B104 and B107/B108.
7/26/2023	3	21	20	Not measurable	Sheen Visible on B099/B100 and B107/B108. Water color brown on B099/B100, light brown on B103/B104, and clear on B107/B108.
8/2/2023	0	16.5	15.5	Not measurable	Sheen Visible on B107/B108. Water color dark brown on B099/B100, light brown on B103/B104, and clear on B107/B108. 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 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.
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 <sup>1</sup>	--	--	--	--	--
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.

**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
8/14/2024	24	42.5	41.5	Not measurable	Brown water color and sheen observed at B099/B100. Gray water color and no sheen observed at B103/104. Light brown and no sheen observed at B107/108.
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.

**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
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.
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	9	8.5	1	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.
3/5/2025	1.8	4.8	3.5	Not measurable	No sheen observed at B099/B100, B103/B104, and B107/B108. Water color tan in B099/B100 and B103/B104 and clear in B107/B108.
3/12/2025	2.3	11	10	Not measurable	No sheen observed at B099/B100, B103/B104, and B107/B108. Water color tan in B099/B100 and B103/B104 and clear in B107/B108.
3/19/2025	1.5	9	10	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.
3/26/2025	2	7	6.5	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.


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




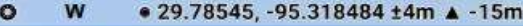

- Freeboard not measured on 5/22/2024 due to the ongoing excavations as part of the Interim Measures Work Plan Construction Activities






**ATTACHMENT A**






## Weekly Inspection Photolog



		<b>PHOTOGRAPH LOG</b>	
<b>Client Name:</b> <b>Union Pacific Railroad</b>		<b>Site Location:</b> Englewood Intermodal Yard, Houston, Texas	<b>Project No.</b> US0039040.4227
<b>Photo No.</b> <b>1</b>	<b>Inspection Date:</b> 3/5/2025	<div> <div> NE • 29.784251, -95.321048 ±3m ▲ -10m </div>  <div> FE 1&amp;3 HWPW 05 Mar 2025, 11:13:53 AM </div> </div>	
<b>Description:</b> FE-1&3 weekly inspection of asphalt cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing northeast.			
Lat: 29.784251 Long: -95.321048			
<b>Photo No.</b> <b>2</b>	<b>Inspection Date:</b> 3/5/2025	<div> <div> NW • 29.784117, -95.320726 ±2m ▲ -12m </div>  <div> FE 2 HWPW 05 Mar 2025, 11:15:22 AM </div> </div>	
<b>Description:</b> FE-2 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing northwest.			
Lat: 29.784117 Long: -95.320726			








		<b>PHOTOGRAPH LOG</b>	
<b>Client Name:</b> <b>Union Pacific Railroad</b>		<b>Site Location:</b> Englewood Intermodal Yard, Houston, Texas	<b>Project No.</b> US0039040.4227
<b>Photo No.</b> <b>3</b>	<b>Inspection Date:</b> 3/5/2025	<div>   <div> <small>FE4</small> <small>HWPW</small>  <small>05 Mar 2025, 11:17:49 AM</small> </div> </div>	
<b>Description:</b> FE-4 weekly inspection of asphalt cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing northeast.			
Lat: 29.784810 Long: -95.319674			
<b>Photo No.</b> <b>4</b>	<b>Inspection Date:</b> 3/5/2025	<div>   <div> <small>FE5</small> <small>HWPW</small>  <small>05 Mar 2025, 11:13:25 AM</small> </div> </div>	
<b>Description:</b> FE-5 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Minimal brown water staining along asphalt joint outside of the FE and southeastern corner observed. Facing west.			
Lat: 29.785450 Long: -95.318484			




		<b>PHOTOGRAPH LOG</b>	
<b>Client Name:</b> <b>Union Pacific Railroad</b>		<b>Site Location:</b> Englewood Intermodal Yard, Houston, Texas	<b>Project No.</b> US0039040.4227
<b>Photo No.</b> <b>5</b>	<b>Inspection Date:</b> 3/5/2025	<div> <div> NW 29.785403, -95.318282 ±4m ▲ -16m </div>  <div> FE 6 05 Mar 2025, 11:21:32 AM HWPW </div> </div>	
<b>Description:</b> FE-6 weekly inspection of asphalt cap. Reconstructed cap in good condition. No NAPL observed at FE location. Minimal brown water staining along the edges of the FE cap observed (red circles). Facing northwest.  Lat: 29.785403 Long: -95.318282			
<b>Photo No.</b> <b>6</b>	<b>Inspection Date:</b> 3/5/2025	<div> <div> NW 29.78417, -95.320605 ±1m ▲ -15m </div>  <div> FE 7 05 Mar 2025, 11:24:02 AM HWPW </div> </div>	
<b>Description:</b> FE-7 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing northwest.  Lat: 29.784170 Long: -95.320605			






		<b>PHOTOGRAPH LOG</b>	
<b>Client Name:</b> <b>Union Pacific Railroad</b>		<b>Site Location:</b> Englewood Intermodal Yard, Houston, Texas	<b>Project No.</b> US0039040.4227
<b>Photo No.</b> <b>7</b>	<b>Inspection Date:</b> 3/5/2025	<div>   <div>             FE 8             <span style="float: right;">HWPW 05 Mar 2025, 11:26:27 AM</span> </div> </div>	
<b>Description:</b> FE-8 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing north.			
Lat: 29.784888 Long: -95.319097			
<b>Photo No.</b> <b>8</b>	<b>Inspection Date:</b> 3/5/2025	<div>   <div>             FE 9             <span style="float: right;">HWPW 05 Mar 2025, 11:28:44 AM</span> </div> </div>	
<b>Description:</b> FE-9 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing northwest.			
Lat: 29.785224 Long: -95.318368			



wsp		PHOTOGRAPH LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. US0039040.4227
Photo No. 9	Inspection Date: 3/5/2025	 <p>W • 29.784942, -95.317646 ±2m ▲ -12m</p> <p>FE-10</p> <p>HWPW 05 Mar 2025, 11:21:38 AM</p>	
<b>Description:</b> FE-10 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing west.			
Lat: 29.784942 Long: -95.317646			
Photo No. 10	Inspection Date: 3/5/2025	 <p>NW • 29.784349, -95.319565 ±10m ▲ -13m</p> <p>FE-11</p> <p>HWPW 05 Mar 2025, 11:38:34 AM</p>	
<b>Description:</b> FE-11 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing northwest.			
Lat: 29.784349 Long: -95.319565			




