

ARM Group LLC

Engineers and Scientists

January 6, 2020

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

> Re: NAPL Delineation Completion Report Area A: Parcel A10 (A10-006-PZ) Tradepoint Atlantic Sparrows Point, MD 21219

Dear Ms. Brown:

In July 2016, ARM Group LLC (ARM), on behalf of EnviroAnalytics Group (EAG), completed a Phase II Investigation of a portion of the Tradepoint Atlantic property that has been designated as Area A: Parcel A10 (the Site). On July 7, 2016, while screening the soil cores associated with boring A10-006-SB, strong odors and an amber colored non-aqueous phase liquid (NAPL) were noted in the soil boring from 7 to 8 feet and from 9 to 9.5 feet below ground surface (bgs). An intermediate depth soil sample was collected from the 6 to 7 foot bgs interval (A10-006-SB-7) just above the observed impacts and the water table.

Based on the observation of NAPL, and in accordance with the Phase II Investigation Work Plan, a temporary NAPL screening piezometer (A10-006-PZ) was installed with a screen interval from 4 to 14 feet bgs. After installation, the piezometer was checked for the presence of accumulated NAPL using an oil-water interface probe. The 0-hour, 48-hour, and 30-day gauging events at this location were all absent of measurable or trace NAPL. An additional gauging event was completed approximately one year after the installation on July 31, 2017; NAPL was not detected during this independent gauging event. Static groundwater was measured at an approximate depth of 7 feet bgs on this date.

The MDE provided approval, via an email on February 26, 2018, that the NAPL screening piezometer A10-006-PZ could be abandoned. However, prior to its abandonment, trace NAPL was detected in A10-006-PZ on January 4, 2019. Four delineation piezometers were subsequently installed in January 2019 at approximately 25 feet to the north (A10-006A-PZ), east (A10-006B-PZ), south (A10-006C-PZ), and west (A10-006D-PZ) surrounding A10-006-PZ to delineate the extent of potentially mobile NAPL, and a fifth piezometer (A10-006E-PZ) was installed approximately 25 feet south of A10-006-PZ directly adjacent to A10-006C-PZ due to

the identification of a perched groundwater zone overlying approximately 8.5 feet of clay and subsequently the shallow hydrogeologic zone. Measurable NAPL was identified in the two southern piezometers (A10-006C-PZ and A10-006E-PZ). Following the identification of NAPL in these paired piezometers, an additional three pairs of shallow/perched delineation piezometers (A10-006F-PZ through A10-006K-PZ) were subsequently installed approximately 25 feet to the south, east, and west surrounding A10-006C-PZ/A10-006E-PZ between January 25 and February 11, 2019. The locations of the delineation piezometers are provided on **Figure 1**.

Each piezometer has been periodically monitored to document the presence of any NAPL. The dates of monitoring activities, as well as NAPL thickness measurements and water level measurements, have been included in **Table 1**. This table also includes the installation date of each piezometer, as well as relevant construction details (screen intervals, etc.). Boring logs documenting soil core observations were completed for all delineation piezometers installed in the vicinity of A10-006-PZ. The combined soil boring observation and piezometer construction logs are provided in **Attachment 1**.

As indicated on **Figure 1** and in **Table 1**, NAPL has been detected at three piezometer locations: A10-006-PZ, A10-006C-PZ, and A10-006E-PZ. A thin layer of light NAPL (LNAPL) was identified in piezometer A10-006C-PZ during the 0-hour gauging event, and a significant amount of dense NAPL (DNAPL) was identified during the 48-hour gauging event and subsequent gauging events. The observed thickness of the DNAPL is likely due to the product settling within the screen interval from an overlying NAPL-impacted layer (NAPL was observed in the soil core from roughly 9.5 to 13 feet bgs). While no NAPL was identified in A10-006E-PZ during the 0-hour gauging event, a significant layer of LNAPL was present during the 48-hour gauging event and subsequent gauging events. Only trace amounts of NAPL have been detected in A10-006-PZ since the initial discovery on January 4, 2019, and NAPL was not detected during the most recent event on December 17, 2019.

On August 13, 2019, a pale gray, moderately thick product was observed on the oil-water interface probe upon withdraw from A10-006K-PZ. There was no odor and the oil-water interface probe did not react to the product. A sample of product was removed from A10-006K-PZ using a bailer on August 13, 2019 and placed in a clear unpreserved laboratory sample jar for observation. On October 28, 2019, ARM personnel re-examined the jar of product and observed that there was a separation of water and the unknown product. The unknown product had settled to the bottom of the sample jar; indicating a DNAPL. Photographs of the observations on August 13, 2019 and October 28, 2019 have been included as **Attachment 2**.

Weekly NAPL gauging has occurred at A10-006-PZ and the surrounding delineation piezometers since mid-November 2019. LNAPL has been removed from A10-006E-PZ during each of these gauging events. In addition, the unknown gray product has been removed from A10-006K-PZ during each event. It has not been feasible to remove the DNAPL from A10-



006C-PZ due to the viscosity of the product at this location. The gauging information and approximate quantities removed during each event are provided on **Table 1**. Any NAPL that was removed has been placed in sealed drums stored adjacent to the delineation area. All of the NAPL removed from these piezometers will be characterized and disposed of at an off-site permitted disposal facility.

The NAPL impacts in the vicinity of A10-006-PZ have been adequately defined. Therefore, approval is requested to abandon the piezometers within the delineation area. The NAPL delineation piezometers will be gauged a final time on the abandonment date as recommended by the MDE, and subsequently abandoned in accordance with COMAR 26.04.04.34 through 36. The MDE will be notified if NAPL is detected in any piezometers which were not previously determined to be impacted.

Following the abandonment of the piezometers, test pitting using an excavator is proposed to further investigate the extent of NAPL impacts in the vicinity of A10-006-PZ. It is anticipated that the test pits will extend to a depth of approximately 13 feet bgs (top of clay). The MDE will be notified of any observations of NAPL identified during the test pitting, and a brief letter report will be prepared to summarize these field activities. Any additional response activities or future monitoring will be coordinated with the MDE pending the results of the test pitting investigation.

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

Tyler C. Van Ness

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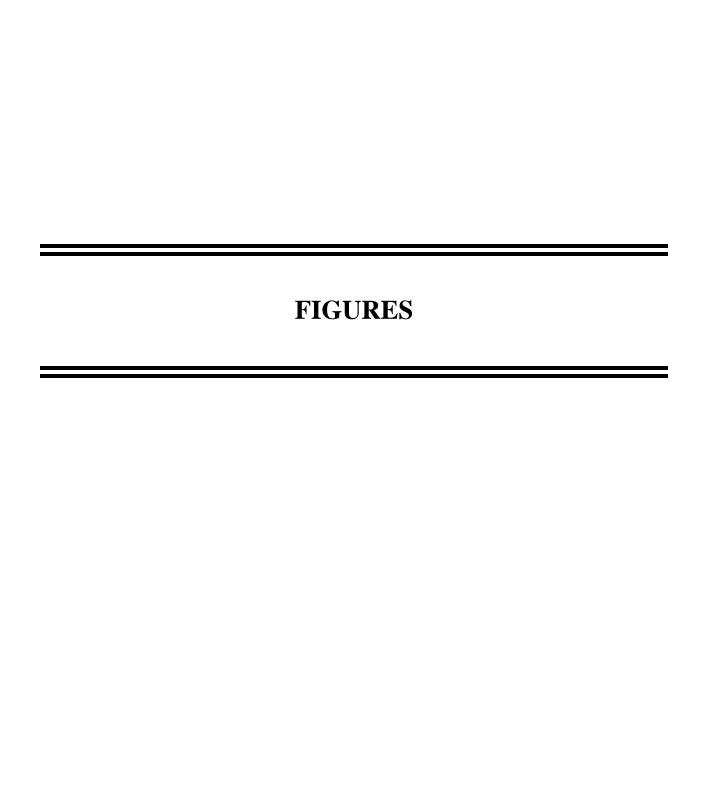
Staff Scientist

