



October 20, 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 September 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.

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 September 2020 (photographs from the weekly inspections are provided in Attachment A):

- During the month of September, no significant amount of tar-like NAPL (DNAPL) has been visually observed or recovered from Sump 1 (B099/B100 slots), Sump 2 (B103/B104 slots), or Sump 3 (B107/B108 slots). 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 in March 2020.
- Water continues to collect more rapidly in Sump 1 compared to Sumps 2 or 3 following pump down events. All three Sumps were pumped down on September 1, 2020. Water pumped from the sumps was transferred into the on-site frac tank near slot B109. After pumping, the water level in Sump 1 returned to the surface by the September 15<sup>th</sup> weekly inspection and has remained at the top of the sump through September 30, 2020. In contrast the water levels in Sumps 2 and 3 have recovered to

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Golder Associates Inc.  
2201 Double Creek Dr, Suite 4004, Round Rock, Texas, USA 78664

T: +1 512 671-3434 F: +1 512 671-3446

10 inches and 9 inches below the top of the sumps, respectively, as of September 30, 2020. The water in Sumps 1, 2, and 3 was observed as being brown in color. A sheen was reported on the water in Sumps 1 and 3 on the September 2<sup>nd</sup> weekly inspection and again in Sump 3 on the September 9<sup>th</sup> inspection. Odor was not noted during the inspections in the month of September.

- A small amount of tar-like NAPL was observed seeping at a joint immediately adjacent to the NAPL Collection System in slot B103 on September 15, 2020 (see photolog, Photo No. 20). No other seeps were observed within the NAPL Collection System area. For areas outside the NAPL Collection System, very small amounts of tar-like material were noted on the concrete surface in stalls A022, B057, B101, B102, and B105 where previous seeps have been observed. The overall amount of material recovered during September 2020 was similar to August 2020 with a total of less than 1 gallon of the tar-like material recovered.
- Beginning in May 2020, brown staining and seep water were observed along asphalt joints and cracks throughout the B-Row (predominately in the B090 – B098 area) but were also observed within the A-Row. Through June and July 2020 no wide-spread seep water was observed during the weekly inspections. During the inspection on August 26, 2020, brown staining and standing brown water was observed in the B099-B110 slots along with adjacent slots in the A-Row. Some of the water may have been from a recent rainfall event. UPRR Contractor United States Environmental Services (USES) pressure washed the stained areas on September 1, 2020 and collected 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. No wide-spread seep water was observed during the September 2020 inspections. UPRR will continue to have USES pressure wash the areas where the brown staining and seeps are observed as needed.
- During the week of July 13, 2020, Golder, on behalf of UPRR, coordinated with USES to excavate seven test pits in areas where historical NAPL seeps (Slots A010, A021, A098, B013, B057, B096, and B108) had been observed in the Englewood Intermodal Yard. During the September 2020 weekly inspections, no NAPL seeps have been observed at the test pit locations. The NAPL seep mentioned above at Slot B057 is outside of the test pit area conducted in Slot B057. The test pit locations will continue to be inspected on a weekly basis and Golder, on behalf of UPRR, will prepare a summary report of the test pit findings including weekly inspections for submittal to the TCEQ.
- During the September 30, 2020 weekly inspection, oil staining and absorbents (sand and litter) were noted in the A-Row (predominately in slots A008-A016). UPRR confirmed that the staining was from hydraulic oil from maintenance activities on a container crane and not related to the NAPL or water seeps. USES was called out to the site on October 1, 2020 and added more absorbents to collect the residual oil. USES then removed the absorbents from the site. Photos of the staining observed during the September 30<sup>th</sup> inspection as well as photos from after USES's site visit are included in the photolog (Photos No. 33, 34, 39, and 40).

