

February 12, 2021

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 January 2021 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 in January 2019 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 January 2021 (photographs from the weekly inspections are provided in Attachment A):

- No NAPL was 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 January. Water continues to accumulate in the NAPL collection sumps.
- All three sumps were pumped down on January 15, 2021 and the recovered water was transferred to the on-site frac tank. After pumping, the water level in Sump 1 returned to the surface by the January 22nd weekly inspection and has remained near the top of the sump through January 29, 2021. In contrast the water levels in Sumps 2 and 3 have recovered to 31 inches and 30 inches below the top of the sumps, respectively, as of January 29, 2021. The water in Sumps 1, 2, and 3 was observed as being brown in color. A sheen was reported on the water in Sump 3 during the weekly inspection on January 29<sup>th</sup>. No odor was reported during the inspections in the month of

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January. The water stored in the frac tank was pumped out by UPRR Contractor National Response Corporation (NRC) on January 15 and January 16, 2021 and transported for disposal at Liquid Environmental Solutions using the waste profile created in February 2020. The final waste manifests for the disposal of the fluid will be provided with the February 2021 monthly update.

- The sumps will no longer be pumped down periodically as there has been no increase in the amount of DNAPL recovered in the sumps since the pump downs were initiated in 2019. The frac tank staged at the Site was removed on January 29, 2021.
- No tar-like NAPL seeps were observed within the NAPL Collection System area during the month of January. For areas outside the NAPL Collection System, a very small amount of tar-like material was observed on the concrete surface once in stalls A022 and B101 during the January 29, 2021 inspection. The overall amount of tar-like material removed from the concrete surface during January 2021 was less than 0.1 gallons.
- No widespread seep water was observed in the paved areas during the January 2021 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 (IM) Yard. During the January 2021 weekly inspections, no NAPL seeps have been observed at the test pit locations. The test pit locations will continue to be inspected on a weekly basis, and Golder, on behalf of UPRR, will prepare the Englewood IM Yard Test Pit Evaluation Report of the test pit findings including weekly inspections for submittal to the TCEQ following the pilot test period as specified in the Initial Draft Permit.
- As indicated in the December 2020 monthly status update, a camera survey was performed on the storm sewer pipes in the Intermodal Yard as part of the Englewood IM Yard Test Pit Evaluation on December 8, 2020. The camera was unable to advance the full length of several drainpipes due to build-up of sediments and deposits (e.g., mud) within the drainpipes. Golder, on behalf of UPRR, coordinated with USES to remove the obstructions within sections of the storm system on December 21 and 22, 2020. Water and material from the obstruction removal effort were placed in two vacuum boxes and stored onsite in stalls C129 and C131 (Photo 34). Used booms from the obstruction removal effort were placed in a 55-gallon drum and stored onsite with the vacuum boxes. Another camera survey was performed on January 8, 2021. The camera was able to advance the full length and/or further than previously in some drainpipes. However, some of the drainpipes still had mud buildup that prevented the camera from advancing the full length of the pipes. Another obstruction removal event is being scheduled for February 2021. Details on the camera and obstruction removal activities will be provided in the Englewood IM Yard Test Pit Evaluation Report indicated above.
- During the last week of January, a second frac tank was staged at parking slot B109 (Photo 33) and a vacuum box was staged near stalls C129 and C131 (Photo 34) containing waste from UPRR activities not related to the Site. These wastes will be disposed of in accordance with state and federal regulations.

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 January 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 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 1NAPL Measurements - NAPL Collection System - Englewood Intermodal YardUPRR Houston, tx - Wood Preserving Works

