



# ARM Group LLC

Engineers and Scientists

June 1, 2020

Ms. Barbara Brown  
Project Coordinator  
Maryland Department of the Environment  
1800 Washington Boulevard  
Baltimore, MD 21230

Re: Pre-Design Investigation Work Plan  
Parcel B14: Humphrey Impoundment  
(Revision 1)  
Tradepoint Atlantic  
Sparrows Point, MD 21219

Dear Ms. Brown:

ARM Group LLC (ARM), on behalf of EnviroAnalytics Group (EAG), is providing this letter to present additional details of the proposed investigation activities at a portion of the Tradepoint Atlantic property that has been designated as Area B: Parcel B14 (the Site). This letter summarizes recent non-aqueous phase liquid (NAPL) monitoring results and proposes locations for NAPL bail-down transmissivity testing as part of the agency-approved Pre-Design Investigation (PDI) Work Plan (Revision 1), dated December 10, 2019.

## Recent NAPL Gauging Results

The existing piezometer network within Parcel B14 was gauged for the presence of NAPL on April 22, May 1, and May 7, 2020. Measured NAPL thicknesses are shown on **Figure 1**. Note that some piezometers have been previously abandoned, destroyed, or were unable to be located.

## NAPL Bail-Down Transmissivity Testing

NAPL bail-down transmissivity testing, as described in the PDI Work Plan, is proposed for locations B14-008-PZ, B14-011-PZ, and B14-013-PZ. Piezometers were selected B14-011-PZ and B14-013-PZ because they had the two greatest thicknesses of NAPL based on the recent measurements. Piezometer B14-008-PZ was selected to provide a testing location in the eastern portion of the Site. As described in the PDI Work Plan, a 2-inch diameter well will be installed at each location for the purpose of completing the bail-down transmissivity testing. A complete description of the NAPL bail-down transmissivity testing is provided in the PDI Work Plan. Well construction details for the three proposed locations is provided in the table below.

Piezometer ID	Proposed Total Depth in feet below ground surface (bgs)	Proposed Screen Interval (feet bgs)
B14-008-PZ	23	3-23
B14-011-PZ	23	3-23
B14-013-PZ	23	3-23

The total depth of each well may be adjusted during drilling based on field observations with the goal of capturing as much NAPL as possible but not drilling through the bottom of the impoundment.

If you have any questions, or if we can provide any additional information at this time, please do not hesitate to contact ARM Group LLC at 410-290-7775.

Respectfully Submitted,  
ARM Group LLC



Stewart Kabis, P.G.  
Project Geologist



Eric S. Magdar, P.G.  
Vice President