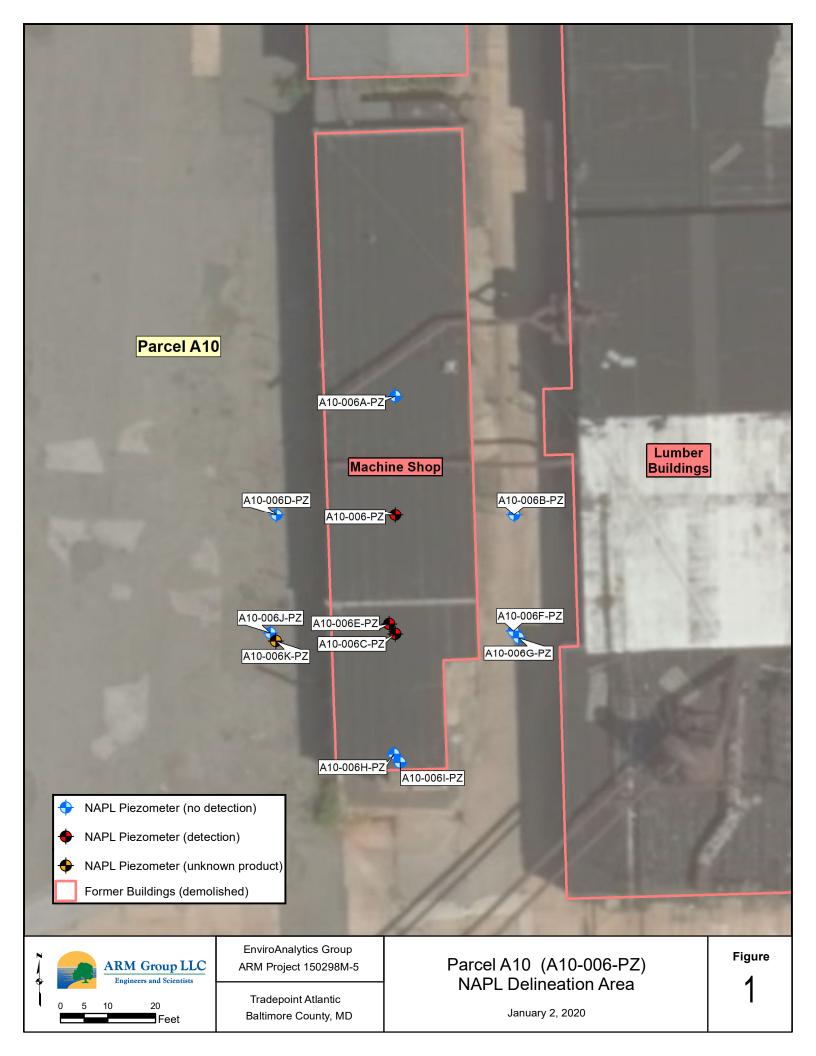
Eric S. Magdar, P.G.

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Vice President







TABLES

		Well				7/7/	2016			7/11/	/2016	
Sample ID	Installation Date	Total Depth (ft bgs)	Screen Interval (ft bgs)	Riser Stick-Up (ft)	Depth to NAPL (ft TOC)	Depth to Water (ft TOC)	Measured Depth to Bottom (ft TOC)	NAPL Thickness (ft)	Depth to NAPL (ft TOC)	Depth to Water (ft TOC)	Measured Depth to Bottom (ft TOC)	NAPL Thickness (ft)
A10-006-PZ	7/7/2016	14	4-14	2.88	-	11.78	16.88	-	-	9.82	16.00	-
A10-006A-PZ	1/15/2019	19	3-19	2.5	NA	NA	NA	NA	NA	NA	NA	NA
A10-006B-PZ	1/16/2019	28	5-28	2.37	NA	NA	NA	NA	NA	NA	NA	NA
A10-006C-PZ	1/16/2019	30	4-30	2.92	NA	NA	NA	NA	NA	NA	NA	NA
A10-006D-PZ	1/16/2019	15	3-15	2.45	NA	NA	NA	NA	NA	NA	NA	NA
A10-006E-PZ	1/16/2019	15	3-15	2.58	NA	NA	NA	NA	NA	NA	NA	NA
A10-006F-PZ	1/25/2019	30	15-30	2.95	NA	NA	NA	NA	NA	NA	NA	NA
A10-006G-PZ	1/25/2019	15	3-15	1.74	NA	NA	NA	NA	NA	NA	NA	NA
A10-006H-PZ	2/11/2019	30	15-30	3.02	NA	NA	NA	NA	NA	NA	NA	NA
A10-006I-PZ	2/11/2019	15	3-15	2.82	NA	NA	NA	NA	NA	NA	NA	NA
A10-006J-PZ	2/11/2019	30	15-30	2.81	NA	NA	NA	NA	NA	NA	NA	NA
A10-006K-PZ*	2/11/2019	15	3-15	2.51	NA	NA	NA	NA	NA	NA	NA	NA

NA = Not Applicable

NM = Not Measured

Pink = LNAPL Detection

Blue = DNAPL Detection

Purple = LNAPL & DNAPL Detection

Gray = Gray Product DNAPL Detection

bgs = below ground surface

		Well				8/26	/2016			7/31/	/2017	
Sample ID	Installation Date	Total Depth (ft bgs)	Screen Interval (ft bgs)	Riser Stick-Up (ft)	Depth to NAPL (ft TOC)	Depth to Water (ft TOC)	Measured Depth to Bottom (ft TOC)	NAPL Thickness (ft)	Depth to NAPL (ft TOC)	Depth to Water (ft TOC)	Measured Depth to Bottom (ft TOC)	NAPL Thickness (ft)
A10-006-PZ	7/7/2016	14	4-14	2.88	-	9.75	15.81	-	-	9.74	NM	-
A10-006A-PZ	1/15/2019	19	3-19	2.5	NA	NA	NA	NA	NA	NA	NA	NA
A10-006B-PZ	1/16/2019	28	5-28	2.37	NA	NA	NA	NA	NA	NA	NA	NA
A10-006C-PZ	1/16/2019	30	4-30	2.92	NA	NA	NA	NA	NA	NA	NA	NA
A10-006D-PZ	1/16/2019	15	3-15	2.45	NA	NA	NA	NA	NA	NA	NA	NA
A10-006E-PZ	1/16/2019	15	3-15	2.58	NA	NA	NA	NA	NA	NA	NA	NA
A10-006F-PZ	1/25/2019	30	15-30	2.95	NA	NA	NA	NA	NA	NA	NA	NA
A10-006G-PZ	1/25/2019	15	3-15	1.74	NA	NA	NA	NA	NA	NA	NA	NA
A10-006H-PZ	2/11/2019	30	15-30	3.02	NA	NA	NA	NA	NA	NA	NA	NA
A10-006I-PZ	2/11/2019	15	3-15	2.82	NA	NA	NA	NA	NA	NA	NA	NA
A10-006J-PZ	2/11/2019	30	15-30	2.81	NA	NA	NA	NA	NA	NA	NA	NA
A10-006K-PZ*	2/11/2019	15	3-15	2.51	NA	NA	NA	NA	NA	NA	NA	NA

