



April 3, 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 March 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 March (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).
- Water continues to collect in the NAPL collection sumps. To slow water collection, new manhole covers without holes were installed on the NAPL collection sumps and measurements have been taken to order 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 March 18, 2020, the water in Sump 1 had recovered to the top of the sump. Whereas Sumps 2 and 3 had only recovered to approximately 29 and 28 inches from the top of the sump by

March 27, 2020. The water in Sumps 1, 2, and 3 was observed as being brown in color with no odor or sheen.

- A small amount of tar-like material was noted 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 in stalls A021, B096, B101, B102, and B108 where previous seeps have been observed. The overall amount of the tar-like material seeping has started to increase over the past month as daily high temperatures have increased. Less than 0.2 gallons of the tar-like material was recovered during March 2020, most of which was recovered on March 27, 2020.
- Brown staining with a small amount of standing brown water was observed along asphalt joints and cracks in stalls A108-A111 and B013-B026 (Photographs 19 and 20) during the weekly inspections on March 27, 2020.

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 March 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 me 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*

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/2020-03 march monthly update/houston, tx-wpw-sw-31547 - monthly status update - cap repairs 202003.docx](https://golderassociates.sharepoint.com/sites/116841/project/files/6/deliverables/pracr/tceq%20comment%20letter/2020-03%20march%20monthly%20update/houston,%20tx-wpw-sw-31547-monthly%20status%20update-cap%20repairs%20202003.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	

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

<b>Client Name:</b> Union Pacific Railroad	<b>Site Location:</b> Englewood Houston, Texas	<b>Project No.:</b> 19119232
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<b>Photo No.</b> 1	<b>Date:</b> 03/06/2020
<b>Description:</b>  Slot A010, no tar-like material seeps observed, looking south.  Lat: 29.7855833, Long: -95.318375	



<b>Photo No.</b> 2	<b>Date:</b> 03/06/2020
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<b>Description:</b>  Slot A022, no tar-like material seeps observed, looking south.  Lat: 29.785382 Long: -95.318678	
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# PHOTOGRAPHIC LOG

<b>Client Name:</b> Union Pacific Railroad	<b>Site Location:</b> Englewood Houston, Texas	<b>Project No.:</b> 19119232
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<b>Photo No.</b> 3	<b>Date:</b> 03/06/2020
<b>Description:</b>  Slot B096, very small amount of tar-like material seeping at joint, material was removed.  Lat: 29.7842528 Long: - 95.3206250	



<b>Photo No.</b> 4	<b>Date:</b> 03/06/2020
<b>Description:</b>  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.**  
5

**Date:**  
03/06/2020

**Description:**

Slot B101, no tar-like material seeping observed, looking northeast.

Lat: 29.784275  
Long: - 95.320813



**Photo No.**  
6

**Date:**  
03/06/2020

**Description:**

Frac tank for storage of pumped down water from NAPL Collection Sumps (in Slot B110), looking northwest.

Lat: 29.7841028  
Long: - 95.3209833







# PHOTOGRAPHIC LOG

<b>Client Name:</b> Union Pacific Railroad	<b>Site Location:</b> Englewood Houston, Texas	<b>Project No.:</b> 19119232
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<b>Photo No.</b> 7	<b>Date:</b> 03/11/2020
<b>Description:</b>  Slot A022, very small amount of tar-like material seeping at joint, material was removed.  Lat: 29.785382 Long: -95.318678	





<b>Photo No.</b> 8	<b>Date:</b> 03/11/2020
<b>Description:</b>  Slot B096, very small amount of tar-like material seeping at joint, material was removed.  Lat: 29.7842528 Long: -95.3206250	





# PHOTOGRAPHIC LOG

<b>Client Name:</b> Union Pacific Railroad		<b>Site Location:</b> Englewood Houston, Texas	<b>Project No.:</b> 19119232
<b>Photo No.:</b> 9	<b>Date:</b> 03/11/2020		
<b>Description:</b>  Slots B096-B110, NAPL Collection System and frac tank in the background, looking southwest.  Lat: 29.785217 Long: - 95.318261			
<b>Photo No.:</b> 10	<b>Date:</b> 03/11/2020		
<b>Description:</b>  Slot B101, very small amount of tar-like material seeping at crack (eastern side of the slot), material was removed, looking north.  Lat: 29.784275 Long: - 95.320813			



# PHOTOGRAPHIC LOG

<b>Client Name:</b> Union Pacific Railroad	<b>Site Location:</b> Englewood Houston, Texas	<b>Project No.</b> 19119232
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<b>Photo No.</b> 11	<b>Date:</b> 03/11/2020
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**Description:**

Slot B103, very small amount of tar-like material seeping at joint near the NAPL Collection System Sump 103/104, material was removed.

Lat: 29.784219  
Long: - 95.320871



<b>Photo No.</b> 12	<b>Date:</b> 03/11/2020
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**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





# PHOTOGRAPHIC LOG

<b>Client Name:</b> Union Pacific Railroad	<b>Site Location:</b> Englewood Houston, Texas	<b>Project No.</b> 19119232
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<b>Photo No.</b> <b>13</b>	<b>Date:</b> 03/18/2020
<b>Description:</b>  Sump B099/B100, 0 inches of freeboard in sump, no sheen or odors noted.  Lat: 29.7844000 Long: - 95.3205861	



<b>Photo No.</b> <b>14</b>	<b>Date:</b> 03/18/2020
<b>Description:</b>  Sump B103/B104, 35.5 inches of freeboard in sump, no sheen or odors noted.  Lat: 29.7842861 Long: - 95.3208611	





# PHOTOGRAPHIC LOG

<b>Client Name:</b> Union Pacific Railroad	<b>Site Location:</b> Englewood Houston, Texas	<b>Project No.</b> 19119232
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<b>Photo No.</b> <b>15</b>	<b>Date:</b> 03/18/2020
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**Description:**

Slot B013, no tar-like material seeps observed, looking north.