		<b>PHOTOGRAPH LOG</b>	
<b>Client Name:</b> <b>Union Pacific Railroad</b>		<b>Site Location:</b> Englewood Intermodal Yard, Houston, Texas	<b>Project No.</b> US0039040.4227
<b>Photo No.</b> <b>11</b>	<b>Inspection Date:</b> 3/5/2025	<div>   <span>• 29.785562, -95.318737 ±29m ▲ -11m</span> </div>  <div> <span>FE 12</span> <span>HWPW 05 Mar 2025, 11:36:29 AM</span> </div>	
<b>Description:</b> FE-12 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing south.		Lat: 29.785562 Long: -95.318737	
<b>Photo No.</b> <b>12</b>	<b>Inspection Date:</b> 3/5/2025	<div>   <span>NE • 29.785013, -95.321298 ±1m ▲ -11m</span> </div>  <div> <span>FE 13</span> <span>HWPW 05 Mar 2025, 11:38:17 AM</span> </div>	
<b>Description:</b> FE-13 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing northeast.		Lat: 29.785013 Long: -95.321298	

		<b>PHOTOGRAPH LOG</b>	
<b>Client Name:</b> <b>Union Pacific Railroad</b>		<b>Site Location:</b> Englewood Intermodal Yard, Houston, Texas	<b>Project No.</b> US0039040.4227
<b>Photo No.</b> <b>13</b>	<b>Inspection Date:</b> 3/12/2025	<div> <div> 78°NE (T) • 29.784273, -95.32104 ±5m ▲ -12m </div>  <div> FE1&amp;3 <div>HWPW 12 Mar 2025 1:12:03 PM</div> </div> </div>	
<b>Description:</b> FE-1&3 weekly inspection of asphalt cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing northeast.			
Lat: 29.784273 Long: -95.321040			
<b>Photo No.</b> <b>14</b>	<b>Inspection Date:</b> 3/12/2025	<div> <div> 312°NW (T) • 29.784082, -95.32076 ±4m ▲ -12m </div>  <div> FE2 <div>HWPW 12 Mar 2025 1:12:31 PM</div> </div> </div>	
<b>Description:</b> FE-2 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing northwest.			
Lat: 29.784082 Long: -95.320760			






		<b>PHOTOGRAPH LOG</b>	
<b>Client Name:</b> <b>Union Pacific Railroad</b>		<b>Site Location:</b> Englewood Intermodal Yard, Houston, Texas	<b>Project No.</b> US0039040.4227
<b>Photo No.</b> <b>15</b>	<b>Inspection Date:</b> 3/12/2025	<div> <div>         63°NE (T) • 29.784803, -95.319682 ±4m ▲ -12m       </div>  <div>         FE 4          HWPW          12 Mar 2025, 1:12:08 PM       </div> </div>	
<b>Description:</b> FE-4 weekly inspection of asphalt cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing northeast.			
Lat: 29.784803 Long: -95.319682			
<b>Photo No.</b> <b>16</b>	<b>Inspection Date:</b> 3/12/2025	<div> <div>         262°W (T) • 29.785434, -95.318496 ±4m ▲ -13m       </div>  <div>         FE 5          HWPW          12 Mar 2025, 1:13:51 PM       </div> </div>	
<b>Description:</b> FE-5 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Brown water staining at asphalt joint and at the southeastern corner adjacent to FE-5 observed. Facing west.			
Lat: 29.785434 Long: -95.318496			




wsp		PHOTOGRAPH LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. US0039040.4227
Photo No. 17	Inspection Date: 3/12/2025	<p>☉ 293°W (T) • 29.785372, -95.318601 ±4m ▲ -13m</p>  <p>Seepage at FE 5</p> <p>HWPW 12 Mar 2025 1:25:43 PM</p>	
<p><b>Description:</b> FE-5 brown water staining observed where the asphalt joint meets the reconstructed concrete cap, located within the red circle on Photo 16.</p> <p>Lat: 29.785372 Long: -95.318601</p>			
Photo No. 18	Inspection Date: 3/12/2025	<p>☉ 320°NW (T) • 29.785411, -95.318294 ±4m ▲ -13m</p>  <p>FE 6</p> <p>HWPW 12 Mar 2025 1:14:29 PM</p>	
<p><b>Description:</b> FE-6 weekly inspection of asphalt cap. Reconstructed cap in good condition. No NAPL observed at FE location. Minimal brown water staining along the edges of the FE cap observed. Facing northwest.</p> <p>Lat: 29.785411 Long: -95.318294</p>			




		<b>PHOTOGRAPH LOG</b>	
<b>Client Name:</b> <b>Union Pacific Railroad</b>		<b>Site Location:</b> Englewood Intermodal Yard, Houston, Texas	<b>Project No.</b> US0039040.4227
<b>Photo No.</b> <b>19</b>	<b>Inspection Date:</b> 3/12/2025	<div> <div> <b>333°NW (T) • 29.784205, -95.320604 ±5m ▲ -12m</b> </div>  <div> <div>FE 7</div> <div>           HWPW            12 Mar 2025 1:16:16 PM         </div> </div> </div>	
<b>Description:</b> FE-7 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing northwest.  Lat: 29.784205 Long: -95.320604			
<b>Photo No.</b> <b>20</b>	<b>Inspection Date:</b> 3/12/2025	<div> <div> <b>349°N (T) • 29.784903, -95.319097 ±5m ▲ -13m</b> </div>  <div> <div>FE 8</div> <div>           HWPW            12 Mar 2025 1:15:47 PM         </div> </div> </div>	
<b>Description:</b> FE-8 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing north.  Lat: 29.784903 Long: -95.319097			