Measure Date(Bio3/2ico)(Bio3/2ico)Commets81/4/20192.52.8.90Not messurable61/2/201902.752.65Not messurable61/2/20191.94.45.90Not messurable61/2/20191.94.424.5Not messurable91/2/201903.93.8Not messurable91/2/201903.9Not messurableNot messurable91/2/201903.4.80Not messurable10/2/20192.54.2.5Not messurableNot messurable10/2/20192.54.2.5Not messurableNot messurable10/2/201934.24.1.5Not messurableNot messurable10/2/201933.41.5Not messurableNot messurable10/2/201933.52.5Not messurableNot messurable10/2/201933.52.5Not messurableNot messurable10/2/201902.42.3Not messurableNot messurable10/2/201902.43.9Not messurableNot messurable10/2/201902.42.3Not messurableNot messurable10/2/201902.42.3Not messurableNot messurable10/2/201902.42.5Not messurableNot messurable10/2/201902.42.5Not messurableNot messurable10/2/201902.42.3Not messu						
Date   Freeboard (in)   Freeboard (in)   (in)   Comments     6/14/2019   0.5   3.8   9.0   Not measurable     6/27/2019   0.1   27.5   3.6   Not measurable   Water from sumps pumped out     9/37/2019   0.1   3.2   Not measurable   Water from sumps pumped out     9/37/2019   0.1   3.2   Not measurable   Water from sumps pumped out     9/37/2019   0.1   3.2   Not measurable   Water from sumps pumped out     9/37/2019   0.1   4.2   Not measurable   Water from sumps pumped out     10/1/2019   2.5   4.2.5   Not measurable   DNAPL recovered     10/1/2019   3   4.2   4.1.5   Not measurable   DNAPL recovered     10/1/2019   0   3.0.5   3.0   Not measurable   Sump     10/3/2019   0   4.0   3.0   Not measurable   Sump     10/3/2019   0   2.5   3.0   Not measurable   Sump     10/3/2019   0   2.5   N		Sump 1	Sump 2	Sump 3		
8/14/2019   2.5   2.8   2.9   Not measurable     8/12/0219   0   2.75   2.65   Not measurable     9/12/0219   0   3.95   3.8   Not measurable     9/12/0219   0   3.95   3.8   Not measurable     9/12/0219   0   3.95   3.8   Not measurable     9/12/0219   0   3.25   Not measurable   Mart measurable     9/12/0219   0   4.2   4.25   Not measurable   Sheen visible in B107/B108 sump, less than 0.1 gal of     10/12/0219   2.5   4.2.5   4.1   Not measurable   Sheen visible in B107/B108 sump, less than 0.1 gal of     10/12/0219   3   3.5   2.5   Not measurable   Simp     10/12/0219   3   3.5   2.5   Not measurable   Simp     10/12/0219   0   2.4   2.3   Not measurable   Simp     11/12/0219   0   2.5   2.8   Not measurable   Simp     11/12/0219   1.5   1.7   1.6.54   N		• • •			•	
8/21/2019   0   27.5   26.5   Not messurable     9/3/2019   19   42   41.5   Not messurable     9/3/2019   0   39.5   38   Not messurable     9/3/2019   0   3   2.5   Not messurable     9/3/2019   0   3   2.5   Not messurable     9/3/2019   0   42   42.5   Not messurable     10/2019   2.5   42.5   42   Not messurable     10/2019   3   42   41.5   Not messurable     10/3/2019   3   42   41.5   Not messurable     10/3/2019   3   42   41.5   Not messurable     10/3/2019   0   39.5   Not messurable   Sump     10/3/2019   0   24   23   Not messurable   Sump     10/3/20203   0   40   39   Not messurable   Sump     11/3/2019   7   30   25   Not messurable   Sump     11/3/2019						Comments
8/28/2019   44.5   Att measurable   Water from sumps pumped out     9/1/2019   0   39.5   38   Not measurable     9/1/2019   0   3   2.5   Not measurable     9/1/2019   0   42   42.5   Not measurable   Sheen visible in B107/B108 sump, less than 0.1 gal of D1/2010 sump, less than 0.1 gal						
9/4/2019   19   42   41.5   Not messurable     9/3/2019   0   39.5   38   Not messurable     9/2/2019   0   42   42.5   Not messurable     9/2/2019   0   42   42.5   Not messurable     9/2/2019   0   42   42.5   Not messurable     10/2/2019   2.5   42.5   42   Not messurable     10/2/2019   3   42   41.5   Not messurable   Sheen visible in B107/B108 sump, less than 0.1 gal of DNAPL recovered from B107/B108     10/2/2019   0   39.5   39   Not messurable   Sump     10/2/2019   0   24   23   Not messurable   Sump     10/2/2019   0   40   39   Not messurable   Sump     11/3/2019   7   30   29   Not messurable   Sump     11/3/2019   7   30   29   Not messurable   Sump     11/3/2019   2   25.5   Not messurable   Sump     12/3/2019 <td></td> <td><u> </u></td> <td></td> <td></td> <td></td> <td></td>		<u> </u>				
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11/27/2019   0   25   23   Not measurable   Less than 0.1 gal of DNAPL recovered from B107/B108     12/3/2019   2   25.5   25   Not measurable   Sump     12/11/2019   1.5   17   16.54   Not measurable   Sump     12/11/2019   5   19.5   17.5   Not measurable   Sump     12/17/2019   0   21   20.5   Not measurable   Sump     12/17/2019   0   21   20.5   Not measurable   Not measurable     11/7/2020   9   13   12.5   Not measurable   Not measurable     11/17/2020   0   32   31.5   Not measurable   Not measurable     12/4/2020   0   0   0   Not measurable   Not measurable     2/12/2020   1   10.5   Not measurable   Not measurable     2/12/2020   1   10.5   Not measurable   Not measurable     2/12/2020   1   36   36   Not measurable     3/11/2020   2   <						
12/3/2019   2   25.5   25   Not measurable   Sump     12/11/2019   1.5   17   16.54   Not measurable   Sump     12/11/2019   1.5   17.5   17.5   Not measurable   Sump     12/17/2019   5   19.5   17.5   Not measurable   Sump     12/17/2020   9   13   12.5   Not measurable   Water from sumps pumped out     1/1/2020   9   13   12.5   Not measurable   Water from sumps pumped out     1/1/2020   0.32   31.5   Not measurable   Mater from sumps pumped out   1/1/2020     1/1/2020   2.5   26.5   26   Not measurable   1/2/2/202   1   1   1.0     2/14/2020   0   0   0   Not measurable   1/2/2/202   1   1   1.0   Not measurable						
12/3/2019   2   25.5   25   Not measurable   Sump     12/11/2019   1.5   17   16.54   Not measurable   Sump     12/17/2019   5   19.5   17.5   Not measurable   Sump     12/23/2019   10   21   20.5   Not measurable   Mot measurable     1/7/2020   9   13   12.5   Not measurable   Water from sumps pumped out     1/3/2020   0   32   33.5   Not measurable   Mater from sumps pumped out     1/2/1/2020   0   0   0   Not measurable   Mater from sumps pumped out     1/2/2020   0   0   0   Not measurable   Mater from sumps pumped out on 2/20/2020     2/14/2020   1   10.5   Not measurable   Mater from sumps pumped out on 2/20/2020     2/12/2020   0   0   0   Not measurable   Mater from sumps pumped out on 2/20/2020     2/18/2020   1   36   36   Not measurable   Mater from sumps pumped out on 2/20/2020     3/11/2020   0   23						Less than 0.1 gal of DNAPL recovered from B107/B108
12/11/2019   1.5   17   16.54   Not measurable   Sump     12/17/2019   5   19.5   17.5   Not measurable     12/2/3/2019   10   21   20.5   Not measurable     1///2020   9   13   12.5   Not measurable     1///2020   9   13   12.5   Not measurable     1///2020   0   32   31.5   Not measurable     1/21/2020   2.5   26.5   26   Not measurable     1/24/2020   0   0   0   Not measurable     2/4/2020   2   11   10.5   Not measurable     2/12/2020   0   0   0   Not measurable     2/12/2020   1.5   11.5   10.25   Not measurable     2/12/2020   1   36   36   Not measurable     3/14/2020   2   42   36   Not measurable     3/11/202   2   36   35.5   Not measurable     3/12/2020   0   23	12/3/2019	2	25.5	25	Not measurable	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   1/1/1/2020 0 32 31.5 Not measurable   1/21/2020 2.5 26.5 26 Not measurable   1/21/2020 0 0 Not measurable    2/4/2020 2 11 10.5 Not measurable   2/12/2020 0 0 0 Not measurable   2/14/2020 2 41 10.25 Not measurable   2/12/2020 2 42 36 Not measurable   2/12/2020 2 42 36 Not measurable   3/6/2020 1 36 36 Not measurable   3/11/2020 2 36 35.5 Not measurable   3/12/2020 0 23 22 Not measurable   4/3/2020 1.5 29 28.5 Not measura	12/11/2019	15	17	16.54	Not measurable	
12/23/2019   10   21   20.5   Not measurable     1/7/2020   9   13   12.5   Not measurable   Water from sumps pumped out     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   Not measurable       2/4/2020   2   11   10.5   Not measurable      2/12/2020   0   0   0   Not measurable       2/12/2020   1.5   11.5   10.25   Not measurable       3/12/2020   1   36   36   Not measurable       3/11/2020   2   36   35.5   Not measurable       3/12/2020   0   23   22   Not measurable       4/3/2020						Sump
