

January 15, 2022

Project No. 19119232

Ms. Maureen Hatfield

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

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

Dear Ms. Hatfield:

Golder Associates USA Inc. (Golder), a member of WSP, on behalf of Union Pacific Railroad Company (UPRR), is pleased to provide this monthly status update for December 2021 for inspections conducted at the Englewood Intermodal Yard concrete cap area within the UPRR Houston Wood Preserving Works Facility (the Site). Monthly status updates were requested by the Texas Commission on Environmental Quality (TCEQ) in a letter dated March 20, 2018.

A non-aqueous phase liquid (NAPL) Collection System was installed in the Englewood Intermodal Yard in January 2019 to address the tar-like substance seeps within parking stalls B100 to B109 (for container trailers). The following is a summary of the observations from the weekly inspections of the NAPL Collection System and Englewood Intermodal Yard concrete pavement near the collection system for December 2021 (photographs from the weekly inspections are provided in Attachment A):

- The water level in NAPL Collection System Sump 1 (B099/B100 stalls) was at 7 inches below the top of the sump during the December 1, 2021 inspection and increased to the top of the sump by the December 29, 2021 inspection. Water levels in Sump 2 (B103/B104 stalls) and Sump 3 (B107/B108 stalls) were at 15 inches and 14 inches below the top of the sumps, respectively, during the December 1, 2021 inspection and increased to 11.5 inches and 11 inches, respectively, by the December 29, 2021 inspection. Weekly water levels for the sumps are available in Table 1. The water in the sumps was observed as being brown in color. No sheens or odors were reported during the December inspections. Photos of the sumps during the weekly inspections are provided in Attachment A.
- The NAPL Collection System sumps (Sumps 1, 2, and 3) have continued to be checked weekly for DNAPL using an interface probe. Even though no measurable DNAPL has been noted, a dipper tool has continued to be used to further evaluate the presence of and recover DNAPL, if present, from the bottom of each of the sumps during the weekly inspections. No DNAPL was observed or encountered using the dipper tool during the weekly inspections in December.

- No NAPL seeps were observed near the NAPL Collection System in December 2021. For areas outside the NAPL Collection System, a small amount of tar-like material was observed on the concrete surface at the following location during the December 2021 weekly inspections:

| Seep Observations Outside the NAPL Collection System Area | |
|---|----------------------------|
| Stall Number | Observation Date(s) |
| A011 | December 8th (Photo No. 7) |

Tar-like material observed during the inspection event was recovered using a hand tool to scrape up the material. During September 2021, track marks from a container transport vehicle running over the seep in stall B102 were observed and barricades were set up surrounding the seep location to prevent further tracking. The barricades are checked and reset, as needed, during the weekly inspections. UPRR remediation contractor US Ecology pressure washed the tar-like material tracking in October 2021. Residual track marks were observed during the December inspections (Photo Nos. 11 and 22). No active seeps in Stall B102 or new track marks were observed during the month of December 2021. During December, the number of tar-like material seeps observed during inspections and the total amount of material removed from the concrete surface decreased compared to the November inspections. The only tar-like material seep observed during the December inspections was the small area at stall A011 during the December 8th inspection. Less than 0.1 gallons of tar-like material was recovered for the month and placed in a drum for disposal. The drum is staged at the Container Storage Area (CSA).

- No brown water seeping or staining was observed during December. UPRR will continue to have a remediation contractor pressure wash and/or collect the water in the areas where the brown staining and seeps are observed, as needed.
- Golder, on behalf of UPRR, submitted to the TCEQ the Englewood IM Yard Test Pit Evaluation Report dated June 2, 2021 summarizing the findings from the test pits installed in July 2020, including weekly inspections since the installation. During the weekly inspections through December 2021, no NAPL seeps have been observed at the seven test pit locations (stalls A010, A021, A098, B013, B057, B096, and B108). As discussed in the Test Pit Report, the test pit inspections were to continue through the warmer months (through September 2021). UPRR will prepare a Test Pit Evaluation Report Addendum summarizing the test pit inspections from June through September 2021. During inspections in June and July 2021 the concrete patches covering test pits in stalls A010, A021, B013, B057, B096, and B108 were observed to be damaged. UPRR contractor US Ecology removed the damaged test pit concrete on October 22, 2021 and completed installation of new rebar and concrete on October 25, 2021. The new concrete patches were inspected during the weekly inspections. No seeps were observed around the previous test pits in December.
- A follow-up video camera survey of the stormwater sewer lines in the central area of the Englewood IM Yard was conducted on August 26, 2021 to evaluate the stormwater line near the test pit locations. Details of the follow-up video survey will be provided in the Test Pit Evaluation Report Addendum.
- Weekly site inspections of the NAPL Collection System and Englewood Intermodal Yard concrete pavement near the collection system will continue to be conducted. 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. No measurable NAPL has been detected in the sumps using the interface probe through December 2021.