		<b>PHOTOGRAPH LOG</b>	
<b>Client Name:</b> <b>Union Pacific Railroad</b>		<b>Site Location:</b> Englewood Intermodal Yard, Houston, Texas	<b>Project No.</b> US0039040.4227
<b>Photo No.</b> <b>21</b>	<b>Inspection Date:</b> 3/12/2025	<div> <div> <b>318°NW (T) • 29.785228, -95.318363 ±7m ▲ -13m</b> </div>  <div> <b>FE 9</b> </div> <div> <b>HWPW</b>          12 Mar 2025, 1:16:27 PM       </div> </div>	
<b>Description:</b> FE-9 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing northwest.		Lat: 29.785228 Long: -95.318363	
<b>Photo No.</b> <b>22</b>	<b>Inspection Date:</b> 3/12/2025	<div> <div> <b>270°W (T) • 29.784967, -95.317647 ±5m ▲ -13m</b> </div>  <div> <b>FE 10</b> </div> <div> <b>HWPW</b>          12 Mar 2025, 1:17:19 PM       </div> </div>	
<b>Description:</b> FE-10 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing west.		Lat: 29.784967 Long: -95.317647	









		<b>PHOTOGRAPH LOG</b>	
<b>Client Name:</b> <b>Union Pacific Railroad</b>		<b>Site Location:</b> Englewood Intermodal Yard, Houston, Texas	
		<b>Project No.</b> US0039040.4227	
<b>Photo No.</b> <b>23</b>	<b>Inspection Date:</b> 3/12/2025	<div> <div> 327°NW (T) • 29.784316, -95.319544 ±6m ▲ -12m </div>  <div> FE 11 <div> HWPW 12 Mar 2025, 1:18:12 PM </div> </div> </div>	
<b>Description:</b> FE-11 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing northwest.			
Lat: 29.784316 Long: -95.319544			
<b>Photo No.</b> <b>24</b>	<b>Inspection Date:</b> 3/12/2025	<div> <div> 173°S (T) • 29.785581, -95.318732 ±3m ▲ -12m </div>  <div> FE 12 <div> HWPW 12 Mar 2025, 1:18:56 PM </div> </div> </div>	
<b>Description:</b> FE-12 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing south.			
Lat: 29.785581 Long: -95.318732			

		<b>PHOTOGRAPH LOG</b>	
<b>Client Name:</b> <b>Union Pacific Railroad</b>		<b>Site Location:</b> Englewood Intermodal Yard, Houston, Texas	<b>Project No.</b> US0039040.4227
<b>Photo No.</b> <b>25</b>	<b>Inspection Date:</b> 3/12/2025	<div> <div> 39°NE (T) • 29.785032, -95.32129 ±9m ▲ -13m </div>  <div> FE 13 <div> HWPW  12 Mar 2025, 1:19:58 PM </div> </div> </div>	
<b>Description:</b> FE-13 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing northeast.			
Lat: 29.785032 Long: -95.321290			
<b>Photo No.</b> <b>26</b>	<b>Inspection Date:</b> 3/19/2025	<div> <div> NE • 29.784282, -95.321069 ±12m ▲ -12m </div>  <div> FE 1&amp;3 <div> HWPW  19 Mar 2025, 10:48:49 AM </div> </div> </div>	
<b>Description:</b> FE-1&3 weekly inspection of asphalt cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing northeast.			
Lat: 29.784282 Long: -95.321069			




		<b>PHOTOGRAPH LOG</b>	
<b>Client Name:</b> <b>Union Pacific Railroad</b>		<b>Site Location:</b> Englewood Intermodal Yard, Houston, Texas	
<b>Project No.</b> US0039040.4227			
<b>Photo No.</b> <b>27</b>	<b>Inspection Date:</b> 3/19/2025	<div> <div> <b>313°NW (T) • 29.784112, -95.320753 ±3m ▲ -14m</b> </div>  <div> <div>FE 2</div> <div> HWPW  19 Mar 2025, 10:49:36 AM </div> </div> </div>	
<b>Description:</b> FE-2 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing northwest.  Lat: 29.784112 Long: -95.320753			
<b>Photo No.</b> <b>28</b>	<b>Inspection Date:</b> 3/19/2025	<div> <div> <b>47°NE (T) • 29.784812, -95.319724 ±6m ▲ -13m</b> </div>  <div> <div>FE 4</div> <div> HWPW  19 Mar 2025, 10:50:36 AM </div> </div> </div>	
<b>Description:</b> FE-4 weekly inspection of asphalt cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing northeast.  Lat: 29.784812 Long: -95.319724			









		<b>PHOTOGRAPH LOG</b>	
<b>Client Name:</b> <b>Union Pacific Railroad</b>		<b>Site Location:</b> Englewood Intermodal Yard, Houston, Texas	<b>Project No.</b> US0039040.4227
<b>Photo No.</b> <b>29</b>	<b>Inspection Date:</b> 3/19/2025	<div> <div> <b>261°W (T) • 29.785458, -95.318533 ±3m ▲ -14m</b> </div>  <div> <b>FE 5</b> </div> <div> <b>HWPW</b>  <b>19 Mar 2025, 10:51:15 AM</b> </div> </div>	
<b>Description:</b> FE-5 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Brown water staining at asphalt joint, southern corner and southeastern corner adjacent to FE-5 observed. Facing west.  Lat: 29.785458 Long: -95.318533			
<b>Photo No.</b> <b>30</b>	<b>Inspection Date:</b> 3/19/2025	<div> <div> <b>226°SW (T) • 29.785372, -95.31863 ±7m ▲ -12m</b> </div>  <div> <b>FE 5 water seep</b> </div> <div> <b>HWPW</b>  <b>19 Mar 2025, 11:11:03 AM</b> </div> </div>	
<b>Description:</b> FE-5 brown water staining observed where the asphalt joint meets the reconstructed FE-5 concrete cap, located within the red circle on Photo 29.  Lat: 29.785372 Long: -95.318630			