1/7/2020   9   13   12.5   Not measurable   Water from sumps pumped out     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      2/18/2020   1.5   11.5   10.25   Not measurable      2/18/2020   1   36   36   Not measurable      3/11/2020   2   42   36   Not measurable      3/11/2020   1   36   35.5   Not measurable      3/11/2020   0   23   22   Not measurable      3/12/2020   0   23   22   Not measurable      4/13/2020   0   23   22   Not mea						
1/8/202   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     2/12/2020   1.5   11.5   10.25   Not measurable     2/12/2020   2   42   36   Not measurable     3/6/2020   1   36   36   Not measurable     3/11/2020   2   36   35.5   Not measurable     3/11/2020   0   35.5   35   Not measurable     3/27/2020   0   23   22   Not measurable     4/3/2020   0   23   22   Not measurable     4/15/2020   0   23   22   Not measurable     4/15/2020   0   23						
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1/28/202   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     2/18/2020   1   36   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     3/11/2020   0   35.5   35   Not measurable     3/11/2020   0   29   28   Not measurable     3/27/2020   0   23   22   Not measurable     4/3/2020   0   23   22   Not measurable     4/15/2020   0   23   22   Not measurable     4/21/2020   0   23   22   Not measurable     5/4/2020   -   -   - <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
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   Water from sumps pumped out on 2/20/2020     2/27/2020   2   42   36   Not measurable      3/6/2020   1   36   35.5   Not measurable      3/11/2020   2   36   35.5   Not measurable      3/18/2020   0   35.5   35   Not measurable     3/27/2020   0   23   22   Not measurable     4/3/2020   1.5   29   28.5   Not measurable     4/4/2/2020   0   23   22   Not measurable     4/21/2020   0.5   23   22   Not measurable     4/28/2020   0   23   22   Not measurable     5/4/2020   -   -						
2/12/2020   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   Water from sumps pumped out on 2/20/2020     2/27/2020   2   42   36   Not measurable   Mot measurable     3/6/2020   1   36   35.5   Not measurable   Mot measurable     3/11/2020   2   36   35.5   Not measurable   Mot measurable     3/18/2020   0   35.5   35   Not measurable   Mot measurable     4/3/2020   1.5   29   28.5   Not measurable   Mot measurable     4/4/2020   0   23   22   Not measurable   Mot measurable     4/15/2020   0.5   23   22   Not measurable   Measurements were not taken; the inspector was unable to open the sumps     5/4/2020   -   -   -   Not measurable   Measurements were not taken; the inspector was unable to open the sumps     5/12/2020   0						
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   23   28   Not measurable     4/3/2020   1.5   29   28.5   Not measurable     4/3/2020   0.5   23   22   Not measurable     4/4/2020   0   23   22   Not measurable     4/15/2020   0.5   23   22   Not measurable     4/21/2020   0   21   21   Not measurable     4/21/2020   0   23   22   Not measurable     5/4/2020   -   -   -   Not Measured   unable to open the sumps     5/12/2020   0   15.75   14.25   Not measurable   Sump 1 p						
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     3/11/2020   0   35.5   35   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     4/4/2020   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   unable to open the sumps     5/12/2020   -   -   -   Not measurable   Sump 1 pumped down (May 22nd)     5/12/2020   0   14   13   Not measurable   Sump 1 pumped down (May 22nd) <td></td> <td></td> <td></td> <td>-</td> <td></td> <td>Water from sumps numped out on 2/20/2020</td>				-		Water from sumps numped out on 2/20/2020
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     4/3/2020   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     4/28/2020   0   23   22   Not measurable     4/28/2020   0   23   22   Not measurable     5/4/2020   -   -   Not Measured   unable to open the sumps     5/12/2020   0   15.75   14.25   Not measurable   Sump 1 pumped down (May 22nd)     5/27/2020   0   14   13   Not measurable   Sump 1 pumped down (May 22nd)						
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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 Measure Measurements were not taken; the inspector was unable to open the sumps   5/12/2020 0 20 19 Not measurable Measurements were not taken; the inspector was unable to open the sumps   5/19/2020 0 20 19 Not measurable Sump 1 pumped down (May 22nd)   5/27/2020 0 14 13 Not measurable Sump 1 pumped down (May 22nd)   6/1/2020 0 7 5 Not measurable Sump 1 pumped down (May 22nd)   6/1/2020 0 10 9 Not measurable Sump 1 pumped down (May 22nd)   6/17/2020 1 12 11 Not measurable Sump 1 pumped down (May 22nd)   6/25/2020 0 0 0 Not measurable Sump 1 pumped down (May 22nd)   6/30/2020 0 0 0 Not measurable Sump 1 pumped down (May 22nd)   6/30/2020 0						
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4/28/2020   0   23   22   Not measurable   Measurements were not taken; the inspector was unable to open the sumps     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      6/1/2020   0   10   9   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 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   unable to open the sumps     5/19/2020   0   15.75   14.25   Not measurable   Sump 1 pumped down (May 22nd)     5/27/2020   0   14   13   Not measurable   Image: Sump 1 pumped down (May 22nd)     6/1/2020   0   7   5   Not measurable   Image: Sump 1 pumped down (May 22nd)     6/1/2020   0   10   9   Not measurable   Image: Sump 1 pumped down (May 22nd)     6/1/2020   0   10   9   Not measurable   Image: Sump 1 pumped down (May 22nd)     6/1/2020   0   10   9   Not measurable   Image: Sump 1 pumped down (May 22nd)     6/17/2020   1   12   11   Not measurable   Image: Sump 1 pumped down (May 22nd)     6/25/2020   0   0   0   Not measurable   Image: Sump 1 pumped down (May 22nd)     6/30/2020   0   0   0   Not measurable   Image: Sum						
5/4/2020Not Measuredunable to open the sumps5/12/202002019Not measurable5/19/2020015.7514.25Not measurableSump 1 pumped down (May 22nd)5/27/202001413Not measurablefor the sumps6/1/2020075Not measurablefor the sumps6/1/20200109Not measurablefor the sumps6/1/202011211Not measurablefor the sumps6/25/2020000Not measurablefor the sumps6/30/2020000Not measurablefor the sumps						Measurements were not taken; the inspector was
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   Image: Sump 1 pumped down (May 22nd)     6/1/2020   0   7   5   Not measurable   Image: Sump 1 pumped down (May 22nd)     6/10/2020   0   7   5   Not measurable   Image: Sump 1 pumped down (May 22nd)     6/10/2020   0   7   5   Not measurable   Image: Sump 1 pumped down (May 22nd)     6/10/2020   0   10   9   Not measurable   Image: Sump 1 pumped down (May 22nd)     6/17/2020   1   12   11   Not measurable   Image: Sump 1 pumped down (May 22nd)     6/25/2020   0   0   0   Not measurable   Image: Sump 1 pumped down (May 22nd)     6/30/2020   0   0   0   Not measurable   Image: Sump 1 pumped down (May 22nd)	5/4/2020	-	-	-	Not Measured	
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 measurable		0	20	19	Not measurable	
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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 measurable		0	14	13	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 measurable		0	7	5	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 measurable		0	10	9	Not measurable	
6/25/2020   0   0   Not measurable     6/30/2020   0   0   0   Not measured		1	12	11	Not measurable	
6/30/2020 0 0 0 0 Not measured				0	Not measurable	
		0	0	0	Not measured	
	7/1/2020	48	46	47	Not measurable	Sumps 1, 2, & 3 pumped down