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

Sincerely,

Golder Associates USA Inc.



Eric C. Matzner, P.G.
Principal / Program Leader



Sarah Balke, G.I.T
Consultant, Geologist

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

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

TABLE

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 | |
| 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 |

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 |
|---------------|-----------------------------------|-----------------------------------|-----------------------------------|---------------------|---|
| 10/21/2020 | 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 | |

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

ATTACHMENT A

Weekly Inspection Photolog



PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Houston, Texas

Project No.
19119232

Photo No.
1

Inspection Date:
12/1/2021

Description:

Slot A021, no tar-like material seeps observed where test pit conducted (July 2020), test pit pavement repaired, looking southwest.

Lat: 29.785392,
Long: -95.318655



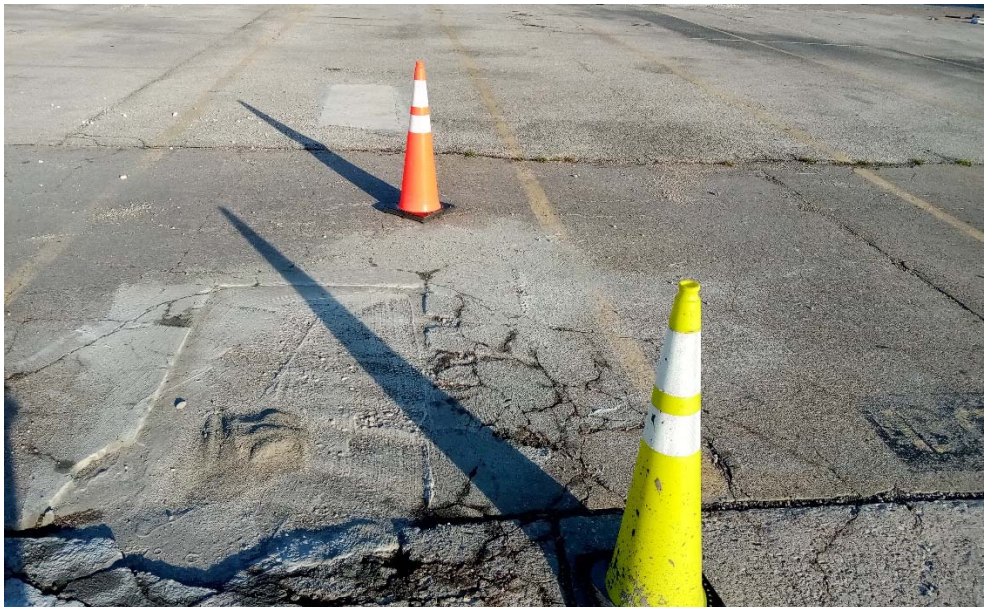
Photo No.
2

Inspection Date:
12/1/2021

Description:

Slot B013, no tar-like material seeps observed where test pit conducted (July 2020), test pit pavement repaired, looking northeast.

Lat: 29.785217
Long: - 95.318261





PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Houston, Texas

Project No.
19119232

Photo No.
3

Inspection Date:
12/1/2021

Description:

Slot B096, no tar-like material seeps observed where test pit conducted (July 2020), test pit pavement repaired, looking northwest.