		<b>PHOTOGRAPH LOG</b>	
<b>Client Name:</b> <b>Union Pacific Railroad</b>		<b>Site Location:</b> Englewood Intermodal Yard, Houston, Texas	<b>Project No.</b> US0039040.4227
<b>Photo No.</b> <b>31</b>	<b>Inspection Date:</b> 3/19/2025	<div> <div> <b>248°SW (T) • 29.785422, -95.318541 ±5m ▲ -12m</b> </div>  <div> <b>FE 5 staining</b> </div> <div> <b>HWPW</b>  <b>19 Mar 2025 11:10:19 AM</b> </div> </div>	
<b>Description:</b> FE-5 brown water staining observed at the southeastern corner of the FE reconstructed cap, located within the yellow circle on Photo 29.			
Lat: 29.785422 Long: -95.318541			
<b>Photo No.</b> <b>32</b>	<b>Inspection Date:</b> 3/19/2025	<div> <div> <b>171°S (T) • 29.78536, -95.318628 ±2m ▲ -11m</b> </div>  <div> <b>FE 5 water seep</b> </div> <div> <b>HWPW</b>  <b>19 Mar 2025 11:11:10 AM</b> </div> </div>	
<b>Description:</b> FE-5 brown water staining observed at the southern corner of the FE reconstructed cap, located within the blue circle on Photo 29.			
Lat: 29.785360 Long: -95.318628			









		<b>PHOTOGRAPH LOG</b>	
<b>Client Name:</b> <b>Union Pacific Railroad</b>		<b>Site Location:</b> Englewood Intermodal Yard, Houston, Texas	
<b>Project No.</b> US0039040.4227			
<b>Photo No.</b> <b>33</b>	<b>Inspection Date:</b> 3/19/2025	<div> <div> NW 29.785412, -95.318332 ±5m ▲ -12m </div>  <div> FE 6 HWPW 19 Mar 2025, 10:51:48 AM </div> </div>	
<b>Description:</b> FE-6 weekly inspection of asphalt cap. Reconstructed cap in good condition. No NAPL observed at FE location. Brown water staining along the edges of the FE cap observed. Facing northwest.  Lat: 29.785412 Long: -95.318332			
<b>Photo No.</b> <b>34</b>	<b>Inspection Date:</b> 3/19/2025	<div> <div> 342°NW (T) • 29.785497, -95.318462 ±3m ▲ -11m </div>  <div> N/W area of FE 6 HWPW 19 Mar 2025, 11:09:29 AM </div> </div>	
<b>Description:</b> FE-6 brown water staining observed at the edges of the northwestern corner of the asphalt cap, located within the red circle on Photo 33.  Lat: 29.785497 Long: -95.318462			




		<b>PHOTOGRAPH LOG</b>	
<b>Client Name:</b> <b>Union Pacific Railroad</b>		<b>Site Location:</b> Englewood Intermodal Yard, Houston, Texas	<b>Project No.</b> US0039040.4227
<b>Photo No.</b> <b>35</b>	<b>Inspection Date:</b> 3/19/2025	<div> <div> <b>323°NW (T) • 29.784203, -95.320651 ±6m ▲ -12m</b> </div>  <div> <b>FE 7</b> </div> <div> <b>HWPW</b>  <b>19 Mar 2025, 10:52:59 AM</b> </div> </div>	
<b>Description:</b> FE-7 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing northwest.			
Lat: 29.784203 Long: -95.320651			
<b>Photo No.</b> <b>36</b>	<b>Inspection Date:</b> 3/19/2025	<div> <div> <b>1°N (T) • 29.784907, -95.319133 ±3m ▲ -13m</b> </div>  <div> <b>FE 8</b> </div> <div> <b>HWPW</b>  <b>19 Mar 2025, 10:53:42 AM</b> </div> </div>	
<b>Description:</b> FE-8 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing north.			
Lat: 29.784907 Long: -95.319133			

		<b>PHOTOGRAPH LOG</b>	
<b>Client Name:</b> <b>Union Pacific Railroad</b>		<b>Site Location:</b> Englewood Intermodal Yard, Houston, Texas	<b>Project No.</b> US0039040.4227
<b>Photo No.</b> <b>37</b>	<b>Inspection Date:</b> 3/19/2025	<div> <div> <b>☉ 325°NW (T) • 29.785234, -95.318407 ±6m ▲ -12m</b> </div>  <div> <b>FE 9</b> <span style="float: right;"><b>HWPW</b> 19 Mar 2025, 10:54:08 AM</span> </div> </div>	
<b>Description:</b> FE-9 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing northwest.			
Lat: 29.785234 Long: -95.318407			
<b>Photo No.</b> <b>38</b>	<b>Inspection Date:</b> 3/19/2025	<div> <div> <b>W 29.784982, -95.317687 ±6m ▲ -13m</b> </div>  <div> <b>FE 10</b> <span style="float: right;"><b>HWPW</b> 19 Mar 2025, 10:55:04 AM</span> </div> </div>	
<b>Description:</b> FE-10 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing west.			
Lat: 29.784982 Long: -95.317687			









		<b>PHOTOGRAPH LOG</b>	
<b>Client Name:</b> <b>Union Pacific Railroad</b>		<b>Site Location:</b> Englewood Intermodal Yard, Houston, Texas	<b>Project No.</b> US0039040.4227
<b>Photo No.</b> <b>39</b>	<b>Inspection Date:</b> 3/19/2025	<div> <div> <b>322°NW (T) • 29.784333, -95.31957 ±4m ▲ -14m</b> </div>  <div> <b>FE 11</b> <span style="float: right;">HWPW 19 Mar 2025, 10:55:51 AM</span> </div> </div>	
<b>Description:</b> FE-11 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing northwest.		Lat: 29.784333 Long: -95.319570	
<b>Photo No.</b> <b>40</b>	<b>Inspection Date:</b> 3/19/2025	<div> <div> <b>S 29.785592, -95.318761 ±7m ▲ -12m</b> </div>  <div> <b>FE 12</b> <span style="float: right;">HWPW 19 Mar 2025, 10:56:34 AM</span> </div> </div>	
<b>Description:</b> FE-12 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing south.		Lat: 29.785592 Long: -95.318761	