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

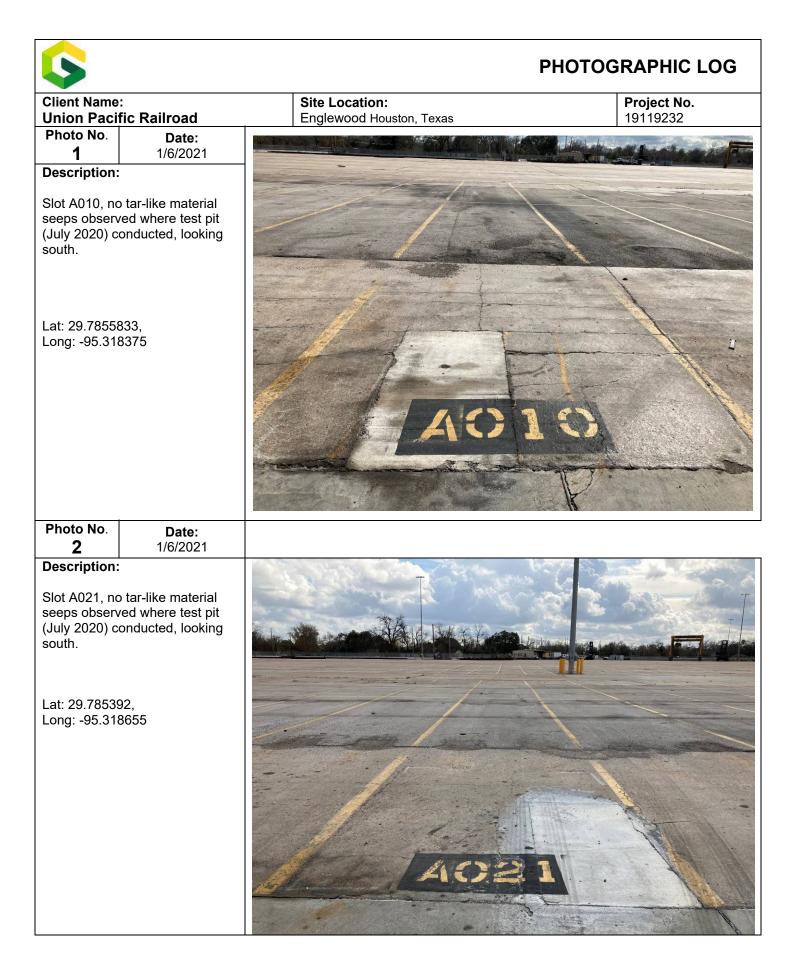
Measured	Sump 1 (B099/B100)	Sump 2 (B103/B104)	Sump 3 (B107/B108)	Depth to DNAPL	
Date	Freeboard (in)	Freeboard (in)	Freeboard (in)	(in)	Comments
					Less than 0.1 gal of DNAPL recovered from B107/B108
7/8/2020	34	24.5	24	Not measurable	Sump
					Sheen visible in B99/B100 sump & B107/B108 sump,
7/15/2020	32	29.5	29	Not measurable	less than 0.1 gal of DNAPL recovered B107/B108 sump
					Less than 0.1 gal of DNAPL recovered from B107/B108
7/23/2020		23	22.5	Not measured	Sump
7/31/2020	0	11	10	Not measurable	
8/5/2020		7	5	Not measurable	
8/13/2020		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		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	
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