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, 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. Through September 2020, no measurable NAPL has been detected 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/2020-09 september monthly update/houston, tx-wpw-sw7r 31547 - monthly status update - cap repairs 202009 draft.docx](https://golderassociates.sharepoint.com/sites/116841/project%20files/6%20deliverables/pracr/tceq%20comment%20letter/2020-09%20september%20monthly%20update/houston,tx-wpw-sw7r%2031547%20-%20monthly%20status%20update%20-%20cap%20repairs%20202009%20draft.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 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	

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> 09/02/2020
<b>Description:</b>  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	



<b>Photo No.</b> 2	<b>Date:</b> 09/02/2020
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<b>Description:</b>  Slot A021, no tar-like material seeps observed where test pit (July 2020) conducted, looking south.  Lat: 29.785392, Long: -95.318655	
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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> 09/02/2020
<b>Description:</b>  Slot B057, small amount of tar-like material seeping at asphalt crack (not near test pit), material was removed.  Lat: 29.7847472 Long: - 95.3195417	



<b>Photo No.</b> 4	<b>Date:</b> 09/02/2020
<b>Description:</b>  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

**Photo No.**  
**5**

**Date:**  
09/02/2020

**Description:**

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

Lat: 29.7842203  
Long: - 95.320827



**Photo No.**  
**6**

**Date:**  
09/02/2020

**Description:**

Slot B102, 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

**Photo No.**  
7

**Date:**  
09/02/2020

**Description:**

Slot B108, view of NAPL Collection System (Sump B107/B108 and test pit in background). No tar-like material seeps observed, looking north.

Lat: 29.784125  
Long: - 95.320989



**Photo No.**  
8

**Date:**  
09/02/2020

**Description:**

Sump 1 (B099/B100), 43 inches of freeboard in sump, sheen visible on water, no odors noted.

Lat: 29.7844000  
Long: - 95.3205861





**Client Name:**  
**Union Pacific Railroad**

**Site Location:**  
Englewood Houston, Texas

**Project No.**  
19119232

**Photo No.**  
**9**

**Date:**  
09/09/2020

**Description:**

Slot A010, no tar-like material seeps observed where test pit (July 2020) conducted, looking south.

Lat: 29.7855833,  
Long: -95.318375



**Photo No.**  
**10**

**Date:**  
09/09/2020

**Description:**

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

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> 11	<b>Date:</b> 09/09/2020		
<b>Description:</b>  Slots B097-B110, NAPL collection system visible in background, residual brown staining observed along the crack in the asphalt, looking west.  Lat: 29.784236 Long: -95.320642			
<b>Photo No.:</b> 12	<b>Date:</b> 09/09/2020		
<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

**Client Name:**  
Union Pacific Railroad

**Site Location:**  
Englewood Houston, Texas

**Project No.**  
19119232

**Photo No.**  
13

**Date:**  
09/09/2020

**Description:**

Slot B103, 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.**  
14

**Date:**  
09/09/2020

**Description:**

Sump 2 (B103/B104), 37 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.**  
**15**

**Date:**  
09/09/2020

**Description:**

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

Lat: 29.7841472  
Long: - 95.3208777



**Photo No.**  
**16**

**Date:**  
09/09/2020

**Description:**

Sump 3 (B107/B108), 36 inches of freeboard in sump. Sheen visible on water, no odor or tar-like material observed.

Lat: 29.7842861  
Long: - 95.3208611







**Client Name:**  
**Union Pacific Railroad**

**Site Location:**  
Englewood Houston, Texas

**Project No.**  
19119232

**Photo No.**  
**17**

**Date:**  
09/15/2020

**Description:**

Slot A022, small amount of tar-like material seeping at joint, material was removed.

Lat: 29.785392,  
Long: -95.318655



**Photo No.**  
**18**

**Date:**  
09/15/2020

**Description:**

Slot B057, small amount of tar-like material seeping at asphalt crack, material was removed.

Lat: 29.7847472  
Long: - 95.3195417







# PHOTOGRAPHIC LOG

**Client Name:**  
**Union Pacific Railroad**

**Site Location:**  
Englewood Houston, Texas

**Project No.**  
19119232

**Photo No.**  
**19**

**Date:**  
09/15/2020

**Description:**

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

Lat: 29.784275  
Long: - 95.320813



**Photo No.**  
**20**

**Date:**  
09/15/2020

**Description:**

Slot B103, very small amount of tar-like material seeping at joint. Material was removed.