		<b>PHOTOGRAPH LOG</b>	
<b>Client Name:</b> <b>Union Pacific Railroad</b>		<b>Site Location:</b> Englewood Intermodal Yard, Houston, Texas	<b>Project No.</b> US0039040.4227
<b>Photo No.</b> <b>41</b>	<b>Inspection Date:</b> 3/19/2025	<div> <div> <b>● 44°NE (T) ● 29.785028, -95.321315 ±5m ▲ -13m</b> </div>  <div> <b>FE 13</b> <span style="float: right;"><b>HWPW</b> 19 Mar 2025, 10:57:42 AM</span> </div> </div>	
<b>Description:</b> FE-13 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing northeast.			
Lat: 29.785028 Long: -95.321315			
<b>Photo No.</b> <b>42</b>	<b>Inspection Date:</b> 3/26/2025	<div> <div> <b>NE ● 29.784277, -95.321029 ±13m ▲ -12m</b> </div>  <div> <b>FE 1&amp;3</b> <span style="float: right;"><b>HWPW</b> 26 Mar 2025, 10:33:08 AM</span> </div> </div>	
<b>Description:</b> FE-1&3 weekly inspection of asphalt cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing northeast.			
Lat: 29.784277 Long: -95.321029			

		<b>PHOTOGRAPH LOG</b>	
<b>Client Name:</b> <b>Union Pacific Railroad</b>		<b>Site Location:</b> Englewood Intermodal Yard, Houston, Texas	
<b>Project No.</b> US0039040.4227			
<b>Photo No.</b> <b>43</b>	<b>Inspection Date:</b> 3/26/2025	<div> NW • 29.784127, -95.320733 ±8m ▲ -12m </div>  <div> FE 2 HWPW 26 Mar 2025, 10:34:19 AM </div>	
<b>Description:</b> FE-2 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing northwest.			
Lat: 29.784127 Long: -95.320733			
<b>Photo No.</b> <b>44</b>	<b>Inspection Date:</b> 3/26/2025	<div> NE • 29.784826, -95.319675 ±8m ▲ -12m </div>  <div> FE 4 HWPW 26 Mar 2025, 10:36:35 AM </div>	
<b>Description:</b> FE-4 weekly inspection of asphalt cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing northeast.			
Lat: 29.784826 Long: -95.319675			









		<b>PHOTOGRAPH LOG</b>	
<b>Client Name:</b> <b>Union Pacific Railroad</b>		<b>Site Location:</b> Englewood Intermodal Yard, Houston, Texas	<b>Project No.</b> US0039040.4227
<b>Photo No.</b> <b>45</b>	<b>Inspection Date:</b> 3/26/2025	<div> <div> W • 29.785455, -95.318501 ±9m ▲ -12m </div>  <div> FE 5 HWPW 26 Mar 2025, 10:38:35 AM </div> </div>	
<b>Description:</b> FE-5 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Brown water staining at asphalt joint and along the southern edges of the FE cap observed. Facing west.			
Lat: 29.785455 Long: -95.318501			
<b>Photo No.</b> <b>46</b>	<b>Inspection Date:</b> 3/26/2025	<div> <div> 247°SW (T) • 29.785368, -95.318586 ±3m ▲ -12m </div>  <div> FE 5, south We 26 Mar 2025, 11:13:43 AM </div> </div>	
<b>Description:</b> FE-5 brown water staining observed where the asphalt joint meets the concrete cap, located within the red circle on Photo 45.			
Lat: 29.785368 Long: -95.318586			

		<b>PHOTOGRAPH LOG</b>	
<b>Client Name:</b> <b>Union Pacific Railroad</b>		<b>Site Location:</b> Englewood Intermodal Yard, Houston, Texas	<b>Project No.</b> US0039040.4227
<b>Photo No.</b> <b>47</b>	<b>Inspection Date:</b> 3/26/2025	<div> <div> NW • 29.785439, -95.318285 ±6m ▲ -12m </div>  <div> FE 6 <div> HWPW  26 Mar 2025, 10:39:43 AM </div> </div> </div>	
<b>Description:</b> FE-6 weekly inspection of asphalt cap. Reconstructed cap in good condition. No NAPL observed at FE location. Brown water staining along the edges of the FE cap observed. Facing northwest.			
Lat: 29.785439 Long: -95.318285			
<b>Photo No.</b> <b>48</b>	<b>Inspection Date:</b> 3/26/2025	<div> <div> 332°NW (T) • 29.785413, -95.318224 ±3m ▲ -12m </div>  <div> FE 6 south <div> We  26 Mar 2025, 11:08:12 AM </div> </div> </div>	
<b>Description:</b> FE-6 brown water staining observed along the asphalt joint that intersects the asphalt FE cap. Directly east and out of frame in Photo 47.			
Lat: 29.785413 Long: -95.318224			




		<b>PHOTOGRAPH LOG</b>	
<b>Client Name:</b> <b>Union Pacific Railroad</b>		<b>Site Location:</b> Englewood Intermodal Yard, Houston, Texas	<b>Project No.</b> US0039040.4227
<b>Photo No.</b> <b>49</b>	<b>Inspection Date:</b> 3/26/2025	<div>  </div> <p> <b>Description:</b>            FE-6 brown water staining observed along the edges of the western corner.         </p> <p>           Lat: 29.785419            Long: -95.318335         </p>	
<b>Photo No.</b> <b>50</b>	<b>Inspection Date:</b> 3/26/2025	<div>  </div> <p> <b>Description:</b>            FE-7 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing northwest.         </p> <p>           Lat: 29.784217            Long: -95.320612         </p>	



		<b>PHOTOGRAPH LOG</b>	
<b>Client Name:</b> <b>Union Pacific Railroad</b>		<b>Site Location:</b> Englewood Intermodal Yard, Houston, Texas	<b>Project No.</b> US0039040.4227
<b>Photo No.</b> <b>51</b>	<b>Inspection Date:</b> 3/26/2025	<div> <div> <b>N</b> <span>• 29.784914, -95.31908 ±9m ▲ -14m</span> </div>  <div> <b>FE 8</b> <span>HWPW 26 Mar 2025, 10:43:35 AM</span> </div> </div>	
<b>Description:</b> FE-8 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing north.			
Lat: 29.784914 Long: -95.319080			
<b>Photo No.</b> <b>52</b>	<b>Inspection Date:</b> 3/26/2025	<div> <div> <b>N</b> <span>• 29.785246, -95.31838 ±9m ▲ -14m</span> </div>  <div> <b>FE 9</b> <span>HWPW 26 Mar 2025, 10:44:00 AM</span> </div> </div>	
<b>Description:</b> FE-9 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing north.			
Lat: 29.785246 Long: -95.318380			

