



August 31, 2018

## Project No. 30401358

NO DELIVERED

**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 – SOIL CAP AND 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), formerly Pastor, Behling & Wheeler, LLC (PBW), on behalf of Union Pacific Railroad Company (UPRR), is pleased to provide this monthly status update 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. This monthly status report also provides response to comments in a TCEQ letter dated August 22, 2018.

A brief description of the current status of the repairs is provided below;

- Soil Cap Repairs to the soil cap were conducted on June 12 and 13, 2018. No further actions are necessary to address the soil cap repairs.
- Concrete Cap (Englewood Intermodal Yard) Repairs to the concrete cap include addressing the seep area within parking slots B100 to B109 (for container trailers) where a tar-like substance was observed surfacing through the joints and cracks in the concrete and asphalt surfaces. Golder continues to conduct weekly inspections of the affected area. When significant amounts of the tar-like substance are observed on the concrete surface, a remediation contractor (United States Environmental Services (USES)) is notified to mobilize to the Site to remove and properly dispose of the material.

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The TCEQ provided a letter to UPRR dated August 22, 2018 containing comments on the concrete cap seep and planned repairs. Below are the TCEQ comments contained in that letter and UPRR responses to those comments:

• If significant amounts of tar-like substance are removed and disposed of by a remediation contractor, then the Status Update should include at a minimum: the amount of material removed, identify of the location(s) where the material was removed, and the manifest identifying the final disposition of the material.

<u>Response:</u> The UPRR remediation contractor has recovered approximately one-half of a 55-gallon drum (approx. 25-30 gallons) of the thick, tar-like substance that has seeped to the surface over the past 12 months. The seeps appear to be active during the warmer months of the year, and not active during the cooler months. The recovery method includes scraping the concrete surface with flat-bladed shovels. This method generally allows recovery of approximately 0.5-gallon to 1 gallon per event. The location of the tar-like substance seeps has been noted within parking slots B100 to B109 (see Attachment A - Figure 1 for the general location). Since there has been less than a full drum recovered during the scraping events, the material has been accumulated in a 55-gallon drum that is stored within the Englewood Intermodal Yard. The drum contents will be disposed of when nearly full. Upon disposal, UPRR will provide the waste manifest in the subsequent monthly update.

• Please provide details on the revised response action design to address future subsurfacing of the tar-like substance.

<u>Response:</u> Golder developed a response action design to address the tar-like substance seeps present in the B100 to B109 parking slots. The preliminary design drawings are provided in Attachment B of this letter. The preliminary design consists of the following:

- Saw cut and remove the asphalt or concrete cover (approximately 1,395 square feet of area);
- Excavate the existing road base, soil and debris to a depth of approximately 5 feet below grade. The estimated volume of material to be removed is approximately 215 cubic yards (in-place). The excavated material will be placed in roll-off boxes, profiled for disposal, and disposed at a permitted landfill facility;
- Place a geotextile fabric at the base of the excavation, overlain with approximately 3 feet of high permeability fill (i.e., gravel) to allow the collection of non-aqueous phase liquid (NAPL) in the NAPL collection zone;
- Install a vertical 24-in diameter (or similar) HDPE plastic pipe to a depth of 5 feet below grade, with slotted pipe/perforations in the lower 3 feet of the pipe to allow the recovery of NAPL that may collect in the NAPL collection zone; and
- Backfill the remaining 24 inches of the excavation with a combination of compacted select fill, compacted base material, and reinforced concrete to return the ground surface for parking of the container trailers.

Modifications to the design may be made prior to or during the construction phase depending on field conditions.

The preliminary design described above was developed based on information gathered from three soil borings (SB-1 B108, SB-2 B105, and SB-3 B100 (boring logs provided in Attachment C)) conducted in the

seep area (see Attachment A – Figure 1 for locations). The boring logs indicate the presence of a NAPL saturated zone (NAPL described as a black rubbery material) approximately three feet below grade. Prior to implementing the proposed remedial action, Golder plans to conduct test pits in the area of the planned response action, and at two other areas where small tar-like material seeps have been noted over the past month (parking slots B13 and B57 (Attachment A – Figure 1)), as discussed in the following response. Once the test pits have been conducted and information gathered from the test pits have been evaluated, UPRR will then revise the proposed response action as necessary and submit the proposed remediation design to remediation contractors to provide bids and implement the design (subject to revisions based on the test pits).

• UPRR has asked for and received numerous extensions to complete the design and implementation of the concrete cap repairs. The TCEQ is concerned that repairs to the concrete cap are taking much longer than necessary. The TCEQ requests that all repairs to the concrete cap be completed by the end of September 2018.

<u>Response:</u> The delays in implementing the propose response action design have been driven based on changing field conditions during the hottest months of the year where the seeps appear to be more active. In mid to late July 2018, two small seeps of the tar-like material (parking slots B13 and B59) were identified during the weekly site visits further east of the primary area (slots B100-B109) where the seeps have been noted. In response, prior to implementing the proposed response action design, UPRR proposes to conduct test pits in both the primary area and the two new areas to preliminarily evaluate potential seepage into the excavation and evaluate response options for the two new areas. The proposed locations of the test pits are shown on Figure 1 (Attachment A). Dimensions of the test pits will be approximately 4 to 5 feet deep, 2 feet wide and 6 feet long. Excavated material will be placed in roll-off boxes, profiled and disposed of at a permitted landfill facility. Each test pit will be left open for about 24 hours to observe seepage of the tar-like substance over that time period, and then backfilled with clean fill and asphalt pavement placed at the surface.

