

December 10, 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 November 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 November 2020 (photographs from the weekly inspections are provided in Attachment A):

- No significant amount of NAPL has been visually observed or recovered from Sump 1 (B099/B100 slots), Sump 2 (B103/B104 slots), or Sump 3 (B107/B108 slots) during the month of November. Water continues to accumulate in the NAPL collection sumps.
- All three Sumps were last pumped down on September 1, 2020 and the recovered water is stored in the on-site frac tank. Water levels in Sumps 1, 2, and 3 fluctuated in November, decreasing from their October 2020 levels to 7, 14, and 13.5 inches from the top of the sumps, respectively, by November 24, 2020 and recovering to 2, 7 and 6 inches from the top of the sumps, respectively, by November 30, 2020. The water in Sumps 1, 2, and 3 was observed as being brown in color. No sheen or odor was reported during the inspections in the month of November.

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- No tar-like NAPL seeps were observed within the NAPL Collection System area during the month of November. For areas outside the NAPL Collection System, very small amounts of tar-like material were occasionally noted on the concrete surface in stalls A022, B057, B101, and B102 where previous seeps have been observed. The overall amount of material recovered during November 2020 decreased from October 2020 with a total of less than 0.5 gallons of the tar-like material recovered in November.
- No seep water was observed in the paved areas during the November 2020 inspections. UPRR will
 continue to have USES pressure wash the areas where the brown staining and seeps are observed as
 needed. Recovered wash water stored in a tote from previous events was removed from site by UPRR
 contractor NRC on November 30, 2020 and taken to Seabreeze Landfill for disposal. The final
 manifests will be provided in the December monthly update.
- 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 November 2020 weekly inspections, no NAPL seeps have been observed at the test pit locations. The NAPL noted 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 following the pilot test period specified in the Response Action Plan (RAP) (August 31, 2020) (January 2021).

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. No measurable NAPL has been detected in the sumps using the interface probe through November 2020.

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

- 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



TABLE

TABLE 1 NAPL Measurements - NAPL Collection System - Englewood Intermodal Yard UPRR Houston, tx - Wood Preserving Works

	Sump 1	Sump 2	Sump 3		
Measured	(B099/B100)	(B103/B104)	(B107/B108)	Depth to DNAPL	
Date	Freeboard (in)	Freeboard (in)	Freeboard (in)	(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
					Sheen visible in B107/B108 sump, less than 0.1 gal of
10/2/2019	2.5	42.5	42	Not measurable	DNAPL recovered
					Sheen visible in B107/B108 sump, less than 0.1 gal of
10/9/2019	3	42	41.5	Not measurable	DNAPL recovered
10/16/2019	0	39.5	39	Not measurable	Less than 0.1 gal of DNAPL recovered from B107/B108
10/24/2019	3	35	25	Not measurable	Less than 0.1 gal of DNAPL recovered from B107/B108
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
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
12/11/2019	1.5	17	16.54	Not measurable	Less than 0.1 gal of DNAPL recovered from B107/B108
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	
					Measurements were not taken; the inspector was
5/4/2020	-	-	-	Not Measured	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
_, .					Sheen visible in B99/B100 sump & B107/B108 sump,
7/15/2020	32	29.5	29	Not measurable	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
7/31/2020	0	11	10	Not measurable	

TABLE 1 NAPL Measurements - NAPL Collection System - Englewood Intermodal Yard UPRR Houston, tx - Wood Preserving Works

	Sump 1	Sump 2	Sump 3		
Measured	(B099/B100)	(B103/B104)	(B107/B108)	Depth to DNAPL	
Date	Freeboard (in)	Freeboard (in)	Freeboard (in)	(in)	Comments
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	
					Sumps 1, 2, & 3 pumped down (September 1); Sheen
9/2/2020	43	37	38	Not measurable	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
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	