Lat: 29.7842528
Long: - 95.3206250

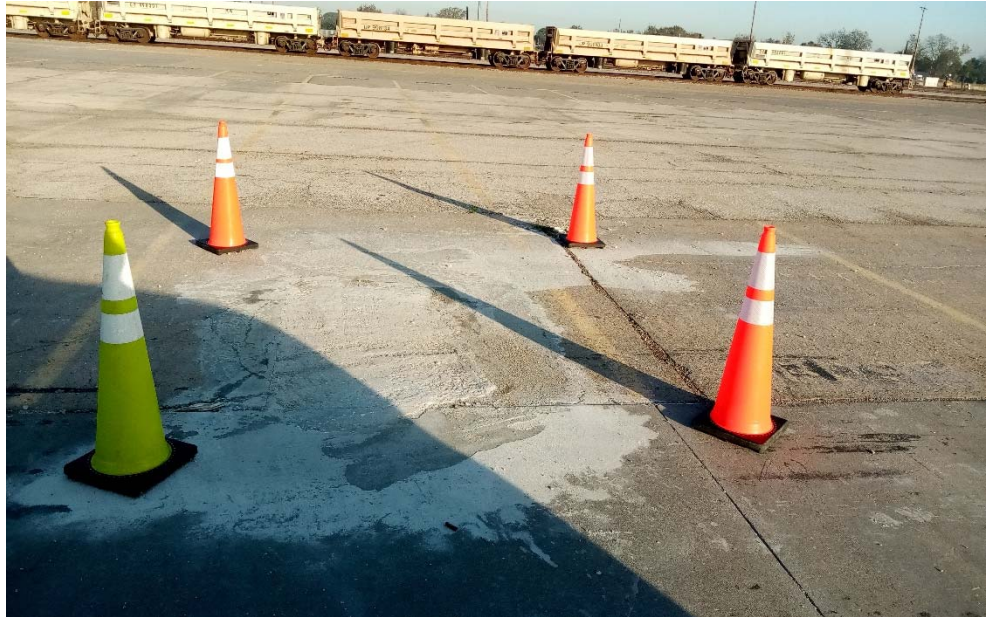


Photo No.
4

Inspection Date:
12/1/2021

Description:



Sump 1 (B099/B100), 7 inches of freeboard in sump, no sheen or odor noted.

Lat: 29.7844000
Long: - 95.3205861







PHOTOGRAPHIC LOG

| | | | |
|--|--------------------------------------|--|--------------------------------|
| Client Name: Union Pacific Railroad | | Site Location: Englewood Houston, Texas | Project No. 19119232 |
| Photo No. 5 | Inspection Date: 12/1/2021 |  | |
| Description: Sump 2 (B103/B104), 15 inches of freeboard in sump. No sheen or odor noted. Lat: 29.7842861 Long: - 95.3208611 | | | |
| Photo No. 6 | Inspection Date: 12/1/2021 |  | |
| Description: Sump 3 (B107/B108), 21 inches of freeboard in sump. No sheen or odor noted. No tar-like material recovered. Lat: 29.784172 Long: -95.320998 | | | |



PHOTOGRAPHIC LOG

| | | | |
|--|--------------------------------------|--|---|
| Client Name: Union Pacific Railroad | | Site Location: Englewood Houston, Texas | Project No. 19119232 |
| Photo No. 7 | Inspection Date: 12/8/2021 | <p>Description:</p> <p>Slot A011, very small amount of tar-like material seeping at asphalt crack, material was removed.</p> <p>Lat: 29.785467 Long: -95.318347</p> | |
| Photo No. 8 | | Inspection Date: 12/8/2021 | <p>Description:</p> <p>Slot B057, no active tar-like material seeps observed at historical seep location or where test pit conducted (July 2020), residual staining noted.</p> <p>Lat: 29.7847472 Long: - 95.3195417</p> |
| | |  | |
| | |  | |



Client Name:
Union Pacific Railroad

Site Location:
Englewood Houston, Texas

Project No.
19119232

Photo No.
9

Inspection Date:
12/8/2021

Description:

View of A and B rows, no new staining observed, residual staining visible, looking west.

Lat: 29.785231
Long: -95.317698



Photo No.
10

Inspection Date:
12/8/2021

Description:

Sump 1 (B099/B100), 6 inches of freeboard in sump, no sheen or odor noted.

Lat: 29.7844000
Long: - 95.3205861





Client Name:
Union Pacific Railroad

Site Location:
Englewood Houston, Texas

Project No.
19119232

Photo No.
11

Inspection Date:
12/8/2021

Description:

Slot B102, no active tar-like material seeps observed, residual staining noted.

Lat: 29.7842203

Long: - 95.320827



Photo No.
12

Inspection Date:
12/8/2021

Description:

Slot B105, no active tar-like material seeps observed, residual staining noted.

Lat: 29.7841472

Long: - 95.3208777





Client Name:
Union Pacific Railroad

Site Location:
Englewood Houston, Texas

Project No.
19119232

Photo No.
13

Inspection Date:
12/15/2021

Description:

Slots A010, no tar-like material observed, July 2020 test pit pavement repaired, looking southwest.

Lat: 29.785392,
Long: -95.318655



Photo No.
14

Inspection Date:
12/15/2021

Description:

Slot A011, no active tar-like material seeps observed, residual staining noted.

Lat: 29.785467
Long: -95.318347





Client Name:
Union Pacific Railroad

Site Location:
Englewood Houston, Texas

Project No.
19119232

Photo No.
15

Inspection Date:
12/15/2021

Description:

Slot B096, no tar-like material seeps observed where test pit conducted (July 2020), test pit pavement repaired, looking northwest.