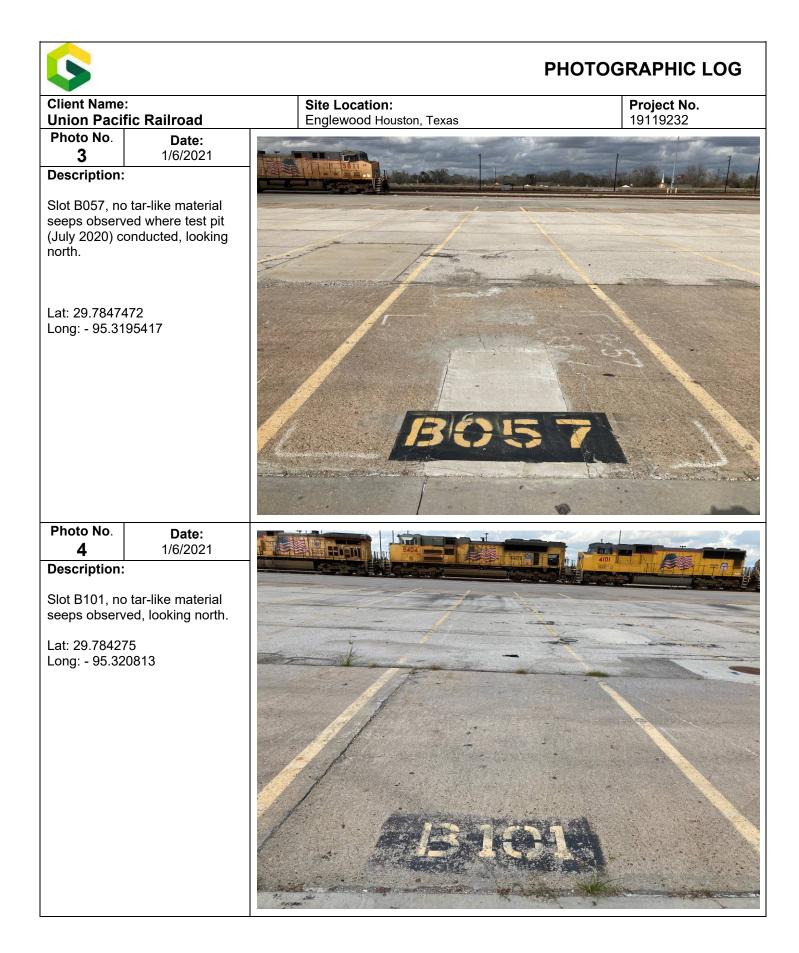
### Note:

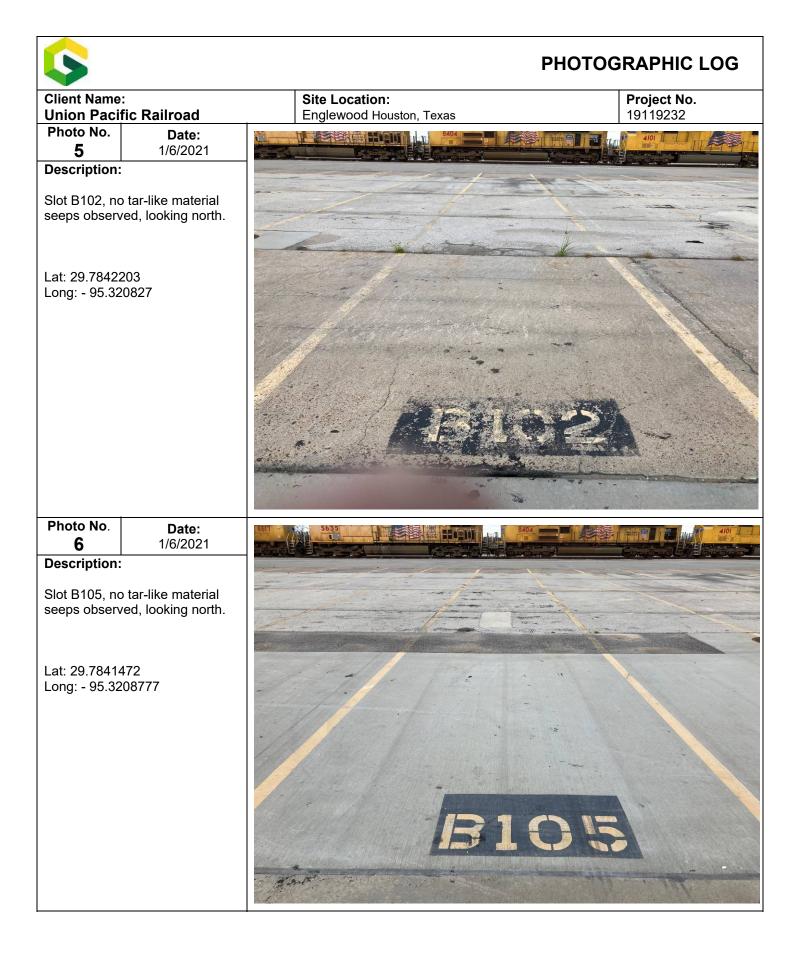
Freeboard in sumps is measured as depth to water from top rim of sump, measured in inches