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		XV a 11				1/4/	2019			1/15/	/2019	
Sample ID	Installation Date	Well Total Depth (ft bgs)	Screen Interval (ft bgs)	Riser Stick-Up (ft)	Depth to NAPL (ft TOC)	Depth to Water (ft TOC)	Measured Depth to Bottom (ft TOC)	NAPL Thickness (ft)	Depth to NAPL (ft TOC)	Depth to Water (ft TOC)	Measured Depth to Bottom (ft TOC)	NAPL Thickness (ft)
A10-006-PZ	7/7/2016	14	4-14	2.88	trace	8.45	15.06	trace	NM	NM	NM	NM
A10-006A-PZ	1/15/2019	19	3-19	2.5	NA	NA	NA	NA	-	11.11	20.17	-
A10-006B-PZ	1/16/2019	28	5-28	2.37	NA	NA	NA	NA	NA	NA	NA	NA
A10-006C-PZ	1/16/2019	30	4-30	2.92	NA	NA	NA	NA	NA	NA	NA	NA
A10-006D-PZ	1/16/2019	15	3-15	2.45	NA	NA	NA	NA	NA	NA	NA	NA
A10-006E-PZ	1/16/2019	15	3-15	2.58	NA	NA	NA	NA	NA	NA	NA	NA
A10-006F-PZ	1/25/2019	30	15-30	2.95	NA	NA	NA	NA	NA	NA	NA	NA
A10-006G-PZ	1/25/2019	15	3-15	1.74	NA	NA	NA	NA	NA	NA	NA	NA
A10-006H-PZ	2/11/2019	30	15-30	3.02	NA	NA	NA	NA	NA	NA	NA	NA
A10-006I-PZ	2/11/2019	15	3-15	2.82	NA	NA	NA	NA	NA	NA	NA	NA
A10-006J-PZ	2/11/2019	30	15-30	2.81	NA	NA	NA	NA	NA	NA	NA	NA
A10-006K-PZ*	2/11/2019	15	3-15	2.51	NA	NA	NA	NA	NA	NA	NA	NA

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		Well				1/16	/2019			1/17/	/2019	
Sample ID	Installation Date	Total Depth (ft bgs)	Screen Interval (ft bgs)		Depth to NAPL (ft TOC)	Depth to Water (ft TOC)	Measured Depth to Bottom (ft TOC)	NAPL Thickness (ft)	Depth to NAPL (ft TOC)	Depth to Water (ft TOC)	Measured Depth to Bottom (ft TOC)	NAPL Thickness (ft)
A10-006-PZ	7/7/2016	14	4-14	2.88	NM	NM	NM	NM	NM	NM	NM	NM
A10-006A-PZ	1/15/2019	19	3-19	2.5	NM	NM	NM	NM	-	10.50	16.15	-
A10-006B-PZ	1/16/2019	28	5-28	2.37	-	15.88	30.32	-	NM	NM	NM	NM
A10-006C-PZ	1/16/2019	30	4-30	2.92	17.74	17.76	29.98	0.02	NM	NM	NM	NM
A10-006D-PZ	1/16/2019	15	3-15	2.45	-	dry	16.73	-	NM	NM	NM	NM
A10-006E-PZ	1/16/2019	15	3-15	2.58	-	11.05	17.02	-	NM	NM	NM	NM
A10-006F-PZ	1/25/2019	30	15-30	2.95	NA	NA	NA	NA	NA	NA	NA	NA
A10-006G-PZ	1/25/2019	15	3-15	1.74	NA	NA	NA	NA	NA	NA	NA	NA
A10-006H-PZ	2/11/2019	30	15-30	3.02	NA	NA	NA	NA	NA	NA	NA	NA
A10-006I-PZ	2/11/2019	15	3-15	2.82	NA	NA	NA	NA	NA	NA	NA	NA
A10-006J-PZ	2/11/2019	30	15-30	2.81	NA	NA	NA	NA	NA	NA	NA	NA
A10-006K-PZ*	2/11/2019	15	3-15	2.51	NA	NA	NA	NA	NA	NA	NA	NA

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bgs = below ground surface

		Well				1/18/	/2019			1/23/	/2019	
Sample ID	Installation Date	Total Depth (ft bgs)	Screen Interval (ft bgs)		Depth to NAPL (ft TOC)	Depth to Water (ft TOC)	Measured Depth to Bottom (ft TOC)	NAPL Thickness (ft)	Depth to NAPL (ft TOC)	Depth to Water (ft TOC)	Measured Depth to Bottom (ft TOC)	NAPL Thickness (ft)
A10-006-PZ	7/7/2016	14	4-14	2.88	NM	NM	NM	NM	trace	9.89	15.58	trace
A10-006A-PZ	1/15/2019	19	3-19	2.5	NM	NM	NM	NM	-	10.50	16.14	-
A10-006B-PZ	1/16/2019	28	5-28	2.37	-	14.92	29.43	-	-	14.68	29.51	-
A10-006C-PZ	1/16/2019	30	4-30	2.92	14.09	-	29.85	18.83	13.92	12.64	28.59	19.00
A10-006D-PZ	1/16/2019	15	3-15	2.45	-	14.45	16.73	-	-	7.48	16.71	-
A10-006E-PZ	1/16/2019	15	3-15	2.58	8.65	14.20	16.32	5.55	9.76	13.65	16.29	3.89
A10-006F-PZ	1/25/2019	30	15-30	2.95	NA	NA	NA	NA	NA	NA	NA	NA
A10-006G-PZ	1/25/2019	15	3-15	1.74	NA	NA	NA	NA	NA	NA	NA	NA
A10-006H-PZ	2/11/2019	30	15-30	3.02	NA	NA	NA	NA	NA	NA	NA	NA
A10-006I-PZ	2/11/2019	15	3-15	2.82	NA	NA	NA	NA	NA	NA	NA	NA
A10-006J-PZ	2/11/2019	30	15-30	2.81	NA	NA	NA	NA	NA	NA	NA	NA
A10-006K-PZ*	2/11/2019	15	3-15	2.51	NA	NA	NA	NA	NA	NA	NA	NA

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		Well				1/25/	/2019			1/28/	/2019	
Sample ID	Installation Date	Total Depth (ft bgs)	Screen Interval (ft bgs)	Riser Stick-Up (ft)	Depth to NAPL (ft TOC)	Depth to Water (ft TOC)	Measured Depth to Bottom (ft TOC)	NAPL Thickness (ft)	Depth to NAPL (ft TOC)	Depth to Water (ft TOC)	Measured Depth to Bottom (ft TOC)	NAPL Thickness (ft)
A10-006-PZ	7/7/2016	14	4-14	2.88	NM	NM	NM	NM	NM	NM	NM	NM
A10-006A-PZ	1/15/2019	19	3-19	2.5	NM	NM	NM	NM	NM	NM	NM	NM
A10-006B-PZ	1/16/2019	28	5-28	2.37	NM	NM	NM	NM	NM	NM	NM	NM
A10-006C-PZ	1/16/2019	30	4-30	2.92	NM	NM	NM	NM	NM	NM	NM	NM
A10-006D-PZ	1/16/2019	15	3-15	2.45	NM	NM	NM	NM	NM	NM	NM	NM
A10-006E-PZ	1/16/2019	15	3-15	2.58	NM	NM	NM	NM	NM	NM	NM	NM
A10-006F-PZ	1/25/2019	30	15-30	2.95	-	14.56	32.50	-	-	15.15		-
A10-006G-PZ	1/25/2019	15	3-15	1.74	-	dry	16.78	-	-	7.04		-
A10-006H-PZ	2/11/2019	30	15-30	3.02	NA	NA	NA	NA	NA	NA	NA	NA
A10-006I-PZ	2/11/2019	15	3-15	2.82	NA	NA	NA	NA	NA	NA	NA	NA
A10-006J-PZ	2/11/2019	30	15-30	2.81	NA	NA	NA	NA	NA	NA	NA	NA
A10-006K-PZ*	2/11/2019	15	3-15	2.51	NA	NA	NA	NA	NA	NA	NA	NA