Lat: 29.7842528
Long: - 95.3206250



Photo No.
16

Inspection Date:
12/15/2021

Description:

Sump 1 (B099/B100), 6 inches of freeboard in sump, no sheen or odor noted.

Lat: 29.7844000
Long: - 95.3205861





PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Houston, Texas

Project No.
19119232

Photo No.
17

Inspection Date:
12/15/2021

Description:

Sump 2 (B103/B104), 15 inches of freeboard in sump. No sheen or odor noted.

Lat: 29.7842861
Long: - 95.3208611



Photo No.
18

Inspection Date:
12/15/2021

Description:



Sump 3 (B107/B108), 15 inches of freeboard in sump no sheen or odor noted. No tar-like material recovered.

Lat: 29.784172
Long: -95.320998







PHOTOGRAPHIC LOG

| | | | |
|---|---------------------------------------|--|--------------------------------|
| Client Name: Union Pacific Railroad | | Site Location: Englewood Houston, Texas | Project No. 19119232 |
| Photo No. 19 | Inspection Date: 12/29/2021 |  | |
| Description: Slot A011, no active tar-like material seeps observed, residual staining noted, looking south. Lat: 29.785467 Long: -95.318347 | | | |
| Photo No. 20 | Inspection Date: 12/29/2021 |  | |
| Description: Slot A022, no active tar-like material seeps observed, looking south. Lat: 29.785392, Long: -95.318655 | | | |


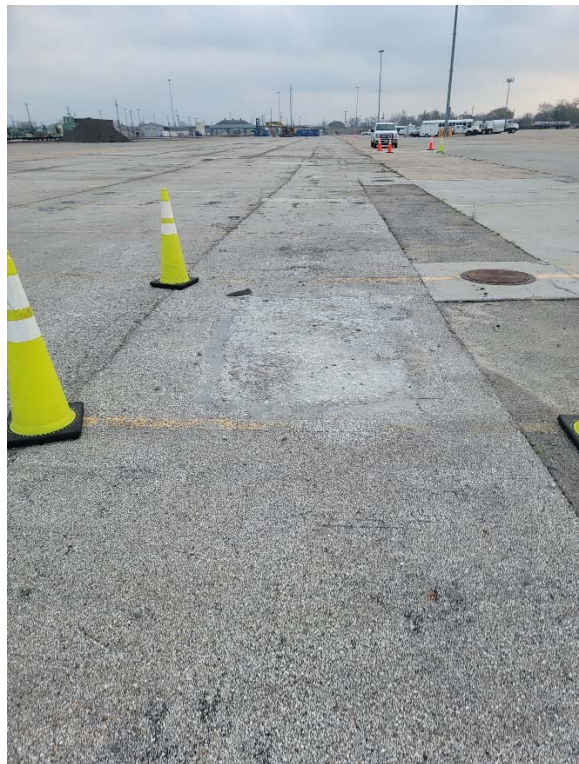


PHOTOGRAPHIC LOG

| | | | |
|---|---------------------------------------|--|--------------------------------|
| Client Name: Union Pacific Railroad | | Site Location: Englewood Houston, Texas | Project No. 19119232 |
| Photo No. 21 | Inspection Date: 12/29/2021 |  | |
| Description: Sump 1 (B099/B100), 0 inches of freeboard in sump, no sheen or odor noted. Lat: 29.7844000 Long: - 95.3205861 | | | |
| Photo No. 22 | Inspection Date: 12/29/2021 |  | |
| Description: Slot B101, no tar-like material seeps observed, residual staining noted, looking northwest. Lat: 29.784275 Long: - 95.320813 | | | |



PHOTOGRAPHIC LOG

| | | | |
|---|---------------------------------------|--|--------------------------------|
| Client Name: Union Pacific Railroad | | Site Location: Englewood Houston, Texas | Project No. 19119232 |
| Photo No. 23 | Inspection Date: 12/29/2021 |  | |
| Description: Slot B108, view of NAPL Collection System (Sump B107/B108 and test pit in background). No tar-like material seeps observed where test pit (July 2020) conducted, test pit pavement repaired, looking northwest. Lat: 29.784125 Long: - 95.320989 | | | |
| Photo No. 24 | Inspection Date: 12/29/2021 |  | |
| Description: View of slots B109-B090, NAPL collection system visible and B108 test pit (July 2020), looking east. Lat: 29.784358 Long: -95.320611 | | | |