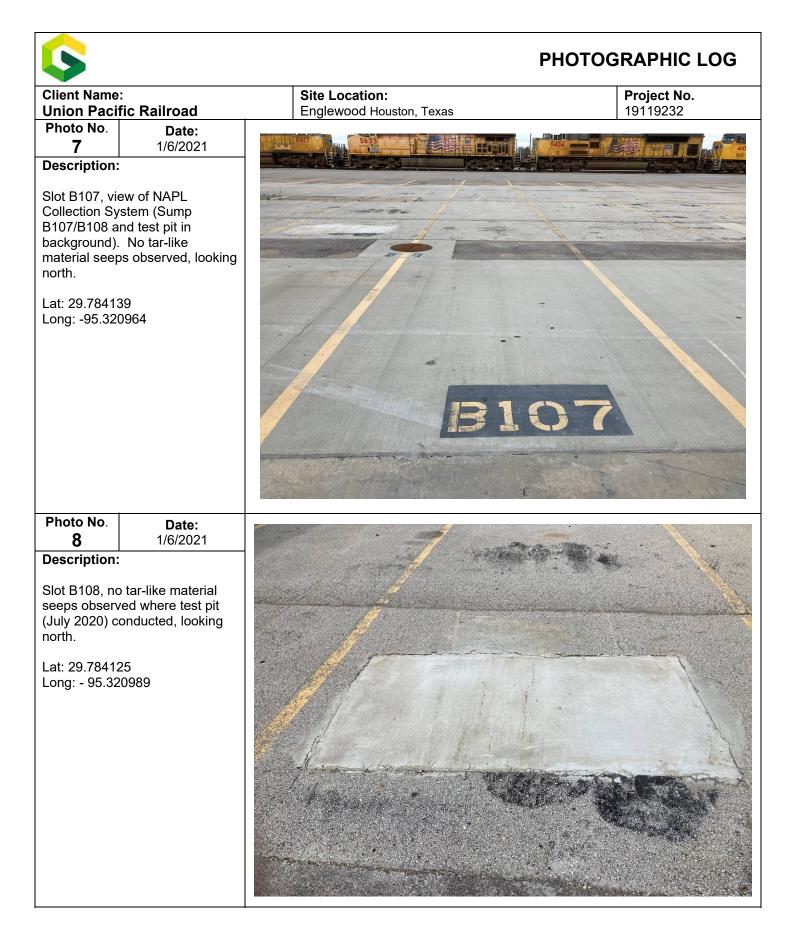
ATTACHMENT A

Weekly Inspection Photolog

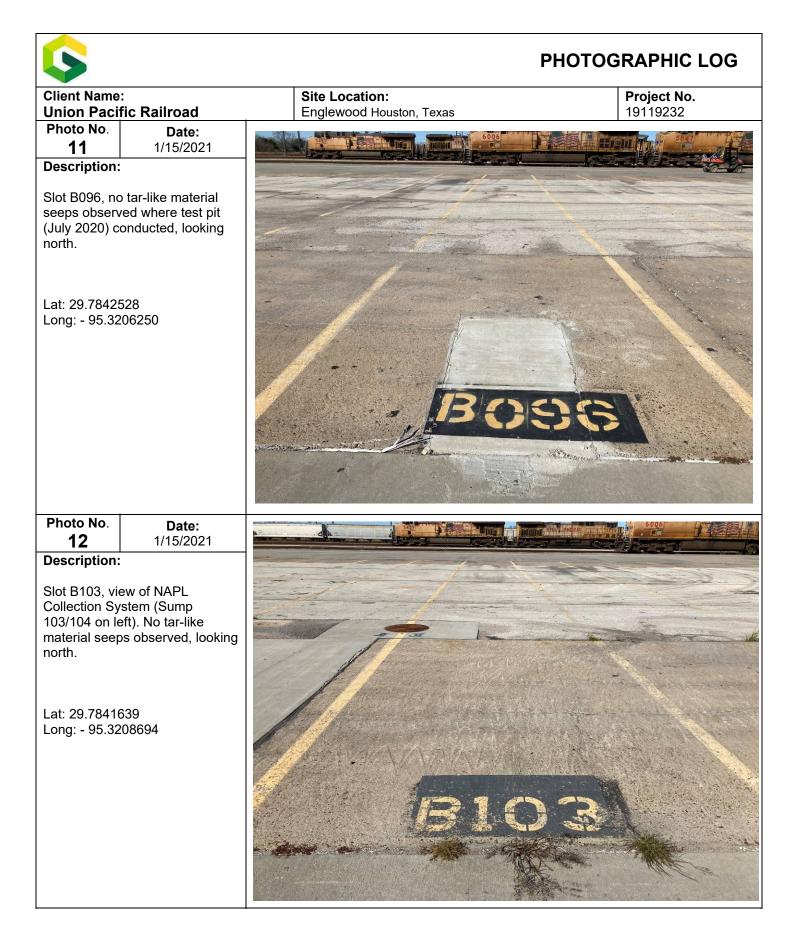


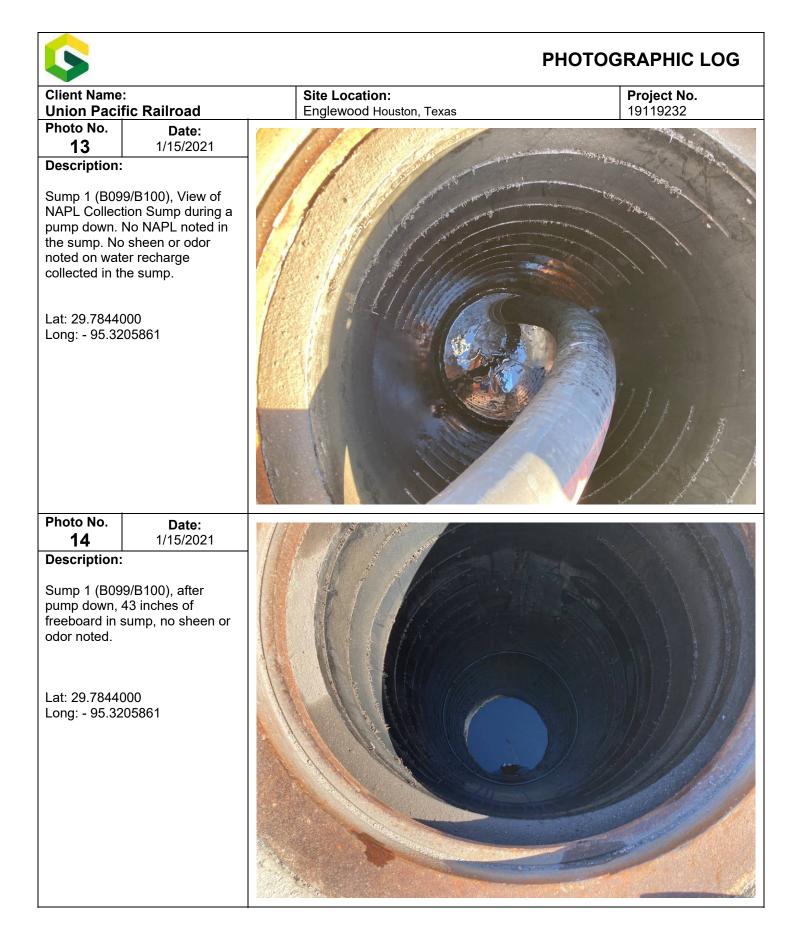


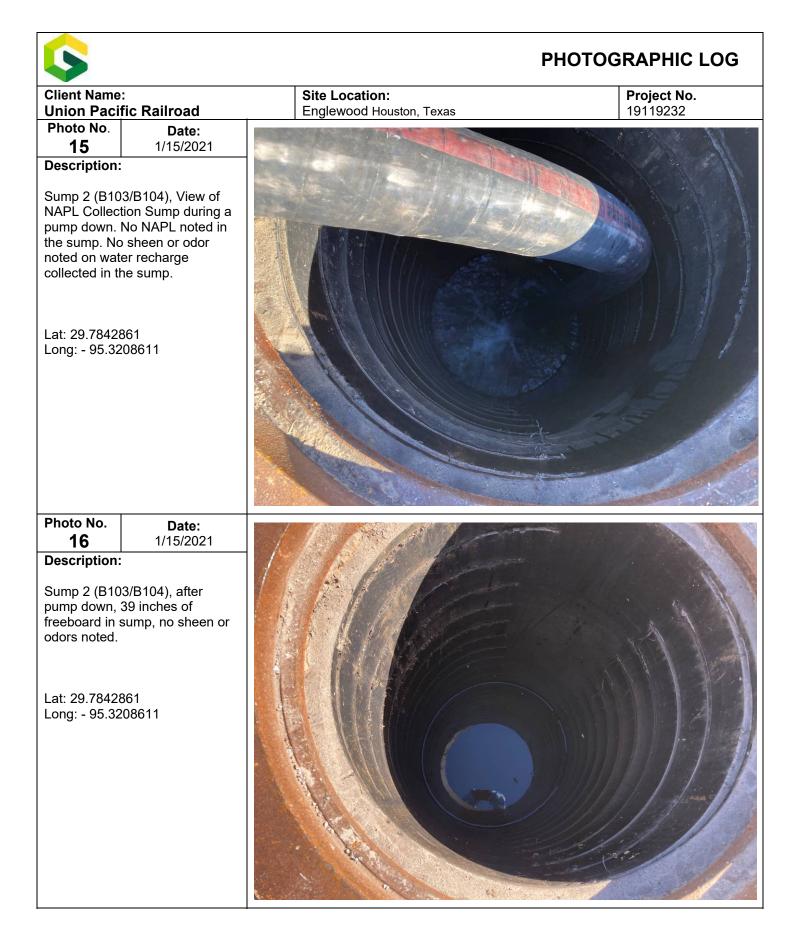


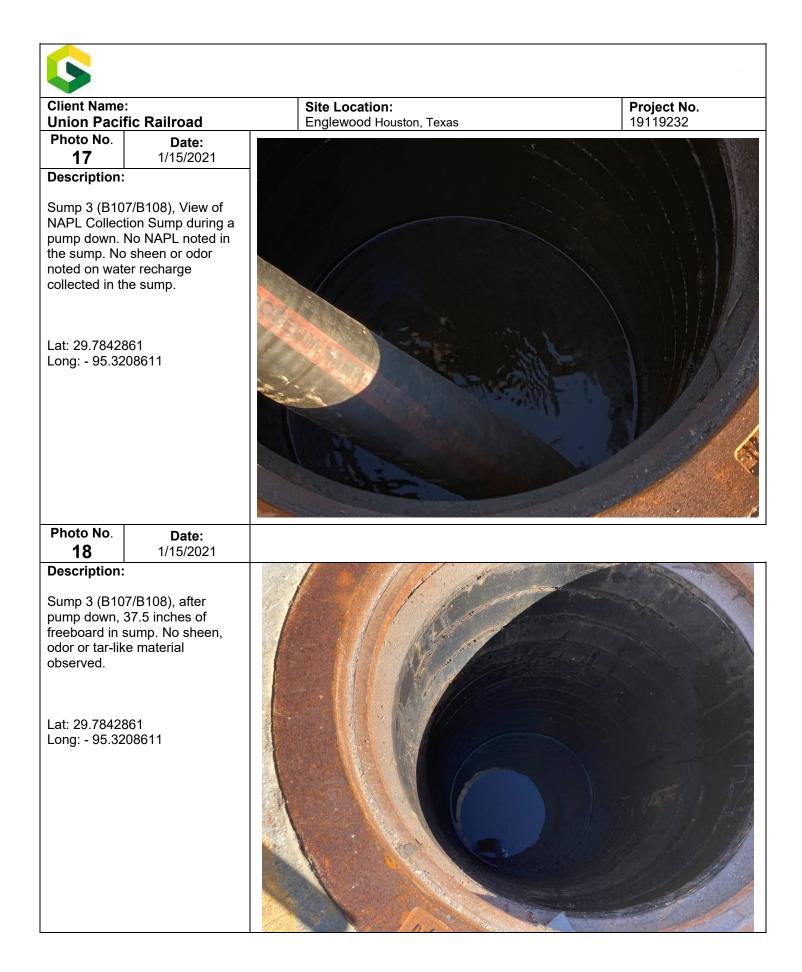


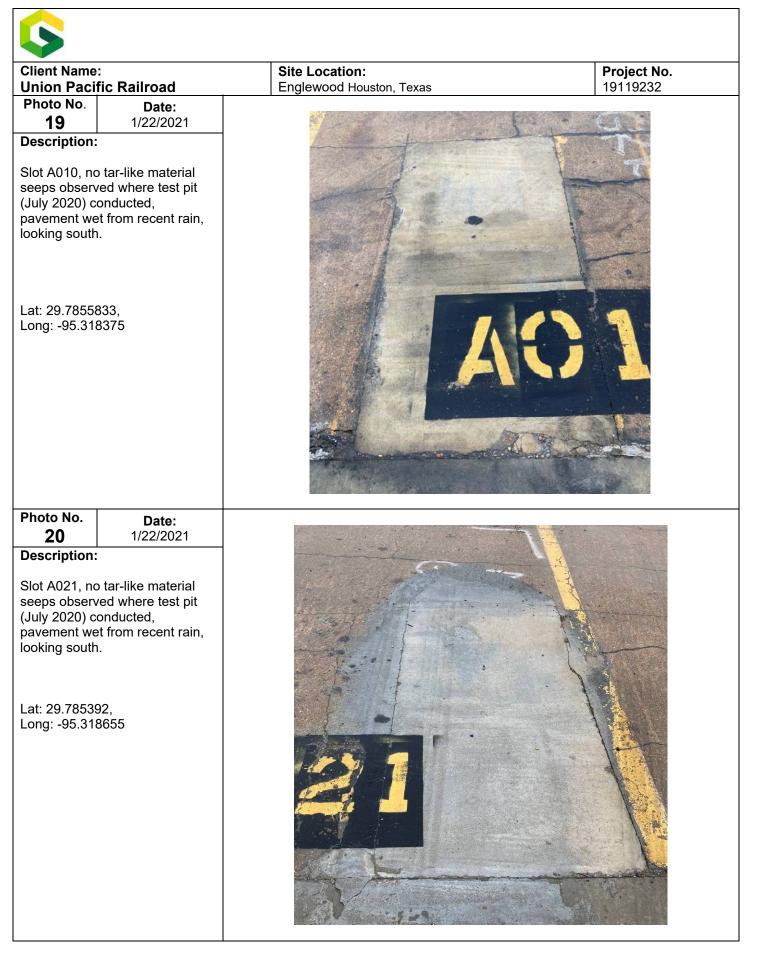






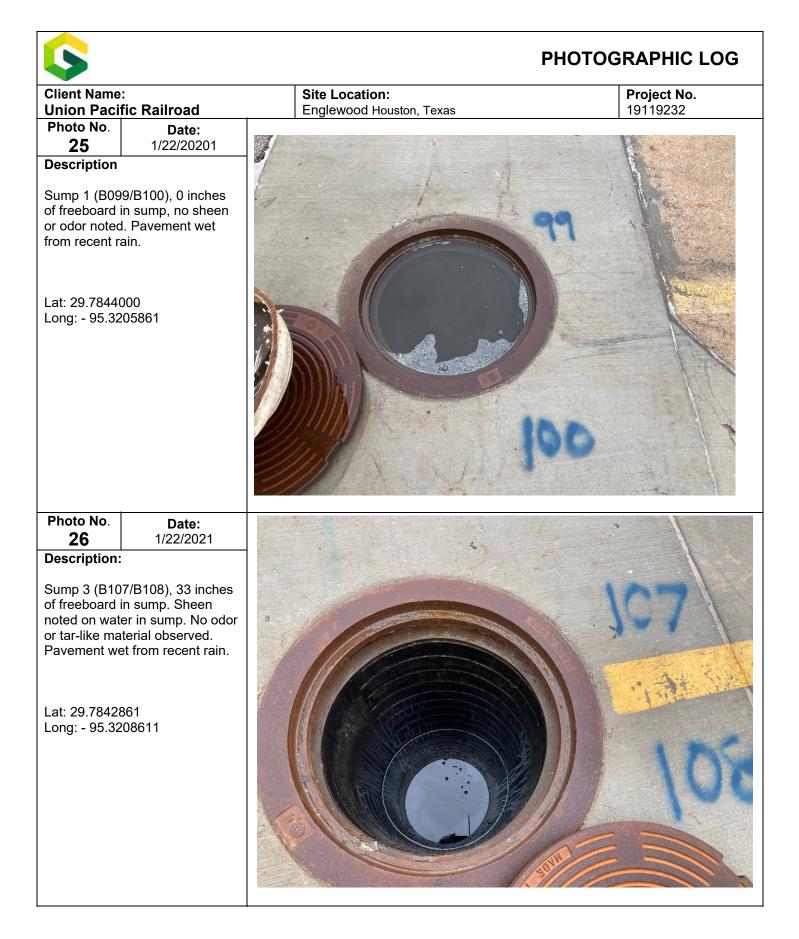








		PHOTOGRAPHIC LOG
	Site Location:	Project No.
Railroad	Englewood Houston, Texas	19119232
Date:		
1/22/2021		
		and the second second
d where test pit ducted,		
	Bee	333
Date: 1/22/2021		
em (Sump (ground). No tar- eps observed, on pavement n, looking north.		
