

June 2, 2020

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, Inc. (Golder), on behalf of Union Pacific Railroad Company (UPRR), is pleased to provide this monthly status update for May 2020 for the implementation of the cap repairs identified in the Updated Post-Response Action Care Report (PRACR) dated January 16, 2018 for 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 brief description of the current status of the repairs is provided below:

The non-aqueous phase liquid (NAPL) Collection System was installed in the Englewood Intermodal Yard to address the tar-like substance seeps within parking slots 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 May (photographs of from the weekly inspections are provided in Attachment A):

- No significant amount of NAPL has been visually observed within NAPL collection Sump 1 (B099/B100 slots), Sump 2 (B103/B104 slots), or Sump 3 (B107/B108 slots). No dense NAPL (DNAPL) was recovered from any sump during the month of May.
- Water continues to accumulate in the NAPL collection sumps. To slow water accumulation from surface runoff, new manhole covers without holes were installed on the NAPL collection sumps and measurements have been taken to facilitate ordering of new inflow protectors. Water still tends to collect more rapidly in Sump 1 compared to Sumps 2 or 3 following pump down events. The last pump down of the sumps occurred on February 20, 2020. By mid-March 2020, the water in Sump 1 had recovered to the top of the sump. The water level in Sump 1 stayed between 0-1.5 inches from

the top of the sump through May 22, 2020, when the sump was pumped down again. The water level in the sump returned to near the surface by the May 27th weekly inspection. Whereas Sumps 2 and 3 had only recovered to approximately 14 and 13 inches from the top of the sump by May 27, 2020. The water in Sumps 1, 2, and 3 was observed as being brown in color but with no odor or sheen observed.

- A small amount of tar-like material was noted seeping to the surface adjacent to the NAPL Collection System at Slot B103 where a previous seep has been noted. No other seeps were noted around the NAPL Collection Systems. For areas outside the NAPL Collection System, very small amounts of tar-like material were noted on the concrete surface in stalls A021, B096, B101, B102, B105, and B108 where previous seeps have been observed. The overall amount of the tar-like material seeping has continued to increase over the past month as daily high temperatures have increased. Less than 1 gallon of the tar-like material was recovered from these areas during May 2020.
- Beginning in May, brown staining and seep water was observed along asphalt joints and cracks throughout the B-Row (predominately in the B090 – B098 area) but was also observed within the A-Row. The most extensive staining and seep water was observed during the weekly inspections on May 12th and 19th, 2020. USES was called out to the Site on May 14th and 22nd to pressure wash the areas and collect the fluids, which were placed in a tote on site next to the frac tank used to temporarily store water pumped from the NAPL Collection sumps. UPRR will continue to have USES pressure wash the areas where the brown staining and seeps are observed as needed. A sample of the water in the tote will be collected in June for waste characterization.

Weekly site inspections of the NAPL Collection System and Englewood Intermodal Yard concrete pavement near the collection system will continue to be conducted. In response to the TCEQ letter dated August 9, 2019, a notation on the presence of NAPL in each sump and tabulation of depth and thickness of NAPL if detected, and a tabulation of total contaminant mass of NAPL recovered from each sump is provided. The requested information is provided on the enclosed Table 1. Through May 2020, no NAPL has been measurable in the sumps using the interface probe.

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 Inc.



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



Eric Pastor, P.E.
Principal / Program Leader

ECM

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 Sumps
Weekly Inspection Photolog

[https://golderassociates.sharepoint.com/sites/116841/project files/6 deliverables/pracr/tceq comment letter/2020-05 may monthly update/houston, tx-wpw-sw-31547 - monthly status update - cap repairs 202005.docx](https://golderassociates.sharepoint.com/sites/116841/project%20files/6%20deliverables/pracr/tceq%20comment%20letter/2020-05%20may%20monthly%20update/houston,%20tx-wpw-sw-31547%20monthly%20status%20update%20cap%20repairs%20202005.docx)

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

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
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Photo No. 1	Date: 05/04/2020
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Description:

Slot A021, very little tar-like material seeping at joint, material was removed.