		<b>PHOTOGRAPH LOG</b>	
<b>Client Name:</b> <b>Union Pacific Railroad</b>		<b>Site Location:</b> Englewood Intermodal Yard, Houston, Texas	<b>Project No.</b> US0039040.4227
<b>Photo No.</b> <b>53</b>	<b>Inspection Date:</b> 3/26/2025	<div> <div> <b>W</b> • 29.784988, -95.317648 ±10m ▲ -12m </div>  <div> <b>FE 10</b> <span style="float: right;">HWPW 26 Mar 2025, 10:44:54 AM</span> </div> </div>	
<b>Description:</b> FE-10 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing west.			
Lat: 29.784988 Long: -95.317648			
<b>Photo No.</b> <b>54</b>	<b>Inspection Date:</b> 3/26/2025	<div> <div> <b>NW</b> • 29.784341, -95.319527 ±9m ▲ -12m </div>  <div> <b>FE 11</b> <span style="float: right;">HWPW 26 Mar 2025, 10:45:41 AM</span> </div> </div>	
<b>Description:</b> FE-11 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing northwest.			
Lat: 29.784341 Long: -95.319527			



		<b>PHOTOGRAPH LOG</b>	
<b>Client Name:</b> <b>Union Pacific Railroad</b>		<b>Site Location:</b> Englewood Intermodal Yard, Houston, Texas	<b>Project No.</b> US0039040.4227
<b>Photo No.</b> <b>55</b>	<b>Inspection Date:</b> 3/26/2025	<div> <div> <b>S</b> • 29.785595, -95.318705 ±10m ▲ -12m </div>  <div> <b>FE 12</b> <span style="float: right;"><b>HWPW</b> 26 Mar 2025, 10:46:26 AM</span> </div> </div>	
<b>Description:</b> FE-12 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing south.			
Lat: 29.785595 Long: -95.318705			
<b>Photo No.</b> <b>56</b>	<b>Inspection Date:</b> 3/26/2025	<div> <div> <b>NE (T)</b> • 29.78502, -95.321302 ±9m ▲ -12m </div>  <div> <b>FE 13</b> <span style="float: right;"><b>HWPW</b> 26 Mar 2025, 10:47:58 AM</span> </div> </div>	
<b>Description:</b> FE-13 weekly inspection of concrete cap. Reconstructed cap in good condition. No NAPL observed at FE location. Facing northeast.			
Lat: 29.785020 Long: -95.321302			



## PHOTOGRAPH LOG

Client Name:

Union Pacific Railroad

Site Location:

Englewood Intermodal Yard, Houston, Texas

Project No.

US0039040.4227

Photo No.

57

Inspection Date:

3/5/2025

**Description:**

Sump 1 (B99/B100), 1.8 inches of freeboard in sump. Color is tan, and no sheen or odor observed.

Lat: 29.784271

Long: -95.320781



Photo No.

58

Inspection Date:

3/5/2025

**Description:**




Sump 2 (B103/B104), 4.8 inches of freeboard in sump. Color is tan, and no sheen or odor observed.




Lat: 29.784250

Long: -95.320867





		<b>PHOTOGRAPH LOG</b>	
<b>Client Name:</b> <b>Union Pacific Railroad</b>		<b>Site Location:</b> Englewood Intermodal Yard, Houston, Texas	<b>Project No.</b> US0039040.4227
<b>Photo No.</b> <b>59</b>	<b>Inspection Date:</b> 3/5/2025	<div> <p>           231°SW (T) • 29.784201, -95.320988 ±19m ▲ -15m         </p>  <p> <small>B 107 / 108</small> <small>HWPW</small>  <small>05 Mar 2025, 11:53:36 AM</small> </p> </div>	
<b>Description:</b> Sump 3 (B107/B108), 3.5 inches of freeboard in sump. Color is clear, and no sheen or odor observed.			
Lat: 29.784201 Long: -95.320988			
<b>Photo No.</b> <b>60</b>	<b>Inspection Date:</b> 3/12/2025	<div> <p>           270°W (T) • 29.784295, -95.320767 ±2m ▲ -14m         </p>  <p> <small>B 99 / 100</small> <small>HWPW</small>  <small>12 Mar 2025, 2:00:21 PM</small> </p> </div>	
<b>Description:</b> Sump 1 (B99/B100), 2.3 inches of freeboard in sump. Color is tan, and no sheen or odor observed.			
Lat: 29.784295 Long: -95.320767			

		<b>PHOTOGRAPH LOG</b>	
<b>Client Name:</b> <b>Union Pacific Railroad</b>		<b>Site Location:</b> Englewood Intermodal Yard, Houston, Texas	<b>Project No.</b> US0039040.4227
<b>Photo No.</b> <b>61</b>	<b>Inspection Date:</b> 3/12/2025	<div> <div> <b>225°SW (T) • 29.784251, -95.320888 ±20m ▲ -9m</b> </div>  <div> <div>B 103 / 104</div> <div> HWPW  12 Mar 2025, 2:40:55 PM </div> </div> </div>	
<b>Description:</b> Sump 2 (B103/B104), 11.0 inches of freeboard in sump. Color is tan, and no sheen or odor observed.			
Lat: 29.784251 Long: -95.320888			
<b>Photo No.</b> <b>62</b>	<b>Inspection Date:</b> 3/12/2025	<div> <div> <b>287°W (T) • 29.784195, -95.320991 ±3m ▲ -9m</b> </div>  <div> <div>B 107 / 108</div> <div> HWPW  12 Mar 2025, 2:48:17 PM </div> </div> </div>	
<b>Description:</b> Sump 3 (B107/B108), 10.0 inches of freeboard in sump. Color is clear, and no sheen or odor observed.			
Lat: 29.784195 Long: -95.320991			





## PHOTOGRAPH LOG

Client Name:

Union Pacific Railroad

Site Location:

Englewood Intermodal Yard, Houston, Texas

Project No.

US0039040.4227

Photo No.

63

Inspection Date:

3/19/2025

**Description:**

Sump 1 (B99/B100), 1.5 inches of freeboard in sump. Color is clear, and no sheen or odor observed.