Lat: 29.7841639  
Long: - 95.3208694







# PHOTOGRAPHIC LOG

**Client Name:**  
Union Pacific Railroad

**Site Location:**  
Englewood Houston, Texas

**Project No.**  
19119232

**Photo No.**  
**21**

**Date:**  
09/15/2020

**Description:**

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

Lat: 29.7844000  
Long: - 95.3205861



**Photo No.**  
**22**

**Date:**  
09/15/2020

**Description:**

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

Lat: 29.7841472  
Long: - 95.3208777







# PHOTOGRAPHIC LOG

**Client Name:**  
Union Pacific Railroad

**Site Location:**  
Englewood Houston, Texas

**Project No.**  
19119232

**Photo No.**  
**23**

**Date:**  
09/15/2020

**Description:**

Slot B108, view of NAPL Collection System (Sump 3 (B107B/108) and test pit in background). No tar-like material seeps observed, looking north.

Lat: 29.784125  
Long: - 95.320989



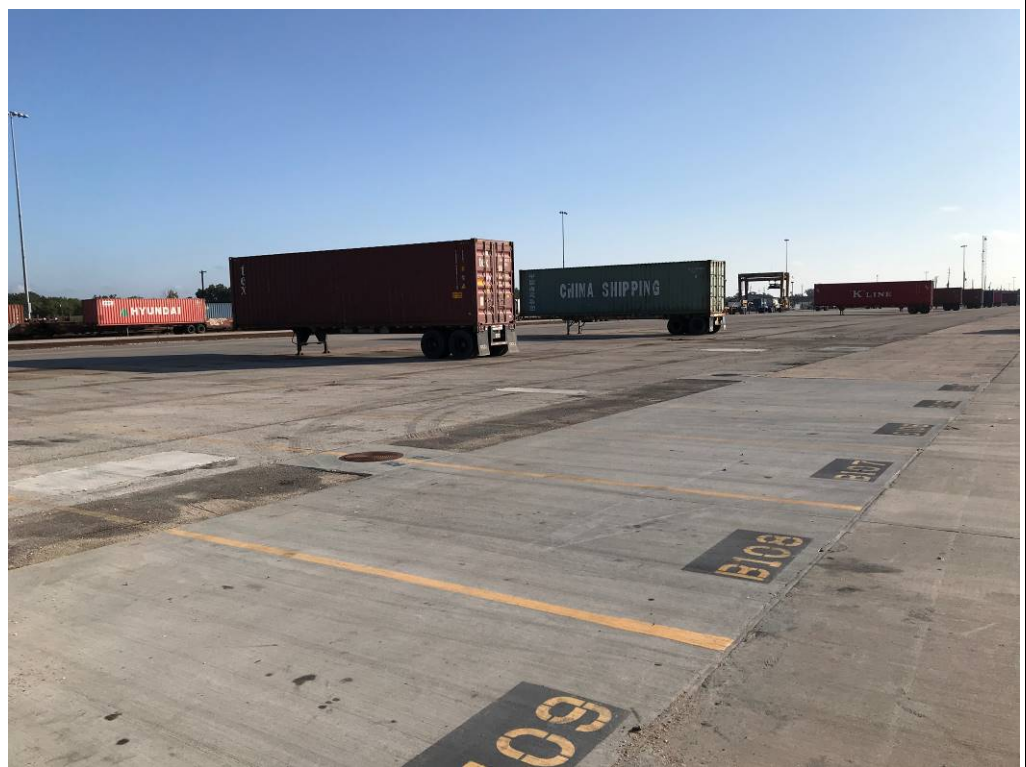
**Photo No.**  
**24**

**Date:**  
09/15/2020

**Description:**

Slots B109-B097, NAPL collection system visible in background, residual brown staining observed along the crack in the asphalt, looking northeast.