Lat: 29.785217  
Long: - 95.318261



<b>Photo No.</b> <b>16</b>	<b>Date:</b> 03/18/2020
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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





# PHOTOGRAPHIC LOG

<b>Client Name:</b> Union Pacific Railroad	<b>Site Location:</b> Englewood Houston, Texas	<b>Project No.</b> 19119232
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<b>Photo No.</b> 17	<b>Date:</b> 03/18/2020
<b>Description:</b>  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	



<b>Photo No.</b> 18	<b>Date:</b> 03/18/2020
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<b>Description:</b>  Sump B107/B108, approx. 35.5 inches of freeboard in sump, no sheen or odors noted. No tar-like material noted.  Lat: 29.7842861 Long: - 95.3208611	
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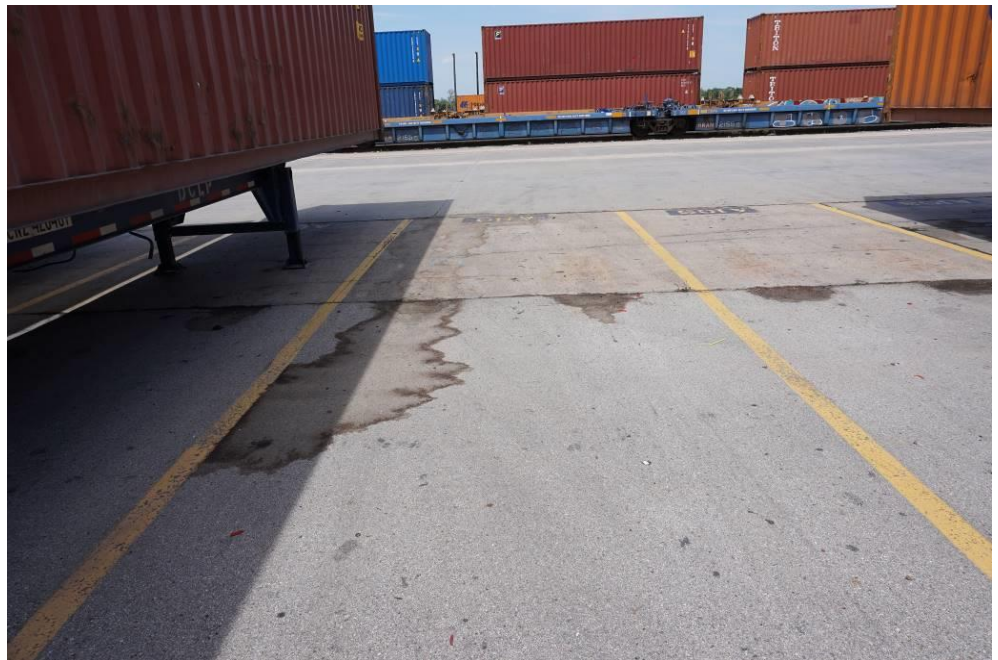
# PHOTOGRAPHIC LOG

<b>Client Name:</b> Union Pacific Railroad	<b>Site Location:</b> Englewood Houston, Texas	<b>Project No.:</b> 19119232
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<b>Photo No.</b> <b>19</b>	<b>Date:</b> 03/27/2020
<b>Description:</b>  Slot B113-B026, brown staining and brown water observed in asphalt cracks, looking west.  Lat: 29.785217 Long: - 95.318261	



<b>Photo No.</b> <b>20</b>	<b>Date:</b> 03/27/2020
<b>Description:</b>  Slot A110, brown staining and brown water observed along asphalt joint, looking north.  Lat: 29.784304 Long: -95.321166	





# PHOTOGRAPHIC LOG

<b>Client Name:</b> Union Pacific Railroad	<b>Site Location:</b> Englewood Houston, Texas	<b>Project No.</b> 19119232
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<b>Photo No.</b> <b>21</b>	<b>Date:</b> 03/27/2020
<b>Description</b>  Slot B096, small amount of tar-like material seeping at joint, material was removed.  Lat: 29.7842528 Long: - 95.3206250	



<b>Photo No.</b> <b>22</b>	<b>Date:</b> 03/27/2020
<b>Description:</b>  Slot B102, small amount of tar-like material seeping at joint, material was removed.  Lat: 29.7842203 Long: - 95.320827	







# PHOTOGRAPHIC LOG

<b>Client Name:</b> Union Pacific Railroad	<b>Site Location:</b> Englewood Houston, Texas	<b>Project No.:</b> 19119232
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<b>Photo No.</b> <b>23</b>	<b>Date:</b> 03/27/2020
<b>Description:</b>  Slot B105, no tar-like material seeps observed, looking north.  Lat: 29.7841472 Long: - 95.3208777	



<b>Photo No.</b> <b>24</b>	<b>Date:</b> 03/27/2020
<b>Description:</b>  Slot B108, view of NAPL Collection System (Sump 107/108 in background). Very small amount of tar-like material seeping at asphalt crack near center of the slot, material was removed, looking north.  Lat: 29.784125 Long: - 95.320989	