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		Well				2/11/	/2019			2/14/	/2019	
Sample ID	Installation Date	Total Depth (ft bgs)	Screen Interval (ft bgs)		Depth to NAPL (ft TOC)	Depth to Water (ft TOC)	Measured Depth to Bottom (ft TOC)	NAPL Thickness (ft)	Depth to NAPL (ft TOC)	Depth to Water (ft TOC)	Measured Depth to Bottom (ft TOC)	NAPL Thickness (ft)
A10-006-PZ	7/7/2016	14	4-14	2.88	NM	NM	NM	NM	NM	NM	NM	NM
A10-006A-PZ	1/15/2019	19	3-19	2.5	NM	NM	NM	NM	NM	NM	NM	NM
A10-006B-PZ	1/16/2019	28	5-28	2.37	NM	NM	NM	NM	NM	NM	NM	NM
A10-006C-PZ	1/16/2019	30	4-30	2.92	NM	NM	NM	NM	NM	NM	NM	NM
A10-006D-PZ	1/16/2019	15	3-15	2.45	NM	NM	NM	NM	NM	NM	NM	NM
A10-006E-PZ	1/16/2019	15	3-15	2.58	NM	NM	NM	NM	NM	NM	NM	NM
A10-006F-PZ	1/25/2019	30	15-30	2.95	NM	NM	NM	NM	NM	NM	NM	NM
A10-006G-PZ	1/25/2019	15	3-15	1.74	NM	NM	NM	NM	NM	NM	NM	NM
A10-006H-PZ	2/11/2019	30	15-30	3.02	-	15.73	27.72	-	-	15.00		-
A10-006I-PZ	2/11/2019	15	3-15	2.82	-	9.61	15.08	-	-	8.59		-
A10-006J-PZ	2/11/2019	30	15-30	2.81	-	13.24	32.08	-	-	13.94		-
A10-006K-PZ*	2/11/2019	15	3-15	2.51	-	7.85	16.42	-	-	7.53		-

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Blue = DNAPL Detection

Purple = LNAPL & DNAPL Detection

Gray = Gray Product DNAPL Detection

bgs = below ground surface

		Well				2/18/	/2019			2/26/	/2019	
Sample ID	Installation Date	Total Depth (ft bgs)	Screen Interval (ft bgs)	Riser Stick-Up (ft)	Depth to NAPL (ft TOC)	Depth to Water (ft TOC)	Measured Depth to Bottom (ft TOC)	NAPL Thickness (ft)	Depth to NAPL (ft TOC)	Depth to Water (ft TOC)	Measured Depth to Bottom (ft TOC)	NAPL Thickness (ft)
A10-006-PZ	7/7/2016	14	4-14	2.88	NM	NM	NM	NM	NM	NM	NM	NM
A10-006A-PZ	1/15/2019	19	3-19	2.5	-	10.40	15.09	-	NM	NM	NM	NM
A10-006B-PZ	1/16/2019	28	5-28	2.37	-	14.59	29.33	-	NM	NM	NM	NM
A10-006C-PZ	1/16/2019	30	4-30	2.92	16.04	13.59	21.92	16.88	NM	NM	NM	NM
A10-006D-PZ	1/16/2019	15	3-15	2.45	-	7.47	16.72	-	NM	NM	NM	NM
A10-006E-PZ	1/16/2019	15	3-15	2.58	8.61	11.70	15.95	3.09	NM	NM	NM	NM
A10-006F-PZ	1/25/2019	30	15-30	2.95	NM	NM	NM	NM	-	15.08	32.24	-
A10-006G-PZ	1/25/2019	15	3-15	1.74	NM	NM	NM	NM	-	6.26	16.27	-
A10-006H-PZ	2/11/2019	30	15-30	3.02	NM	NM	NM	NM	NM	NM	NM	NM
A10-006I-PZ	2/11/2019	15	3-15	2.82	NM	NM	NM	NM	NM	NM	NM	NM
A10-006J-PZ	2/11/2019	30	15-30	2.81	NM	NM	NM	NM	NM	NM	NM	NM
A10-006K-PZ*	2/11/2019	15	3-15	2.51	NM	NM	NM	NM	NM	NM	NM	NM

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		Well				2/28/	/2019			8/8/	2019	
Sample ID	Installation Date	Total Depth (ft bgs)	Screen Interval (ft bgs)	Riser Stick-Up (ft)	Depth to NAPL (ft TOC)	Depth to Water (ft TOC)	Measured Depth to Bottom (ft TOC)	NAPL Thickness (ft)	Depth to NAPL (ft TOC)	Depth to Water (ft TOC)	Measured Depth to Bottom (ft TOC)	NAPL Thickness (ft)
A10-006-PZ	7/7/2016	14	4-14	2.88	NM	NM	NM	NM	NM	NM	NM	NM
A10-006A-PZ	1/15/2019	19	3-19	2.5	-	10.45	15.73	-	-	10.68	15.36	-
A10-006B-PZ	1/16/2019	28	5-28	2.37	-	11.58	29.03	-	NM	NM	NM	NM
A10-006C-PZ	1/16/2019	30	4-30	2.92	NM	NM	NM	NM	NM	NM	NM	NM
A10-006D-PZ	1/16/2019	15	3-15	2.45	-	7.47	16.88	-	-	8.10	16.73	-
A10-006E-PZ	1/16/2019	15	3-15	2.58	NM	NM	NM	NM	NM	NM	NM	NM
A10-006F-PZ	1/25/2019	30	15-30	2.95	-	15.12	31.28	-	NM	NM	NM	NM
A10-006G-PZ	1/25/2019	15	3-15	1.74	-	6.74	16.76	-	NM	NM	NM	NM
A10-006H-PZ	2/11/2019	30	15-30	3.02	-	15.18	32.69	-	NM	NM	NM	NM
A10-006I-PZ	2/11/2019	15	3-15	2.82	-	8.79	15.74	-	NM	NM	NM	NM
A10-006J-PZ	2/11/2019	30	15-30	2.81	-	14.02	32.07	-	NM	NM	NM	NM
A10-006K-PZ*	2/11/2019	15	3-15	2.51	-	7.74	16.03	-	NM	NM	NM	NM