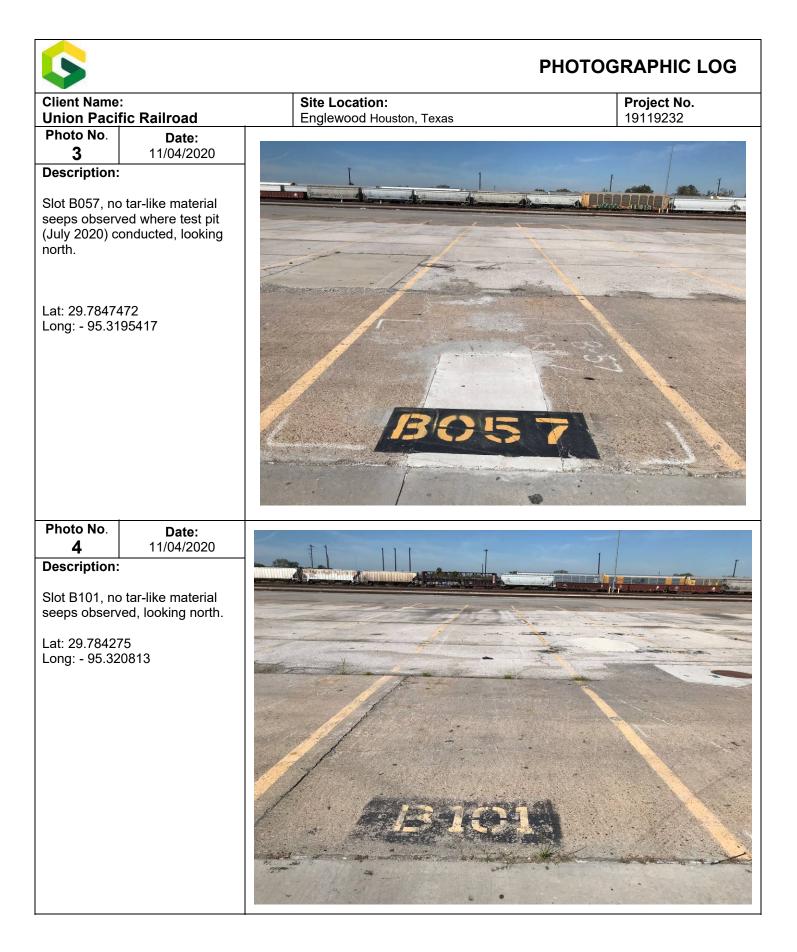
Note:

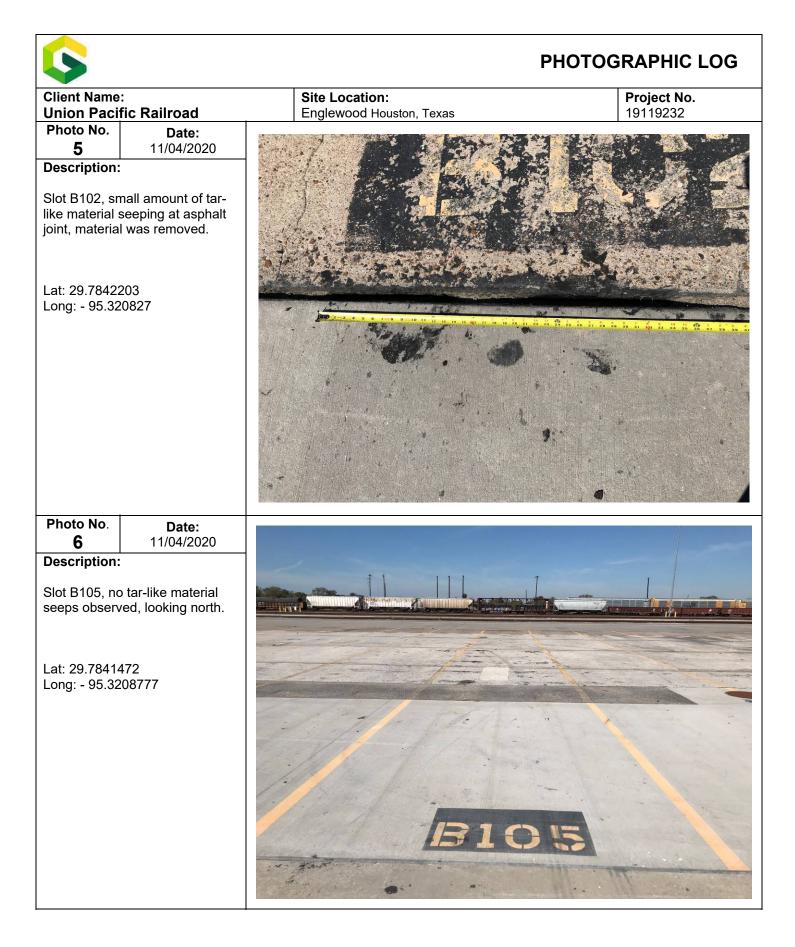
Freeboard in sumps is measured as depth to water from top rim of sump, measured in inches