	1/22/2021 ar-like material d where test pit ducted, from recent rain, 8 5250 <b>Date:</b>	Site Location: Englewood Houston, Texas   Date: 1/22/2021   ar-like material dwhere test pit ducted, rom recent rain,   8   5250   bate: 1/22/2021   Pate: 1/22/2021   Pate: 1/22/2021   rof NAPL em (Sump kground). No tar- eps observed, on pavement h, looking north.   2



6			PHOTOGRAPHIC LOG
Client Name: Union Pacific Railroad		Site Location: Englewood Houston, Texas	<b>Project No.</b> 19119232
Photo No. 27	<b>Date:</b> 1/29/2021		
271/29/2021Description:Slot A022, very small amount of tar-like material seeping at asphalt crack, material was removed.Lat: 29.785392, Long: -95.318655			stanter <sub>e</sub> 3 4 5 6
Photo No. 28Date: 1/29/2021Description:Slot B101, very small amount of tar-like material seeping at asphalt crack, material was removed.Lat: 29.784275 Long: - 95.320813		<image/>	



## PHOTOGRAPHIC LOG

Client Name: Union Pacific Railroad		Site Location: Englewood Houston, Texas	<b>Project No.</b> 19119232
Photo No. 29	<b>Date:</b> 1/29/2021		1
Description:			
Slot B102, no seeps observ	tar-like material ed, looking north.		
Lat: 29.7842203 Long: - 95.320827			
Photo No. <b>30</b>	<b>Date:</b> 1/29/2021		
Description:			and the second
Slot B105, no tar-like material seeps observed, looking north.			
Lat: 29.7841472 Long: - 95.3208777		BIO	5