The remediation contractor is anticipated to initiate the test pit excavations during the week of September 10, 2018 (depending on weather). Following the test pit excavation, the information gathered will be used to revise the preliminary response action design as necessary for implementation. Based on the planned activities, below is an estimated schedule to address the tar seeps (subject to change depending on field conditions and the final contractor schedule):

- September 10-12, 2018 Conduct test pits, evaluate data
- September 21, 2018 Revise propose response action design, as needed
- September 28, 2018 Submit request for bids to potential remediation contractors
- October 12, 2018 Select remediation contractor to implement the proposed response action design
- October 22, 2108 Begin construction of the response action design. Completion of the response action will be dependent on field conditions.

Once the repairs to the concrete cap have been completed, UPRR will submit an Updated PRACR summarizing the repairs to both caps. Per our call between TCEQ, UPRR and Golder on Monday, August 27<sup>th</sup>, we discussed that the repairs to the concrete cap would be more extensive and that given the need for the test pits, that the repairs would not likely be completed by the end of September 2018. Therefore, UPRR respectfully requests the TCEQ to extend the requested completion date based on the proposed schedule stated above. UPRR will keep the TCEQ updated on the proposed activities for the concrete capped area.

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. Senior Consultant / Associate

ECM



CC: Mr. Kevin Peterburs, UPRR – Milwaukee, WI

Attachments: Attachment A – Englewood Intermodal Yard Site Map Attachment B – Proposed Response Action Design Figures Attachment C – B100-B109 Seep Area Soil Boring Logs

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ATTACHMENT A

Englewood Intermodal Yard Site Map



## PROJECT NO. 30401358-640 FIGURE REV. 0

ATTACHMENT B

Proposed Response Action Design Figures



TITLE PROPOSED REMEDIAL EXCAV	VYYY-MM-DD 2018-08-31   DESIGNED BZH   PREPARED BZH		
CONSULTANT	YYYY-MM-DD	2018-08-31	
	DESIGNED	BZH	
	PREPARED	BZH	
	REVIEWED	RBL	
	APPROVED	ECM	
PROJECT NO. 30401358-640	RE 0	EV.	FIGURE



1	- STAINLESS	STEFL BANDING
	-60 mil H	HDPE PIPE BOOT
		i HDPE LINER
· · · · · · · · · · · · · · · · · · ·		
	OPOSED PAVEMI TEM (SEE FIGUR	ENT RE 4)
THE 60 mil HDPE LINER		
/8"x2'-1" 50000 PENINGS 50000		
AT EACH		
PLATE 1PE		
REINFOR	CED CONCRETE	:(#5 ~H ₩AY
	TED BASE MATE	
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ETE COMPAC	TED SELECT FIL	
$\left[\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ \end{array}\right] \left( 3/4 \right] $	, TED HIGH PERM - 1" ANGULAR	AEABILITY FILL GRAVEL)
CLIENT	).	
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PROJECT ENGLEWOOD INTERMODAL Y	ARD - SEEP IN	VESTIGATION
FROFUSED NAFL CULLECTIC	513151EW	
CONSULTANT	YYYY-MM-DD DESIGNED	2018-08-31 BZH
GOLDER	PREPARED	BZH
	APPROVED	ECM
PROJECT NO. 30401358-640	RE	EV. FIGURE
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ATTACHMENT C

B100-B109 Seep Area Soil Boring Logs





SIT		TION	PROJECT AND DRILLING INFORMATION				ERICO		
B-Row Remediation Sampling Englewood Intermodal Yard Houston, TX		Drilling Company: Completion Date: Driller: Driller's License: Logged By:		/: Best Drilling Services ∷ 5/11/2018 Carlos Estrada 58981 Jacob Geesin	Borehole Diameter (in.): Total Depth (ft): Water Level (ft): Latitude: Longitude:	2 9 	B GEOLOGY LIC. # 795 CENSED		
PBW P	roject No. 1	1358-640	Drilling Method: Sampling Method:		DPT Continuous Core	TOČ Elev. (ft AMSL): Ground Elev. (ft AMSL):		Texas Geosciences Firm No	
Depth (ft)	Recovery (ft/ft)	PID (ppm)	Sample L	JSCS		LITHOLOGIC D	ESCRIPTION		
0	1.0/1.0		CON (0.0 - 1.0) Concrete, asphalt						
		6.0							
2 -	2 5 14 0	8.9		FILL	(1.0 - 3.3) FILL, as 3.3', NAPL (black,	(1.0 - 3.3) FILL, asphalt, gravel (>2mm), black, glass fragments, slight og 3.3', NAPL (black, solid, rubbery, moderate odor) present			
3 =	3.5/4.0	10.3		CL.	(3.3 - 4.5) SILTY (	CLAY, gray, soft to firm,	slight odor, low	to medium plasticity	
4 -		3.6		NR	(4.5 - 5.0) NO RECOVERY				
5 -		0.6							
6 -	3.0/4.0	0.8		сн	(5.0 - 8.0) CLAY, ç	gray with orange mottling	g, hard, high pla	asticity, slight odor	
8		1.2							
9		NR		NR	(8.0 - 9.0) NO REC	COVERY			
	RW	2. R	201 Double ( ound Rock,	Creek Texas	Dr., Suite 4004 78664	Notes: 1.) Boring plugged and abando 2.) This boring log should not b 3.) NR - No Recovery	ned upon completion e used separate fror	n of sampling activities. n its original report.	