NA = Not Applicable

NM = Not Measured

Pink = LNAPL Detection

Blue = DNAPL Detection

Purple = LNAPL & DNAPL Detection

Gray = Gray Product DNAPL Detection

bgs = below ground surface

		Well				8/13/	/2019			11/	19/2019		
Sample ID	Installation Date	Total Depth (ft bgs)	Screen Interval (ft bgs)	Riser Stick-Up (ft)	Depth to NAPL (ft TOC)	Depth to Water (ft TOC)	Measured Depth to Bottom (ft TOC)	NAPL Thickness (ft)	Depth to NAPL (ft TOC)	Depth to Water (ft TOC)	Measured Depth to Bottom (ft TOC)	NAPL Thickness (ft)	NAPL Removed (gallons)
A10-006-PZ	7/7/2016	14	4-14	2.88	-	10.42	15.54	-	trace	10.44	15.41	trace	NA
A10-006A-PZ	1/15/2019	19	3-19	2.5	1	10.77	15.50	-	ı	10.79	15.23	-	NA
A10-006B-PZ	1/16/2019	28	5-28	2.37	-	15.95	28.70	-	-	15.59	28.55	-	NA
A10-006C-PZ	1/16/2019	30	4-30	2.92	14.03	13.55	28.43	18.89	trace LNAPL/ 15.22 DNAPL	13.41	28.38	17.70	NA
A10-006D-PZ	1/16/2019	15	3-15	2.45	1	8.41	16.75	-	ı	8.20	10.08	-	NA
A10-006E-PZ	1/16/2019	15	3-15	2.58	8.70	12.91	15.87	4.21	9.00	11.95	15.85	2.95	0.12
A10-006F-PZ	1/25/2019	30	15-30	2.95	-	16.58	30.76	-	-	16.33	30.62	-	NA
A10-006G-PZ	1/25/2019	15	3-15	1.74	1	8.36	16.28	-	ı	8.44	10.12	-	NA
A10-006H-PZ	2/11/2019	30	15-30	3.02	1	16.17	32.02	-	ı	15.53	31.57	-	NA
A10-006I-PZ	2/11/2019	15	3-15	2.82	-	9.75	15.50	-	-	9.80	15.01	-	NA
A10-006J-PZ	2/11/2019	30	15-30	2.81	-	15.44	31.99	-	-	15.24	31.86	-	NA
A10-006K-PZ*	2/11/2019	15	3-15	2.51	7.98	7.98	12.02	9.53	10.12	7.90	10.12	7.39	0.30

NA = Not Applicable NM = Not Measured

Pink = LNAPL Detection

Blue = DNAPL Detection

Purple = LNAPL & DNAPL Detection

 $\boldsymbol{Gray} = \boldsymbol{Gray} \; \boldsymbol{Product} \; \boldsymbol{DNAPL} \; \boldsymbol{Detection}$

bgs = below ground surface TOC = Top of Casing * A10-006K-PZ contained a pale gray, moderately thick product throughout the water column. No odor was evident and the oil-water interface probe was not reactive to the product. A sample of product was removed from the piezometer using a bailer and stored in a glass jar for observation.

		Well					12/2/2019				12/	/9/2019		
Sample ID	Installation Date		Screen Interval (ft bgs)	Riser Stick-Up (ft)	Depth to NAPL (ft TOC)	Depth to Water (ft TOC)	Measured Depth to Bottom (ft TOC)	NAPL Thickness (ft)	NAPL Removed (gallons)	Depth to NAPL (ft TOC)	Depth to Water (ft TOC)	Measured Depth to Bottom (ft TOC)	NAPL Thickness (ft)	NAPL Removed (gallons)
A10-006-PZ	7/7/2016	14	4-14	2.88	trace	10.31	15.34	trace	NA	-	10.26	15.32	-	NA
A10-006A-PZ	1/15/2019	19	3-19	2.5	1	10.61	15.30	-	NA	-	10.59	15.27	-	NA
A10-006B-PZ	1/16/2019	28	5-28	2.37	1	15.77	28.61	-	NA	1	15.74	28.44	-	NA
A10-006C-PZ	1/16/2019	30	4-30	2.92	15.26	15.21	28.11	17.66	NA	trace LNAPL/ 16.20 DNAPL	14.92	28.05	16.72	NA
A10-006D-PZ	1/16/2019	15	3-15	2.45	1	2.40	18.11	-	NA	•	8.00	16.74	-	NA
A10-006E-PZ	1/16/2019	15	3-15	2.58	9.00	10.41	15.92	1.41	0.06	8.99	9.80	15.91	0.81	0.03
A10-006F-PZ	1/25/2019	30	15-30	2.95	-	16.12	30.69	-	NA	-	16.25	30.62	-	NA
A10-006G-PZ	1/25/2019	15	3-15	1.74	1	5.37	16.30	-	NA	•	8.23	10.12	-	NA
A10-006H-PZ	2/11/2019	30	15-30	3.02	-	15.58	31.44	-	NA	-	15.76	31.30	-	NA
A10-006I-PZ	2/11/2019	15	3-15	2.82	-	9.11	15.04	-	NA	-	9.47	15.02	-	NA
A10-006J-PZ	2/11/2019	30	15-30	2.81	-	15.05	27.59	-	NA	-	15.18	31.86	-	NA
A10-006K-PZ*	2/11/2019	15	3-15	2.51	10.81	7.70	10.81	6.70	0.27	10.00	7.86	10.68	7.51	0.31

NA = Not Applicable NM = Not Measured

Pink = LNAPL Detection

Blue = DNAPL Detection

Purple = LNAPL & DNAPL Detection

Gray = Gray Product DNAPL Detection

bgs = below ground surface

TOC = Top of Casing

* A10-006K-PZ contained a pale gray, moderately thick product throughout the water column. No odor was evident and the oil-water interface probe was not reactive to the product. A sample of product was removed from the piezometer using a bailer and stored in a glass jar for observation.

		Well					12/17/2019		
Sample ID	Installation Date		Screen Interval (ft bgs)	Riser Stick-Up (ft)	Depth to NAPL (ft TOC)	Depth to Water (ft TOC)	Measured Depth to Bottom (ft TOC)	NAPL Thickness (ft)	NAPL Removed (gallons)
A10-006-PZ	7/7/2016	14	4-14	2.88	-	10.00	15.39	-	NA
A10-006A-PZ	1/15/2019	19	3-19	2.5	-	10.31	15.23	-	NA
A10-006B-PZ	1/16/2019	28	5-28	2.37	-	15.06	28.42	-	NA
A10-006C-PZ	1/16/2019	30	4-30	2.92	14.62	14.11	29.92	18.30	NA
A10-006D-PZ	1/16/2019	15	3-15	2.45	-	7.70	10.11	-	NA
A10-006E-PZ	1/16/2019	15	3-15	2.58	8.78	10.21	16.91	1.43	0.06
A10-006F-PZ	1/25/2019	30	15-30	2.95	-	15.62	30.64	-	NA
A10-006G-PZ	1/25/2019	15	3-15	1.74	-	4.84	10.12	-	NA
A10-006H-PZ	2/11/2019	30	15-30	3.02	-	15.33	17.79	-	NA
A10-006I-PZ	2/11/2019	15	3-15	2.82	-	8.68	15.00	-	NA
A10-006J-PZ	2/11/2019	30	15-30	2.81	-	14.56	27.57	-	NA
A10-006K-PZ*	2/11/2019	15	3-15	2.51	-	7.76	10.13	-	NA

