



November 22, 2021

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**Subject: Supplemental Site Investigation Work Plan Addendum  
Enbridge Line 13 MP 312, Blackhawk Island Rd Valve Site, Ft. Atkinson, WI  
WDNR BRRTS #02-28-586199**

Dear Mr. Beaster:

WSP USA Inc. (WSP) is pleased to submit the following Supplemental Site Investigation Work Plan Addendum for the Line 13 Milepost (MP) 312 Valve Site located at the intersection of Blackhawk Island Road and Westphal Lane near Fort Atkinson, Wisconsin (Site). The Supplemental Site Investigation Work Plan (SSIWP), dated May 4, 2021, was approved by the Wisconsin Department of Natural Resources (WDNR) in a letter dated May 26, 2021. The SSIWP proposed installation of 12 monitoring wells to more accurately define the lateral and vertical extent of impacted groundwater at the Site.

Between July 26 and August 12, 2021, WSP oversaw the installation of the 12 proposed monitoring wells included in the SSIWP and two additional monitoring wells (MW-15-32 and MW-16-29), which were not anticipated in the SSIWP. The wells were installed using rotasonic drilling methods and constructed using Schedule 40 flush-threaded, 2-inch diameter polyvinyl chloride (PVC) riser fitted with a 5-foot long or 10-foot long, 0.010-inch horizontal slotted PVC screen. The wells were completed with aboveground protective covers and developed by surging and purging with a submersible pump while measuring field parameters to assess stability. The monitoring wells were surveyed on August 31, 2021. Figure 1 shows the surveyed well locations and the July and September 2021 groundwater sampling results for benzene at each well location. Sampling results for July and September 2021 were reported to the WDNR in letters dated July 29 and September 22, 2021. Figure 1 also includes the sampling results from temporary wells installed and sampled during the July through September 2020 Site Investigation.

Based on the results of the groundwater sampling, the lateral delineation of impacted groundwater in the shallow aquifer is complete to the northwest (SB-25 and SB-26), north (MW-02-25 and MW-03-25), northeast (MW-04-29), east (MW-16-29), southeast (MW-12-31), south (MW-15-32 and MW-09-33), and southwest (MW-07-32 and MW-08-27). The sampling results at monitoring well MW-14-31 indicate that impacted groundwater in the shallow aquifer may extend to the west under Blackhawk Island Road. Therefore, one additional monitoring well is proposed (MW-17-20) to be installed on the west side of Blackhawk Island Road to provide lateral delineation to the west of the MP 312 valve site.

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Based on the MW-17-20 ground surface elevation (approximately 804 feet above mean sea level [amsl]) and anticipated groundwater elevation (approximately 789 feet amsl), the target depth for the monitoring well screened interval is approximately 10 to 20 feet bgs, but will be determined in the field by the onsite WSP hydrogeologist. The monitoring well drilling, installation, development, and surveying procedures will be consistent with the procedures provided in the SSIWP, with the exception of drilling method. Instead of rotosonic drilling methods as specified in the SSIWP, MW-17-20 will be installed using 4.25-inch inner diameter hollow-stem auger drilling methods with continuous soil sampling from ground surface to the termination depth for lithologic description and field screening using a photoionization detector (PID). Additionally, if soil cores exhibit no PID readings, the soil cuttings and well development water will be thin-spread on ground surface adjacent to the monitoring well location. If the soil cores exhibit elevated PID readings indicating that impacted groundwater extends to the well location, soil cuttings and well development water will be containerized in Department of Transportation (DOT)-compliant 55-gallon drums for characterization and disposal.

A groundwater sample will be collected from monitoring well MW-17-20 at least one week following development using low-flow purge and sampling methods and laboratory analysis for volatile organic compounds (VOCs) using EPA Method 8260. The initial sampling may be scheduled to coincide with other quarterly groundwater sampling activities at the Site, and the sampling results will be provided to WDNR within 10 days of receipt from the laboratory.

In accordance with NR 712, Wis. Adm. Code., the certification of hydrogeologist for this Supplemental Site Investigation Work Plan Addendum is included in Enclosure A.

Please do not hesitate to contact me if you have questions:

Kind regards,

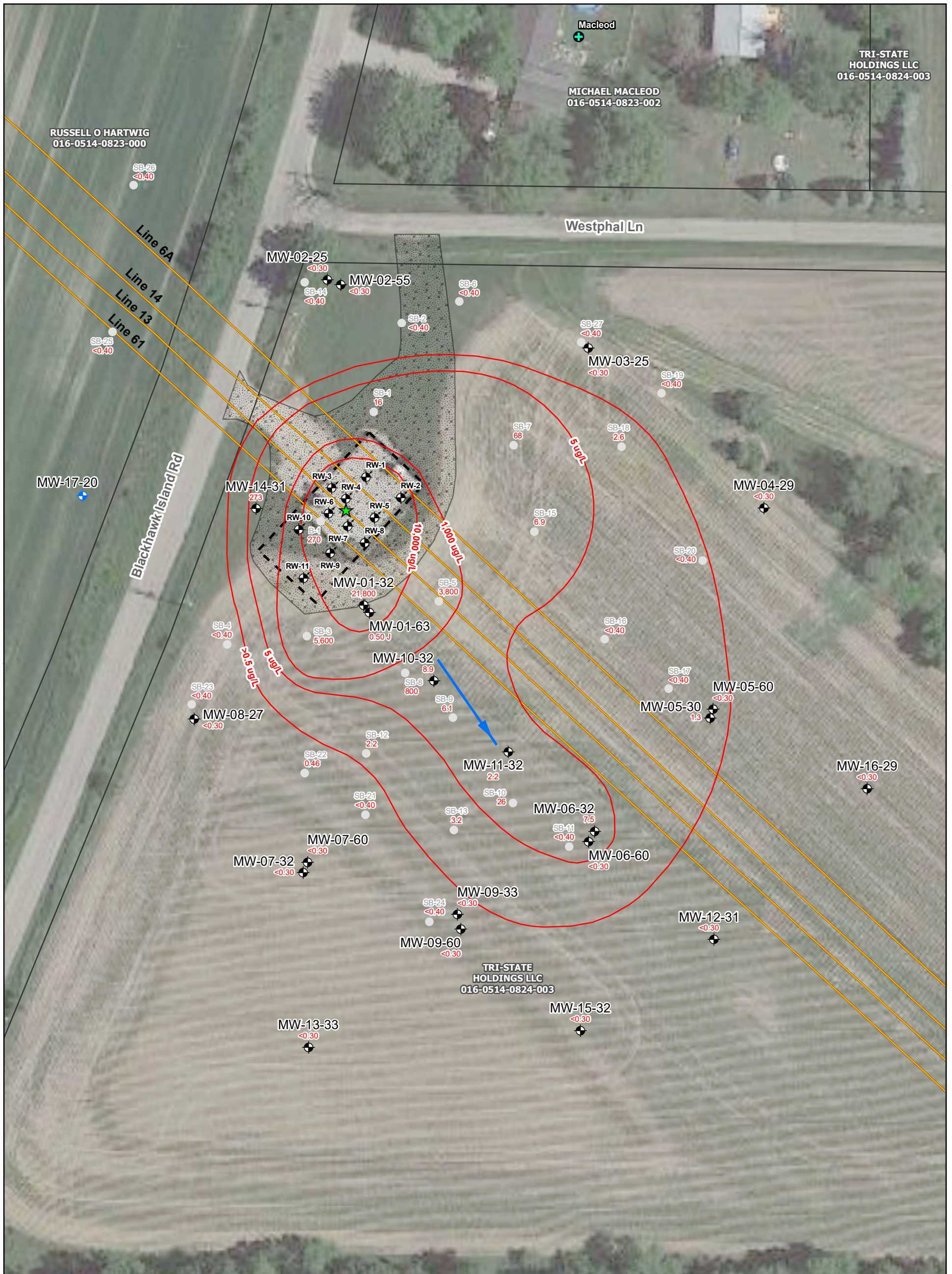
A handwritten signature in black ink that reads 'Tim Huff'. The signature is written in a cursive, flowing style.

Timothy A. Huff  
Senior Lead Geologist

TAH :  
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Encl.

FIGURE



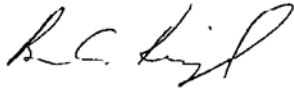
Note:  
 1. Benzene isoconcentration contours developed from July-Sept 2020 temporary well sampling results and July-Sept 2021 shallow monitoring well sampling results.

	Map Location	 Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet	<b>Legend</b> <ul style="list-style-type: none"> <li> Approximate Release Location</li> <li> Proposed Monitoring Well</li> <li> Monitoring Well</li> <li> Remediation Well</li> <li> Potable Well</li> <li> Sept 2020 Soil Boring / Temporary Well</li> <li> Groundwater Flow Direction</li> <li> Benzene Isoconcentration Contours (ug/l)</li> <li> Enbridge Pipeline</li> <li> Gravel Perimeter</li> <li> Site Fence</li> <li> Property Parcels</li> </ul>	<p style="text-align: center;"><b>FIGURE 1</b>                  MONITORING WELL AND                  REMEDIATION WELL LOCATIONS</p> <p style="text-align: center;">LINE 13 MP 312 VALVE SITE                  FORT ATKINSON, WISCONSIN</p> <p style="text-align: center;">ENBRIDGE ENERGY                  LIMITED PARTNERSHIP</p>
	Drawn: WSP 11/19/2021 Approved: WSP 11/19/2021 Project #: 31401967.705			

## ENCLOSURE A – HYDROGEOLOGIST CERTIFICATION

Supplemental Site Investigation Work Plan Addendum  
Enbridge Line 13 MP 312 Valve Site  
Blackhawk Island Road  
Fort Atkinson, Wisconsin  
BRRTS Number: 02-28-586199

I, Brian C. Kimpel, certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, am registered in accordance with the requirements of ch. GHSS 2, Wis. Adm. Code, or licensed in accordance with the requirements of ch. GHSS 3, Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.



11/22/2021

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Brian C. Kimpel,  
Supervisory Hydrogeologist, Wisconsin P.G. #1140

Date