ATTACHMENT A

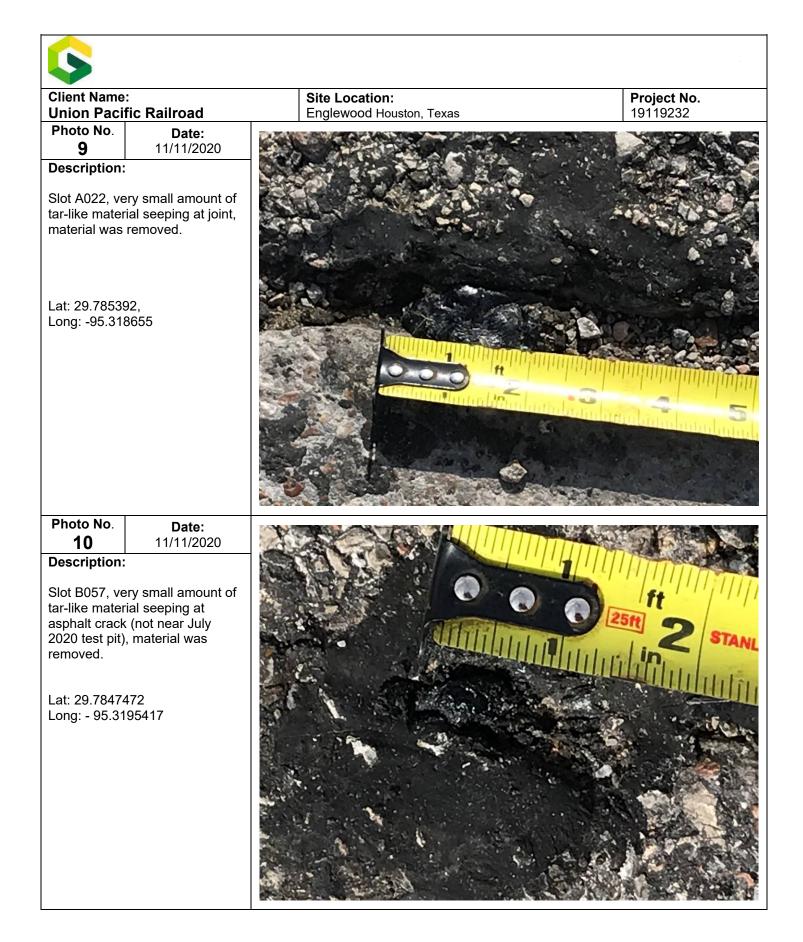
Weekly Inspection Photolog

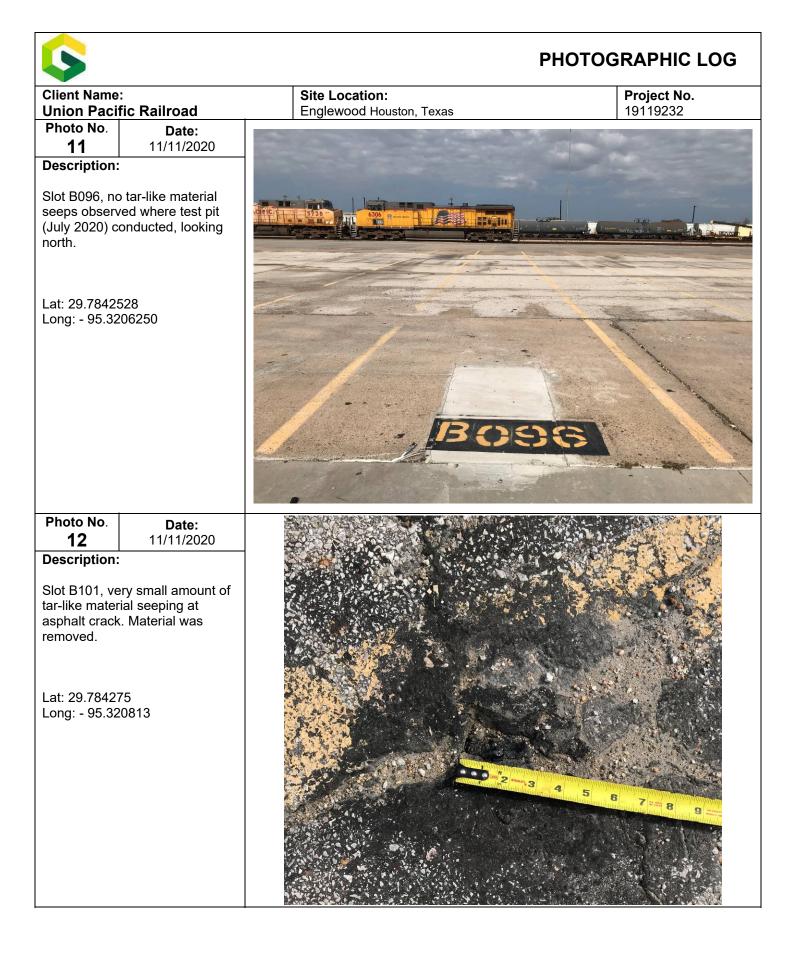


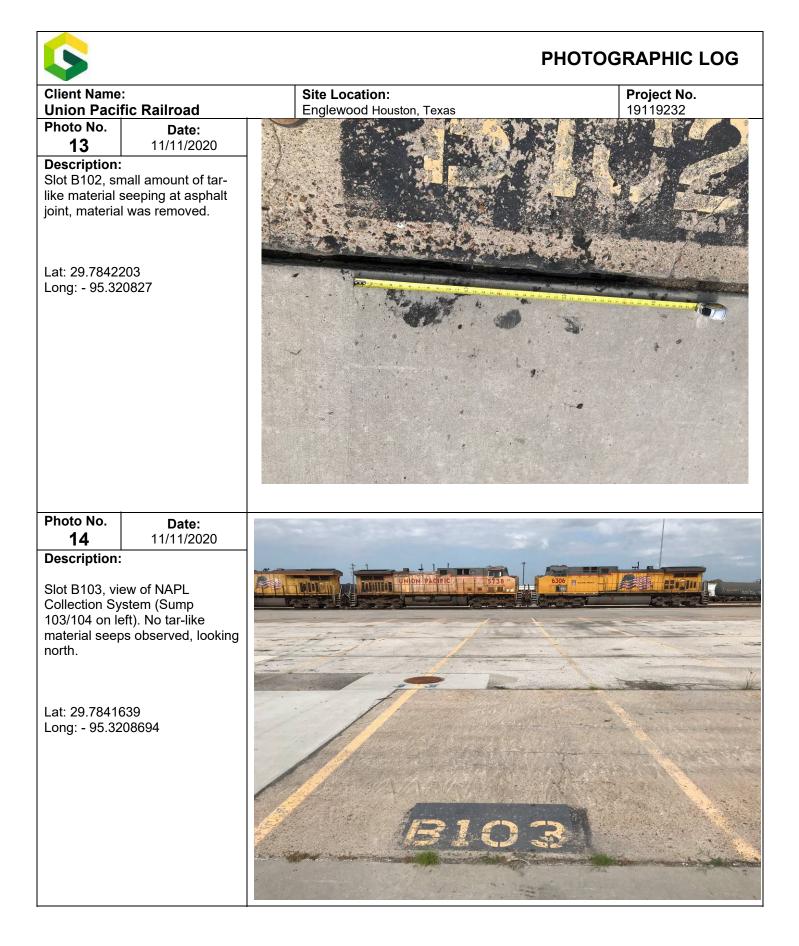


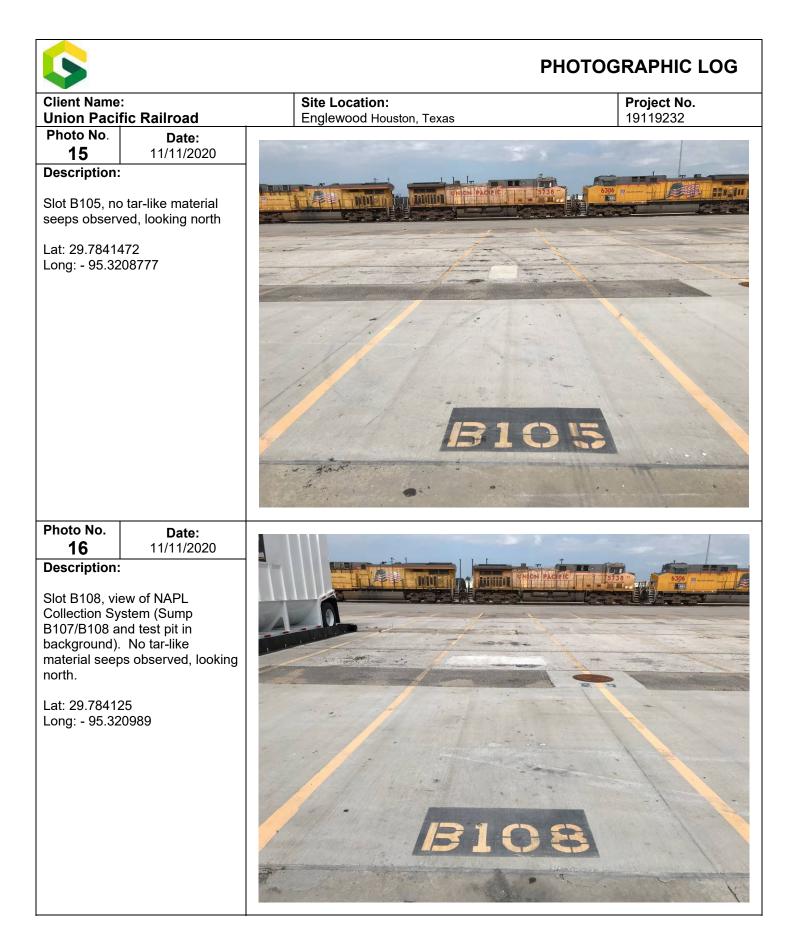


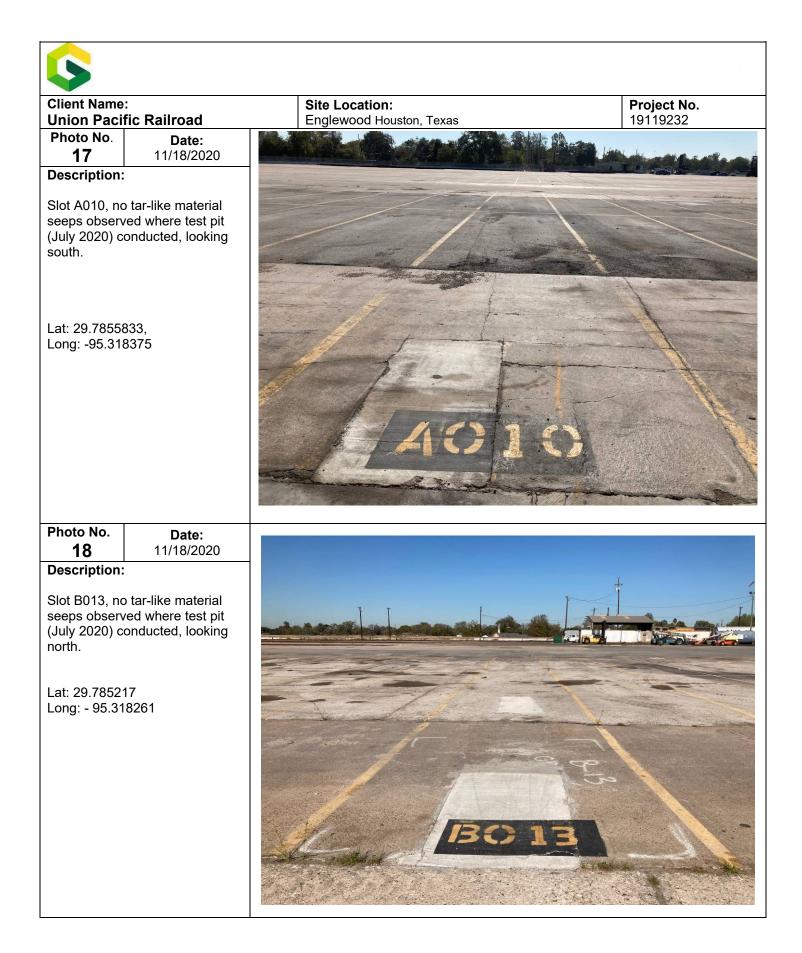




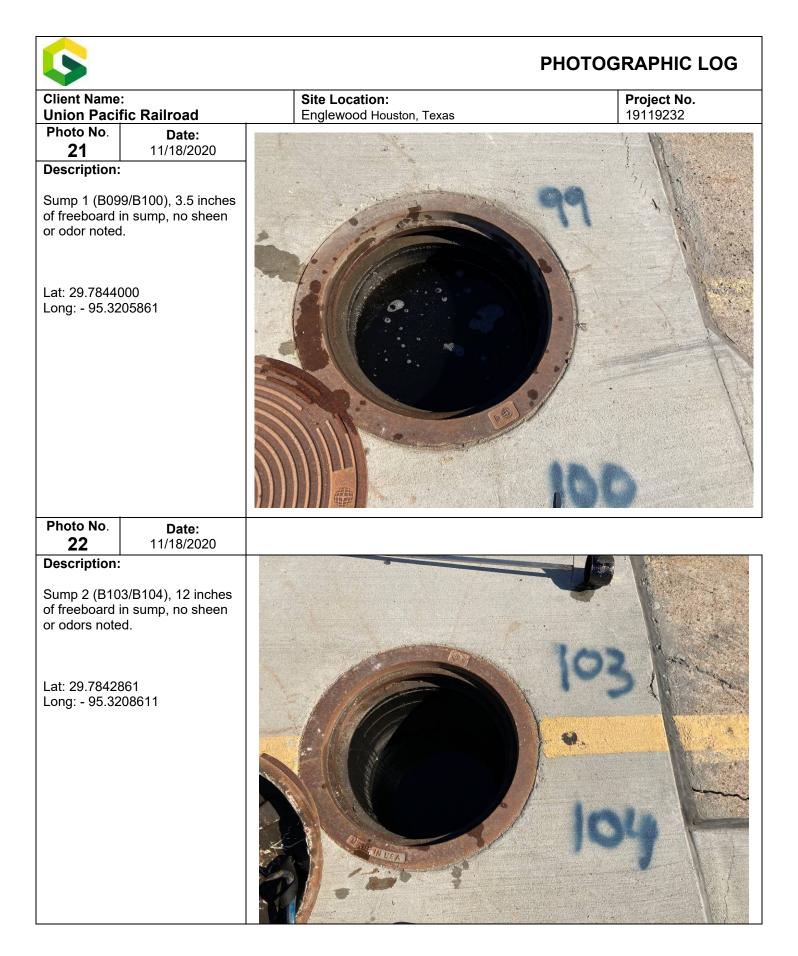