NA = Not Applicable

NM = Not Measured

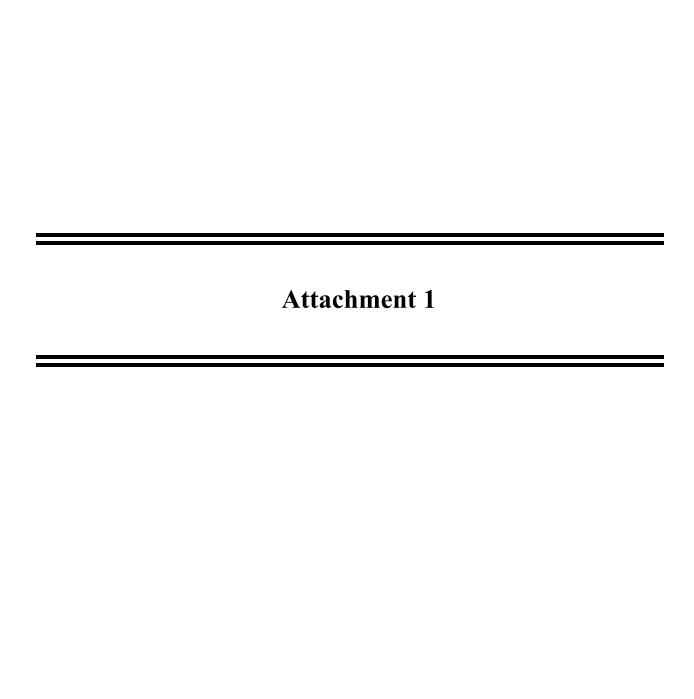
Pink = LNAPL Detection

Blue = DNAPL Detection

Purple = LNAPL & DNAPL Detection

Gray = Gray Product DNAPL Detection

bgs = below ground surface





Boring ID: A10-006-SB/PZ

(page 1 of 1)

Client : EnviroAnalytics Group

ARM Project No. : 150298M-5-3

Project Description : Sparrows Point - Parcel A10 Site Location : Sparrows Point. MD

ARM Representative : L. Perrin

Checked by : M. Replogle, E.I.T.
Drilling Company : Green Services, Inc.

Driller : Don Marchese
Drilling Equipment : Geoprobe 7822DT

Casing/Riser/Screen Type : PVC
Borehole Diameter : 2.25"
Riser/Screen Diameter : 1"
Northing (US ft) : 571203.33
Fasting (US ft) : 1464836 11

: 7/7/2016

: 7/7/2016

Soil Boring Installation Date

Piezometer Installation Date

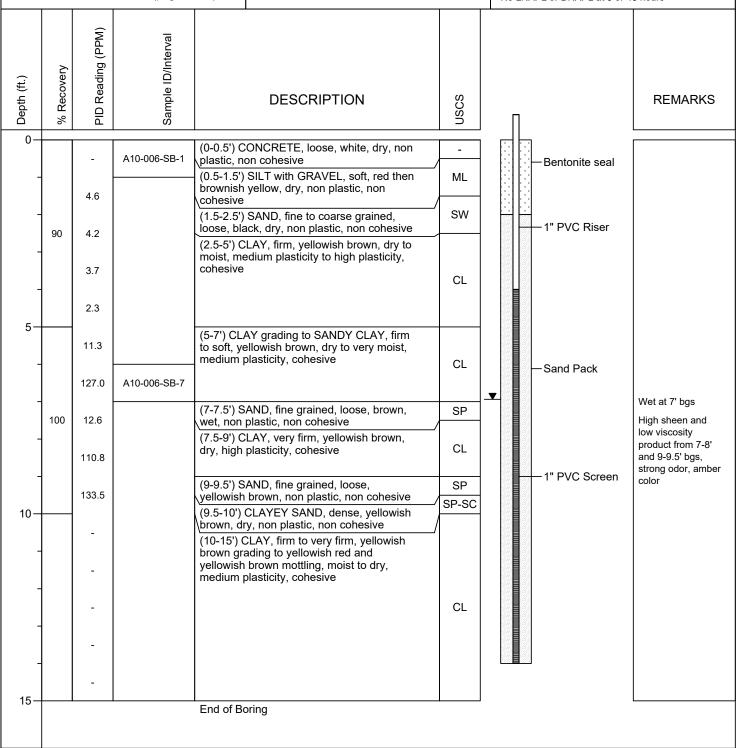
Northing (US ft) : 571203.33

Easting (US ft) : 1464836.17

0-Hr DTW : 11.78' TOC

48-Hr DTW : 9.82' TOC

No LNAPL or DNAPL at 0 or 48 hours



Boring terminated at 15' bgs due to water and piezometer installation.

TOC: Top of PVC casing DTW: Depth to water bgs: Below ground surface AMSL: Above mean sea level Riser Stickup: 2.88' Riser: 0 - 4' bgs

Screen: 4 - 14' bgs [Slot Size: 0.010"]
Sand Pack: 2 - 14' bgs [Grain Size: WG #2]

Bentonite Seal: 0 - 2' bgs [Grain Size: Granular/3/8" chips]



Boring ID: A10-006A-SB/PZ

(page 1 of 1)

Client : EnviroAnalytics Group

ARM Project No. : 150298M-5-3

Project Description : Sparrows Point - Parcel A10 Site Location : Sparrows Point, MD

ARM Representative : L. Perrin

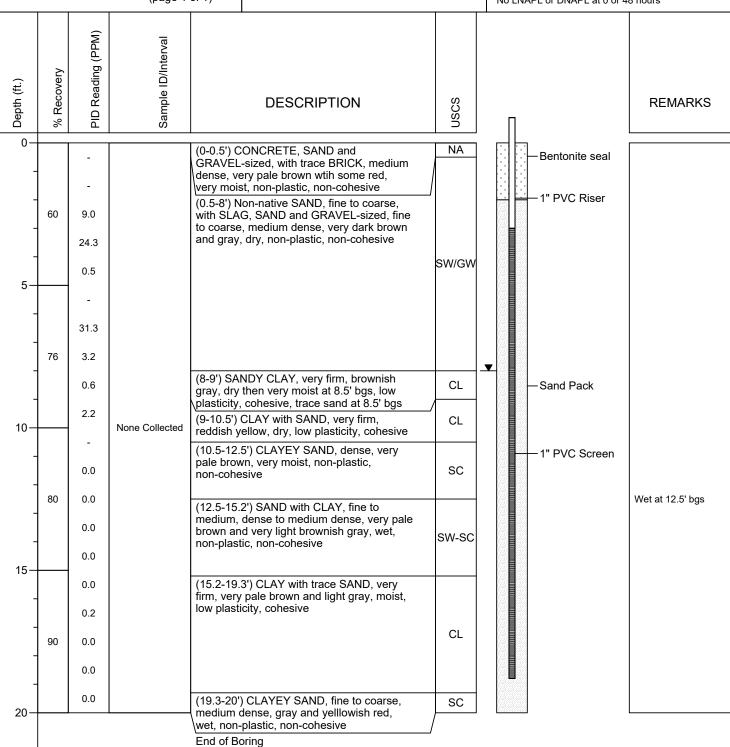
Checked by : M. Replogle, EIT
Drilling Company : Allied Well Drilling

Driller : Tim Moyer
Drilling Equipment : Geoprobe 77DT

Soil Boring Installation Date : 01/15/2019
Piezometer Installation Date : 01/15/2019
Casing/Riser/Screen Type : PVC
Borehole Diameter : 2.25"
Riser/Screen Diameter : 1"

Northing (US ft) : 571228.33

Easting (US ft) : 1464836.17
0-Hr DTW : 11.11' TOC
48-Hr DTW : 10.50' TOC
No LNAPL or DNAPL at 0 or 48 hours



Boring terminated at 20' bgs due to water and piezometer installation.