Lat: 29.785392,
Long: -95.318655



Photo No. 2	Date: 05/04/2020
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Description:

Slot B102, very small amount of tar-like material seeping at joint, material was removed.

Lat: 29.7842203
Long: - 95.320827





PHOTOGRAPHIC LOG

Client Name: Union Pacific Railroad	Site Location: Englewood Houston, Texas	Project No. 19119232
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Photo No. 3	Date: 05/04/2020
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Description:

Slot B096, very small amount of tar-like material seeping at joint, material was removed.

Lat: 29.7842528
Long: - 95.3206250



Photo No. 4	Date: 05/04/2020
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Description:

Slot B101, small amount of tar-like material seeping at asphalt crack, material was removed.

Lat: 29.784275
Long: - 95.320813





PHOTOGRAPHIC LOG

Client Name: Union Pacific Railroad	Site Location: Englewood Houston, Texas	Project No.: 19119232
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Photo No. 5	Date: 05/04/2020
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Description:

Slot B108, very small amount tar-like material seeping at asphalt crack, material was removed.

Lat: 29.784125
Long: - 95.320989



Photo No. 6	Date: 05/04/2020
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Description:

Brown water observed in crack within Stall A015.

Lat: 29.785457
Long: -95.318485





PHOTOGRAPHIC LOG

Client Name: Union Pacific Railroad	Site Location: Englewood Houston, Texas	Project No.: 19119232
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Photo No. 7	Date: 05/12/2020
Description: Slot A010, no tar-like material seeps observed, looking south. Lat: 29.7855833, Long: -95.318375	



Photo No. 8	Date: 05/12/2020
Description: Slot B057, no tar-like material seeps observed. Lat: 29.7847472 Long: -95.3195417	





PHOTOGRAPHIC LOG

Client Name: Union Pacific Railroad		Site Location: Englewood Houston, Texas	Project No.: 19119232
Photo No.: 9	Date: 05/12/2020		
Description: Slot B104, view of NAPL Collection System (Sump 103/104 in foreground). No tar-like material seeps observed, looking north. Lat: 29.7841639 Long: - 95.3208694			
Photo No.: 10	Date: 05/12/2020		
Description: Sump B103/B104, 20 inches of freeboard in sump, no sheen or odors noted. Lat: 29.7842861 Long: - 95.3208611			



PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Houston, Texas

Project No.
19119232

Photo No.
11

Date:
05/12/2020

Description:

Slot A021, very little tar-like material seeping at joint, material was removed.

Lat: 29.785392,
Long: -95.318655



Photo No.
12

Date:
05/12/2020

Description:

Sump B107/B108, approx. 19 inches of freeboard in sump, no sheen or odors noted. No tar-like material noted.

Lat: 29.7842861
Long: - 95.3208611





PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Houston, Texas

Project No.
19119232

Photo No.
13

Date:
05/12/2020

Description:

Brown staining and water observed along the crack in the asphalt within Stall B097, later cleaned by USES.

Lat: 29.784402
Long: -95.320520



Photo No.
14

Date:
05/12/2020

Description:

Brown water observed in Stall A101, later recovered and cleaned by USES.

Lat: 29.784476
Long: -95.320702





Client Name:
Union Pacific Railroad

Site Location:
Englewood Houston, Texas

Project No.
19119232

Photo No.
15

Date:
05/14/2020

Description:

Remediation contractor (USES) pressure washing stained areas (view of Slots B094 – B097), looking west.

Lat: 29.784303
Long: -95.320605



Photo No.
16

Date:
05/14/2020

Description:

View of slots following pressure washing (USES), looking north.

Lat: 29.784303
Long: -95.320574





PHOTOGRAPHIC LOG

Client Name: Union Pacific Railroad	Site Location: Englewood Houston, Texas	Project No.: 19119232
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Photo No. 17	Date: 05/19/2020
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Description:

Slots B096-B110, NAPL Collection System and frac tank in the background, looking west.