Lat: 29.784116  
Long: -95.321022







# 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> 25	<b>Date:</b> 09/23/2020		
<b>Description:</b>  Slot A021, no tar-like material seeps observed where test pit (July 2020) conducted, water on pavement from recent rain event, looking south.  Lat: 29.785392, Long: -95.318655			
<b>Photo No.:</b> 26	<b>Date:</b> 09/23/2020		
<b>Description:</b>  Slot B013, no tar-like material seeps observed where test pit (July 2020) conducted, water on pavement from recent rain event, looking north.  Lat: 29.785217 Long: - 95.318261			





# PHOTOGRAPHIC LOG

**Client Name:**  
**Union Pacific Railroad**

**Site Location:**  
Englewood Houston, Texas

**Project No.**  
19119232

**Photo No.**  
**27**

**Date:**  
09/23/2020

**Description:**

Slot B100, view of NAPL Collection System (Sump 099/100 in background). Water on pavement from recent rainfall event. No tar-like material seeps observed, looking north.

Lat: 29.7842472  
Long: - 95.3206944



**Photo No.**  
**28**

**Date:**  
09/23/2020

**Description:**

Slot B057, small amount of tar-like material seeping at asphalt crack, material was removed.

Lat: 29.7847472  
Long: - 95.3195417







# PHOTOGRAPHIC LOG

**Client Name:**  
Union Pacific Railroad

**Site Location:**  
Englewood Houston, Texas

**Project No.**  
19119232

**Photo No.**  
**29**

**Date:**  
09/23/2020

**Description:**

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

Lat: 29.784275  
Long: - 95.320813



**Photo No.**  
**30**

**Date:**  
09/23/2020

**Description:**

Slot B102, small amount of tar-like material seeping at joint, water in joint from recent rain event, material was removed.

Lat: 29.7842203  
Long: - 95.320827







# PHOTOGRAPHIC LOG

**Client Name:**  
Union Pacific Railroad

**Site Location:**  
Englewood Houston, Texas

**Project No.**  
19119232

**Photo No.**  
31

**Date:**  
09/23/2020

**Description:**

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

Lat: 29.7841472  
Long: - 95.3208777



**Photo No.**  
32

**Date:**  
09/23/2020

**Description:**

Sump 3 (B107/B108), 0 inches of freeboard in sump. No sheen, odor, or tar-like material observed.

Lat: 29.7842861  
Long: - 95.3208611







# PHOTOGRAPHIC LOG

**Client Name:**  
**Union Pacific Railroad**

**Site Location:**  
Englewood Houston, Texas

**Project No.**  
19119232

**Photo No.**  
**33**

**Date:**  
09/30/2020

**Description:**

Slot A008-A015, cleanup of a hydraulic oil spill from a container crane in progress, UPRR Contractor United States Environmental Services (USES) was called out for further clean up, no tar-like material observed where test pit (July 2020) conducted, looking southwest

Lat: 29.785543  
Long: -95.318295



**Photo No.**  
**34**

**Date:**  
09/30/2020

**Description:**

Slot A015-A008, cleanup of a hydraulic oil spill from a container crane in progress, no tar-like material seeping observed, looking southeast.

Lat: 29.785461  
Long: -95.318506







# PHOTOGRAPHIC LOG

**Client Name:**  
Union Pacific Railroad

**Site Location:**  
Englewood Houston, Texas

**Project No.**  
19119232

**Photo No.**  
**35**

**Date:**  
09/30/2020

**Description:**

Slot B057, very small amount of tar-like material seeping at asphalt crack, material was removed.

Lat: 29.7847472  
Long: - 95.3195417



**Photo No.**  
**36**

**Date:**  
09/30/2020

**Description:**

Slot B102, 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

**Photo No.**  
**37**

**Date:**  
09/30/2020

**Description:**

Slot B105, no tar-like material seeps observed, looking north.

Lat: 29.7841472  
Long: - 95.3208777



**Photo No.**  
**38**

**Date:**  
09/30/2020

**Description:**

Sump 2 (B103/B104), 10 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> 39	<b>Date:</b> 10/02/2020
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**Description:**

Slot A009, After USES cleanup (10/1/2020) of the hydraulic oil spill from a container crane, looking south.

Lat: 29.785543  
Long: -95.318295



<b>Photo No.</b> 40	<b>Date:</b> 10/02/2020
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**Description:**

Slot A015, After USES cleanup (10/1/2020) of the hydraulic oil spill from a container crane, looking south.

Lat: 29.785461  
Long: -95.318506