TOC: Top of PVC casing DTW: Depth to water bgs: Below ground surface AMSL: Above mean sea level Riser Stickup: 2.5' Riser: 0 - 3' bgs

Screen: 3 - 19' bgs [Slot Size: 0.010"] Sand Pack: 2 - 19' bgs [Grain Size: WG #2] Bentonite Seal: 0 - 2' bgs [Grain Size: 3/8" chips]



Boring ID: A10-006B-SB/PZ

(page 1 of 1)

Client : EnviroAnalytics Group

ARM Project No. : 150298M-5-3

Project Description : Sparrows Point - Parcel A10

Site Location : Sparrows Point, MD
ARM Representative : L. Perrin

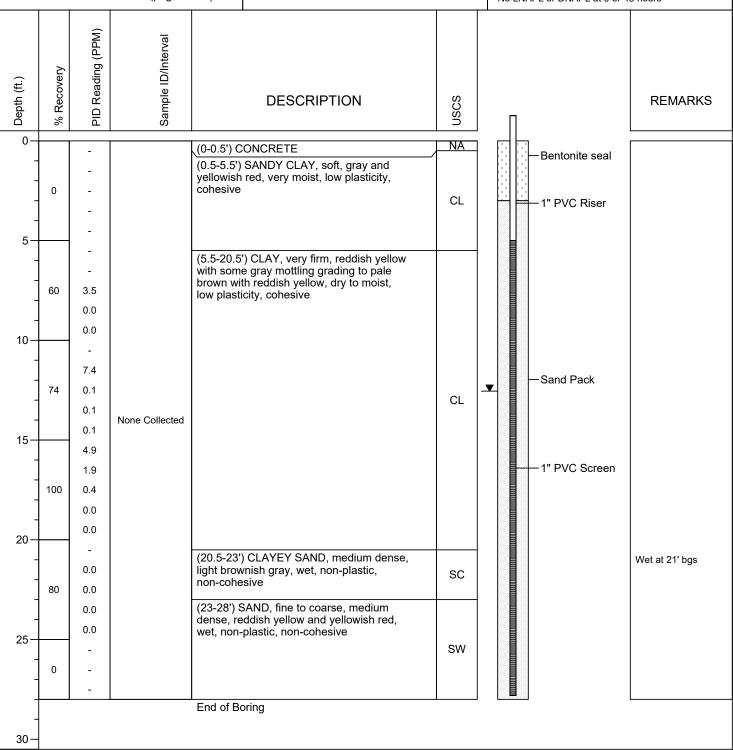
Checked by : M. Replogle, EIT
Drilling Company : Allied Well Drilling

Driller : Tim Moyer
Drilling Equipment : Geoprobe 77DT

Soil Boring Installation Date : 01/15/2019
Piezometer Installation Date : 01/16/2019
Casing/Riser/Screen Type : PVC
Borehole Diameter : 2.25"
Riser/Screen Diameter : 1"

Northing (US ft) : 571203.33

Easting (US ft) : 1464861.17
0-Hr DTW : 15.88' TOC
48-Hr DTW : 14.92' TOC
No LNAPL or DNAPL at 0 or 48 hours



Boring terminated at 28' bgs due to water and piezometer installation.

TOC: Top of PVC casing DTW: Depth to water bgs: Below ground surface AMSL: Above mean sea level Riser Stickup: 2.37' Riser: 0 - 5' bgs

Screen: 5 - 28' bgs [Slot Size: 0.010"] Sand Pack: 3 - 28' bgs [Grain Size: WG #2] Bentonite Seal: 0 - 3' bgs [Grain Size: 3/8" chips]



Boring ID: A10-006C-SB/PZ

(page 1 of 1)

Client : EnviroAnalytics Group

ARM Project No. : 150298M-5-3

Project Description : Sparrows Point - Parcel A10 Site Location : Sparrows Point, MD

ARM Representative : L. Perrin

Checked by : M. Replogle, EIT

Drilling Company : Allied Well Drilling

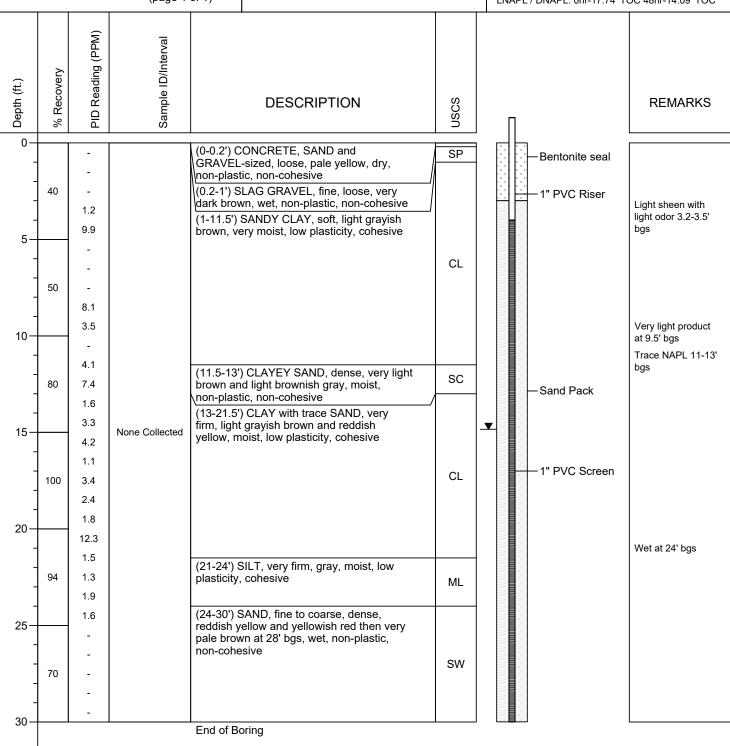
Driller : Tim Moyer

Drilling Equipment : Geoprobe 77DT

Soil Boring Installation Date : 01/16/2019
Piezometer Installation Date : 01/16/2019
Casing/Riser/Screen Type : PVC
Borehole Diameter : 2.25"
Riser/Screen Diameter : 1"

Northing (US ft) : 571178.33 Easting (US ft) : 1464836.17 0-Hr DTW : 17.76' TOC 48-Hr DTW : NA

LNAPL / DNAPL: 0hr-17.74' TOC 48hr-14.09' TOC



Boring terminated at 30' bgs due to water and piezometer installation.

TOC: Top of PVC casing DTW: Depth to water bgs: Below ground surface AMSL: Above mean sea level Riser Stickup: 2.92' Riser: 0 - 4' bgs

Screen: 4 - 30' bgs [Slot Size: 0.010"] Sand Pack: 3 - 30' bgs [Grain Size: WG #2] Bentonite Seal: 0 - 3' bgs [Grain Size: 3/8" chips]



Boring ID: A10-006D-SB/PZ

(page 1 of 1)

Client : EnviroAnalytics Group

ARM Project No. : 150298M-5-3

Project Description : Sparrows Point - Parcel A10 Site Location : Sparrows Point, MD