Lat: 29.785217
Long: - 95.318261



Photo No. 18	Date: 05/19/2020
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Description:

Slot B096, small amount of tar-like material seeping at joint, material was removed.

Lat: 29.7842528
Long: - 95.3206250





PHOTOGRAPHIC LOG

Client Name: Union Pacific Railroad	Site Location: Englewood Houston, Texas	Project No.: 19119232
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Photo No. 19	Date: 05/19/2020
Description: Slot B013, no tar-like material seeps observed, looking north. Lat: 29.785217 Long: - 95.318261	



Photo No. 20	Date: 05/19/2020
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Description: Sump B099/B100, 0.5 inches of freeboard in sump, no sheen or odors noted. Sump was pumped down by USES on 5/22. Lat: 29.7844000 Long: - 95.3205861	
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PHOTOGRAPHIC LOG

Client Name: Union Pacific Railroad	Site Location: Englewood Houston, Texas	Project No. 19119232
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Photo No. 21	Date: 05/19/2020
Description: Slot B057, no tar-like material seeps observed, looking north. Lat: 29.7847472 Long: - 95.3195417	



Photo No. 22	Date: 05/22/2020
Description: Slots B096-B110, brown water and staining observed along asphalt cracks, USES onsite to pressure wash and collect the water. NAPL Collection System and frac tank in the background, looking southwest. Lat: 29.785217 Long: - 95.318261	





PHOTOGRAPHIC LOG

Client Name: Union Pacific Railroad	Site Location: Englewood Houston, Texas	Project No. 19119232
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Photo No. 23	Date: 05/22/2020
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Description

Brown water observed in Stall B099, later cleaned by USES.

Lat: 29.7844000
Long: - 95.3205861



Photo No. 24	Date: 05/22/2020
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Description:

Brown water observed in Stall B013, later cleaned by USES.

Lat: 29.785217
Long: - 95.318261





PHOTOGRAPHIC LOG

Client Name: Union Pacific Railroad	Site Location: Englewood Houston, Texas	Project No.: 19119232
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Photo No.: 25	Date: 05/27/2020
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Description:

Slot A022, no tar-like material seeps observed, water on pavement from recent rain event noted, looking south.

Lat: 29.785382
Long: -95.318678



Photo No.: 26	Date: 05/27/2020
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Description:

Slot B101, small amount of tar-like material seeping at asphalt crack, material was removed.

Lat: 29.784275
Long: -95.320813





PHOTOGRAPHIC LOG

Client Name: Union Pacific Railroad	Site Location: Englewood Houston, Texas	Project No.: 19119232
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Photo No.: 27	Date: 05/27/2020
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Description:

Slot B105, small amount tar-like material seeping at asphalt crack, material was removed.

Lat: 29.7841472
Long: - 95.3208777



Photo No.: 28	Date: 05/04/2020
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Description:

Slot B096, small amount of tar-like material removed from sump.

Lat: 29.7842528
Long: - 95.3206250





PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Houston, Texas

Project No.
19119232

Photo No.
29

Date:
05/27/2020

Description:

Frac tank for storage of pumped down water from NAPL Collection Sumps (in Slot B110) and tote for storage of recovered pressure wash water/brown water, looking northwest.

Lat: 29.7841028
Long: - 95.3209833



Photo No.
30

Date:
05/27/2020

Description:

Slot B099, brown staining observed along asphalt cracks in slot B099 and surrounding slots, looking southeast.

Lat: 29.7842472
Long: - 95.3206944





PHOTOGRAPHIC LOG

Client Name: Union Pacific Railroad	Site Location: Englewood Houston, Texas	Project No.: 19119232
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Photo No.: 31	Date: 05/27/2020
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Description:

Slot B099, view of NAPL Collection System (Sump 099/100 in background). No tar-like material seeps observed, looking north.

Lat: 29.7842472
Long: - 95.3206944



Photo No.: 32	Date: 05/27/2020
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Description:

Slot B102, small amount of tar-like material seeping at joint, material was removed.

Lat: 29.7842203
Long: - 95.320827