Lat: 29.784332

Long: -95.320770



Photo No.

64

Inspection Date:

3/19/2025

**Description:**



Sump 2 (B103/B104), 9.0 inches of freeboard in sump. Color is tan, and no sheen or odor observed.



Lat: 29.784223

Long: -95.320888











wsp		PHOTOGRAPH LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. US0039040.4227
Photo No. <b>65</b>	Inspection Date: 3/19/2025	<p>           222°SW (T) • 29.784196, -95.320975 ±3m ▲ -10m    <small>B 107 / B 108 HWPW 19 Mar 2025, 12:03:47 PM</small> </p>	
<p><b>Description:</b> Sump 3 (B107/B108), 10.0 inches of freeboard in sump. Color is clear, and no sheen or odor observed.</p> <p>Lat: 29.784196 Long: -95.320975</p>		<p>           256°SW (T) • 29.784301, -95.32072 ±2m ▲ -12m    <small>B 99 / B 100 HWPW 26 Mar 2025, 12:43:26 PM</small> </p>	
Photo No. <b>66</b>	Inspection Date: 3/26/2025	<p><b>Description:</b> Sump 1 (B99/B100), 2.0 inches of freeboard in sump. Color is clear, and no sheen or odor observed.</p> <p>Lat: 29.784301 Long: -95.320720</p>	



wsp		PHOTOGRAPH LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. US0039040.4227
Photo No. <b>67</b>	Inspection Date: 3/26/2025	<p>  </p> <p>           244°SW (T) • 29.784255, -95.320852 ±2m ▲ -13m            B103/B104            HWPW            26 Mar 2025, 12:22:22 PM         </p>	
<b>Description:</b> Sump 2 (B103/B104), 7.0 inches of freeboard in sump. Color is tan, and no sheen or odor observed.  Lat: 29.784255 Long: -95.320852		<p>  </p> <p>           260°W (T) • 29.784206, -95.320951 ±3m ▲ -13m            B107/B108            HWPW            26 Mar 2025, 12:22:13 PM         </p>	
Photo No. <b>68</b>	Inspection Date: 3/26/2025	<b>Description:</b> Sump 3 (B107/B108), 6.5 inches of freeboard in sump. Color is clear, and no sheen or odor observed.  Lat: 29.784206 Long: -95.320951	






		<b>PHOTOGRAPH LOG</b>	
<b>Client Name:</b> <b>Union Pacific Railroad</b>		<b>Site Location:</b> Englewood Intermodal Yard, Houston, Texas	<b>Project No.</b> US0039040.4227
<b>Photo No.</b> <b>69</b>	<b>Inspection Date:</b> 3/5/2025		
<b>Description:</b> Track 802 weekly inspection of track. Surrounding concrete and ballast in good condition. No NAPL observed at location.  Lat: 29.784950 Long: -95.321204			
<b>Photo No.</b> <b>70</b>	<b>Inspection Date:</b> 3/5/2025		
<b>Description:</b> B107 weekly inspection of joint. Surrounding concrete in good condition. No NAPL observed along joint.  Lat: 29.784151 Long: -95.320956			




		<b>PHOTOGRAPH LOG</b>	
<b>Client Name:</b> <b>Union Pacific Railroad</b>		<b>Site Location:</b> Englewood Intermodal Yard, Houston, Texas	<b>Project No.</b> US0039040.4227
<b>Photo No.</b> <b>71</b>	<b>Inspection Date:</b> 3/12/2025	<div> <div> <b>Description:</b>            Track 802 weekly inspection of track. Surrounding concrete and ballast in good condition. No NAPL observed at location.         </div> <div>           Lat: 29.784975            Long: -95.321203         </div> </div> <div> <div>           169°S (T) • 29.784975, -95.321203 ±3m ▲ -13m         </div>  <div>           Track 802           <span style="float: right;">HWPW 12 Mar 2025, 1:21:14 PM</span> </div> </div>	
<b>Photo No.</b> <b>72</b>	<b>Inspection Date:</b> 3/12/2025	<div> <div> <b>Description:</b>            B107 weekly inspection of joint. Surrounding concrete in good condition. No NAPL observed along joint.         </div> <div>           Lat: 29.784171            Long: -95.320931         </div> </div> <div> <div>           265°W (T) • 29.784171, -95.320931 ±1m ▲ -13m         </div>  <div>           B 107           <span style="float: right;">HWPW 12 Mar 2025, 1:23:42 PM</span> </div> </div>	






<b>Client Name:</b> <b>Union Pacific Railroad</b>		<b>Site Location:</b> Englewood Intermodal Yard, Houston, Texas	<b>Project No.</b> US0039040.4227
<b>Photo No.</b> <b>73</b>	<b>Inspection Date:</b> 3/19/2025	 <p>Track 802 weekly inspection of track. Surrounding concrete and ballast in good condition. No NAPL observed at location.</p> <p>Lat: 29.784971 Long: -95.321239</p>	
<b>Photo No.</b> <b>74</b>	<b>Inspection Date:</b> 3/19/2025	 <p>B107 weekly inspection of joint. Surrounding concrete in good condition. No NAPL observed along joint.</p> <p>Lat: 29.784176 Long: -95.320997</p>	




		<b>PHOTOGRAPH LOG</b>	
<b>Client Name:</b> <b>Union Pacific Railroad</b>		<b>Site Location:</b> Englewood Intermodal Yard, Houston, Texas	<b>Project No.</b> US0039040.4227
<b>Photo No.</b> <b>75</b>	<b>Inspection Date:</b> 3/26/2025	<div> <div> <b>Description:</b>            Track 802 weekly inspection of track. Surrounding concrete and ballast in good condition. No NAPL observed at location.         </div> <div>           Lat: 29.784973            Long: -95.321182         </div> </div> <div>  </div>	
<b>Photo No.</b> <b>76</b>	<b>Inspection Date:</b> 3/26/2025	<div> <div> <b>Description:</b>            B107 weekly inspection of joint. Surrounding concrete in good condition. No NAPL observed along joint.         </div> <div>           Lat: 29.784170            Long: -95.320953         </div> </div> <div>  </div>	