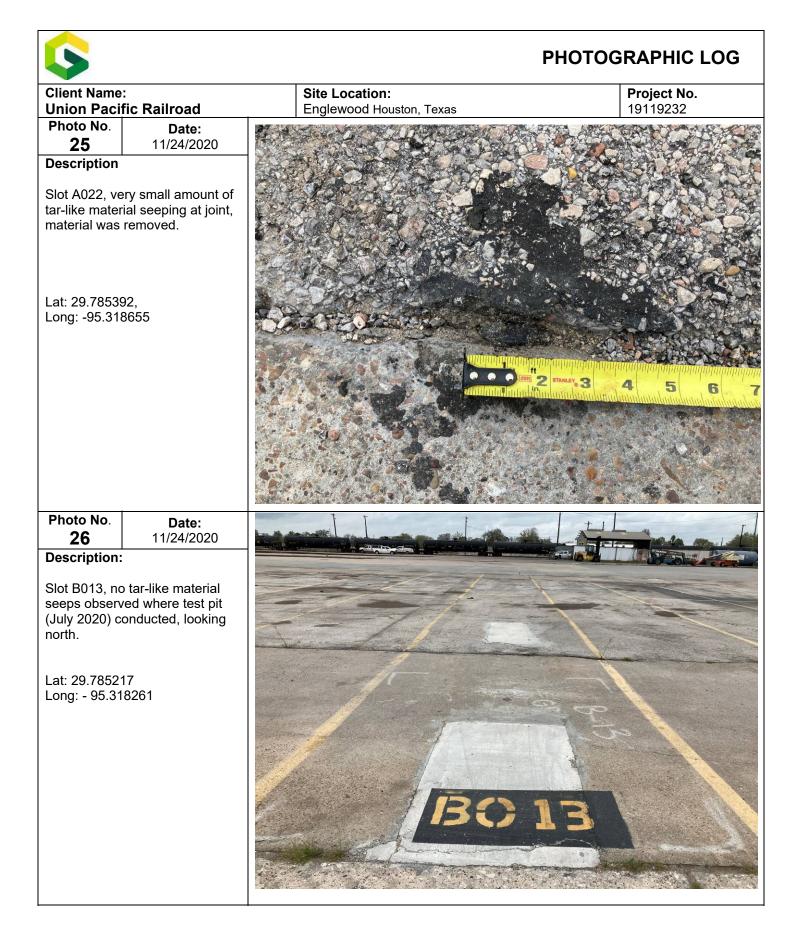


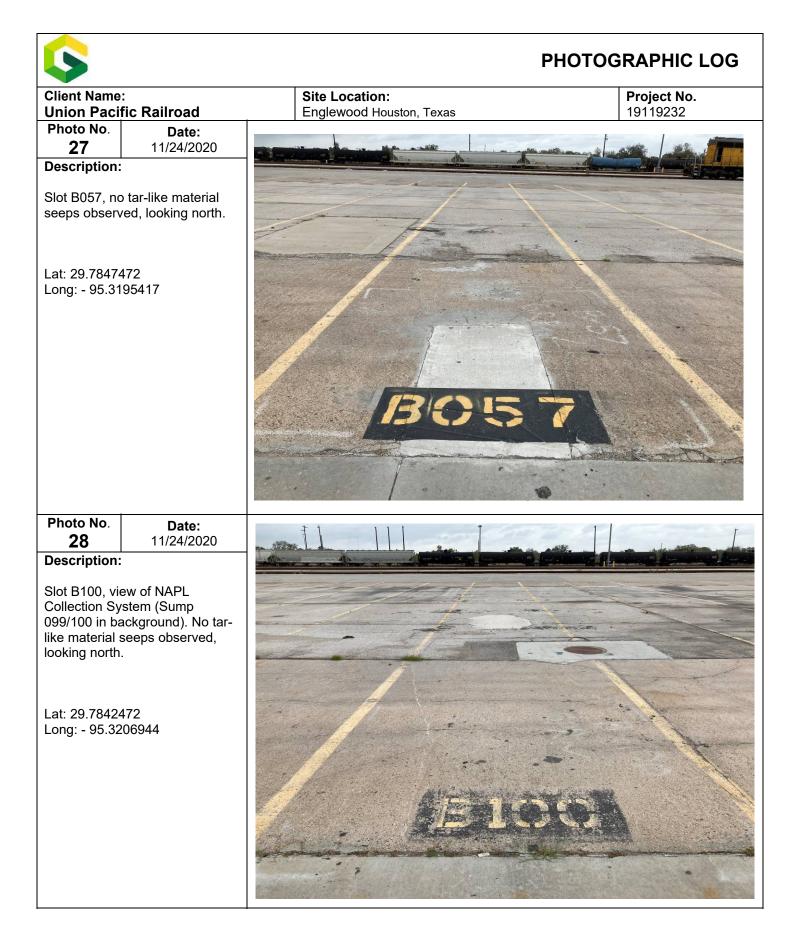














PHOTOGRAPHIC LOG

Client Name:		Site Location:	Project No.
Union Pacific Railroad		Englewood Houston, Texas	19119232
Photo No.	Date:		
29	11/24/2020		
Description:		ŧ1 111 t	
Slot B101, no tar-like material seeps observed, looking north.			
Lat: 29.784275 Long: - 95.320813			
Photo No. 30	Date: 11/24/2020		
			the state of the s
Description: Slot B102, ve tar-like mater material was	ry small amount of ial seeping at joint,		
Lat: 29.78422			- All and a
Long: - 95.32	0827		



PHOTOGRAPHIC LOG

Client Name: Union Pacific Railroad	Site Location: Englewood Houston, Texas	Project No. 19119232	
Photo No. Date: 31 11/24/2020		1. 1. 1. S. 1. S.	
Description:		P. P	
Slots B096-B109, NAPL collection system visible in background, residual brown staining observed along the crack in the asphalt, looking northwest. Lat: 29.7842528 Long: - 95.3206250			
Photo No. Date: 32 11/24/2020			
Description:			
Sump 3 (B107/B108), 13.5 inches of freeboard in sump. No sheen, odor, or tar-like material observed. Lat: 29.7842861 Long: - 95.3208611		107	