		<b>PHOTOGRAPH LOG</b>	
<b>Client Name:</b> <b>Union Pacific Railroad</b>		<b>Site Location:</b> Englewood Intermodal Yard, Houston, Texas	<b>Project No.</b> US0039040.4227
<b>Photo No.</b> <b>77</b>	<b>Inspection Date:</b> 3/6/2025	<div> <div>         ☉ 62°NE (T) • 29.784822, -95.319762 ±3m ▲ -17m       </div>  <div>         A 60 through A 70         <span style="float: right;">HWPW 06 Mar 2025 10:30:13 AM</span> </div> </div>	
<b>Description:</b> Minimal brown water staining along the joint that runs from A060 through A070. Facing northeast.			
Lat: 29.784822 Long: -95.319762			
<b>Photo No.</b> <b>78</b>	<b>Inspection Date:</b> 3/12/2025	<div> <div>         ☉ 246°SW (T) • 29.784889, -95.319728 ±3m ▲ -12m       </div>  <div>         A 60 through A 70         <span style="float: right;">HWPW 12 Mar 2025 1:02:14 PM</span> </div> </div>	
<b>Description:</b> Brown water staining along the joint that runs from A060 through A070. Facing southwest.			
Lat: 29.784889 Long: -95.319728			

		<b>PHOTOGRAPH LOG</b>	
<b>Client Name:</b> <b>Union Pacific Railroad</b>		<b>Site Location:</b> Englewood Intermodal Yard, Houston, Texas	<b>Project No.</b> US0039040.4227
<b>Photo No.</b> <b>79</b>	<b>Inspection Date:</b> 3/12/2025	<div> <div> <b>249°SW (T) • 29.78488, -95.319717 ±1m ▲ -13m</b> </div>  <div>           Seepage Area            HWPW            12 Mar 2025, 1:29:49 PM         </div> </div>	
<b>Description:</b> Brown water staining along crack in asphalt in stall A061.  Lat: 29.784880 Long: -95.319717			
<b>Photo No.</b> <b>80</b>	<b>Inspection Date:</b> 3/19/2025	<div> <div> <b>240°SW (T) • 29.784916, -95.319687 ±2m ▲ -11m</b> </div>  <div>           A 53 through A 60            HWPW            19 Mar 2025, 11:07:12 AM         </div> </div>	
<b>Description:</b> Brown water staining along the joint that runs from A050 through A070. Facing southwest.  Lat: 29.784916 Long: -95.319687			



		<b>PHOTOGRAPH LOG</b>	
<b>Client Name:</b> <b>Union Pacific Railroad</b>		<b>Site Location:</b> Englewood Intermodal Yard, Houston, Texas	<b>Project No.</b> US0039040.4227
<b>Photo No.</b> <b>81</b>	<b>Inspection Date:</b> 3/19/2025	<div> <div> <b>244°SW (T) • 29.785303, -95.318578 ±3m ▲ -12m</b> </div>  <div>           B 17 through B 38           <span style="float: right;">HWPW 19 Mar 2025, 11:15:44 AM</span> </div> </div>	
<b>Description:</b> Brown water staining along the joint that runs from B017 through B038. Facing southwest.			
Lat: 29.785303 Long: -95.318578			
<b>Photo No.</b> <b>82</b>	<b>Inspection Date:</b> 3/19/2025	<div> <div> <b>242°SW (T) • 29.78523, -95.318725 ±3m ▲ -12m</b> </div>  <div>           B 17 through B 38           <span style="float: right;">HWPW 19 Mar 2025, 11:16:02 AM</span> </div> </div>	
<b>Description:</b> Brown water staining along the joint that runs from B017 through B038. Facing southwest.			
Lat: 29.785230 Long: -95.318725			

		<b>PHOTOGRAPH LOG</b>	
<b>Client Name:</b> Union Pacific Railroad		<b>Site Location:</b> Englewood Intermodal Yard, Houston, Texas	
<b>Project No.</b> US0039040.4227			
<b>Photo No.</b> <b>83</b>	<b>Inspection Date:</b> 3/26/2025	<div> <div>       234°SW (T) • 29.784895, -95.319665 ±3m ▲ -12m     </div>  <div>       A 50 through A 70     </div> <div>       We        26 Mar 2025, 11:02:18 AM     </div> </div>	
<b>Description:</b> Brown water staining along the joint that runs from A050 through A070. Facing southwest.			
Lat: 29.784895 Long: -95.319665			
<b>Photo No.</b> <b>84</b>	<b>Inspection Date:</b> 3/26/2025	<div> <div>       236°SW (T) • 29.784848, -95.319802 ±3m ▲ -12m     </div>  <div>       A 50 through A 70     </div> <div>       We        26 Mar 2025, 11:02:34 AM     </div> </div>	
<b>Description:</b> Brown water staining along the joint that runs from A050 through A070. Facing southwest.			
Lat: 29.784848 Long: -95.319802			

		<b>PHOTOGRAPH LOG</b>	
<b>Client Name:</b> <b>Union Pacific Railroad</b>		<b>Site Location:</b> Englewood Intermodal Yard, Houston, Texas	<b>Project No.</b> US0039040.4227
<b>Photo No.</b> <b>85</b>	<b>Inspection Date:</b> 3/26/2025	<div> <div>         ☉ 62°NE (T) • 29.785196, -95.318788 ±3m ▲ -13m       </div>  <div>         B 14 / B 29         <span style="float: right;">We 26 Mar 2025, 11:12:31 AM</span> </div> </div>	
<b>Description:</b> Brown water staining along the joint that runs from B014 through B038. Facing northeast.			
Lat: 29.785196 Long: -95.318788			
<b>Photo No.</b> <b>86</b>	<b>Inspection Date:</b> 3/26/2025	<div> <div>         ☉ 242°SW (T) • 29.785349, -95.318533 ±3m ▲ -12m       </div>  <div>         B 14 / B 29         <span style="float: right;">We 26 Mar 2025, 11:11:53 AM</span> </div> </div>	
<b>Description:</b> Brown water staining along the joint that runs from B014 through B038 directly south of FE-5. A small brown water seep was observed. Facing southwest.			
Lat: 29.785349 Long: -95.318533			