ARM Representative : L. Perrin

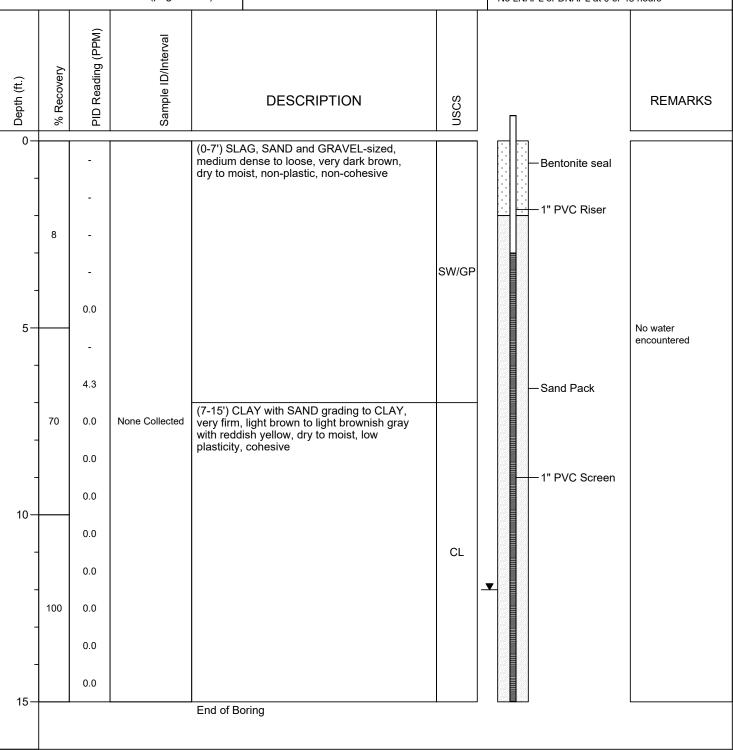
Checked by : M. Replogle, EIT

Drilling Company : Allied Well Drilling

Driller : Tim Moyer
Drilling Equipment : Geoprobe 77DT

Soil Boring Installation Date : 01/16/2019
Piezometer Installation Date : 01/16/2019
Casing/Riser/Screen Type : PVC
Borehole Diameter : 2.25"
Riser/Screen Diameter : 1"
Northing (US ft) : 571203.33

Easting (US ft) : 1464811.17
0-Hr DTW : DRY
48-Hr DTW : 14.45' TOC
No LNAPL or DNAPL at 0 or 48 hours



Boring terminated at 15' bgs due to water and piezometer installation.

TOC: Top of PVC casing DTW: Depth to water bgs: Below ground surface AMSL: Above mean sea level Riser Stickup: 2.45' Riser: 0 - 3' bgs

Screen: 3 - 15' bgs [Slot Size: 0.010"] Sand Pack: 2 - 15' bgs [Grain Size: WG #2] Bentonite Seal: 0 - 2' bgs [Grain Size: 3/8" chips]



Boring ID: A10-006E-SB/PZ

(page 1 of 1)

Client : EnviroAnalytics Group

ARM Project No. : 150298M-5-3

Project Description : Sparrows Point - Parcel A10 Site Location : Sparrows Point, MD

ARM Representative : L. Perrin

Checked by : M. Replogle, EIT

Drilling Company : Allied Well Drilling

Driller : Tim Moyer
Drilling Equipment : Geoprobe 77DT

Soil Boring Installation Date : 01/16/2019
Piezometer Installation Date : 01/16/2019
Casing/Riser/Screen Type : PVC
Borehole Diameter : 2.25"
Riser/Screen Diameter : 1"

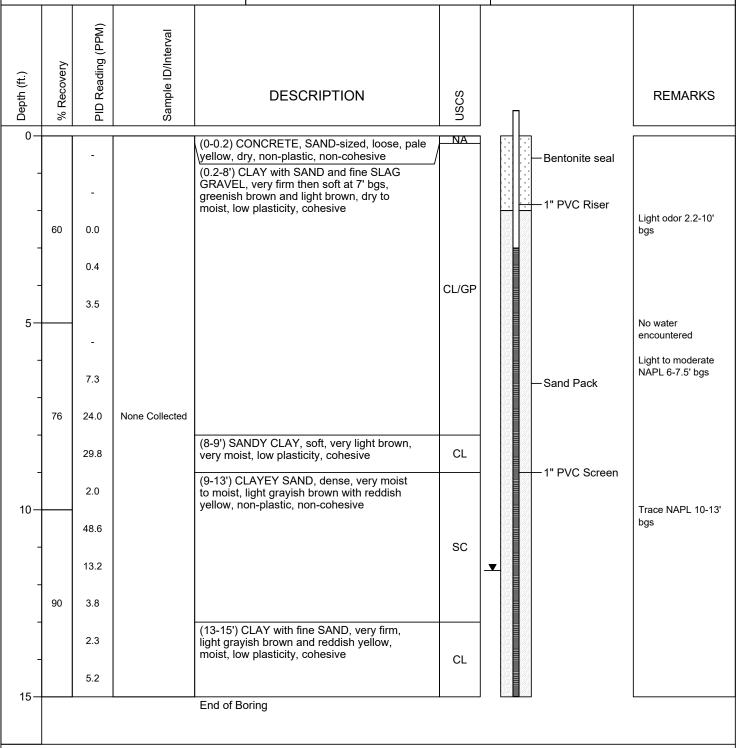
 Northing (US ft)
 : 571180.46

 Easting (US ft)
 : 1464834.90

 0-Hr DTW
 : 11.05' TOC

 48-Hr DTW
 : 14.20' TOC

 LNAPL / DNAPL: 0hr-Trace
 48hr-8.65' TOC



Boring terminated at 15' bgs due to maximum depth and piezometer installation.

TOC: Top of PVC casing DTW: Depth to water

bgs: Below ground surface
AMSL: Above mean sea level

Riser Stickup: 2.58' Riser: 0 - 3' bgs

Screen: 3 - 15' bgs [Slot Size: 0.010"] Sand Pack: 2 - 15' bgs [Grain Size: WG #2] Bentonite Seal: 0 - 2' bgs [Grain Size: 3/8" chips]



Boring ID: A10-006F-SB/PZ

(page 1 of 1)

Client : EnviroAnalytics Group

ARM Project No. : 150298M-5-3

Project Description : Sparrows Point - Parcel A10 Site Location : Sparrows Point, MD

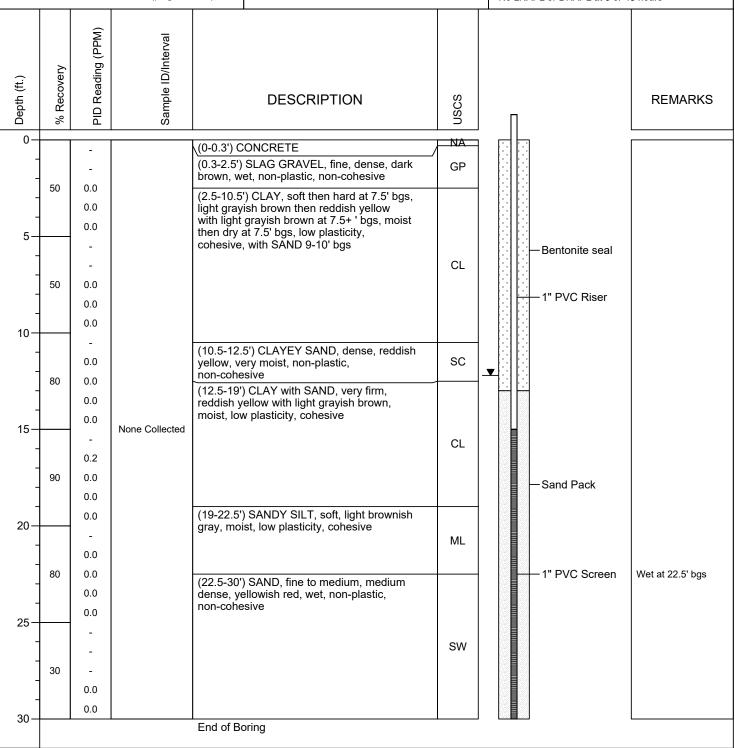
ARM Representative : L. Perrin

Checked by : M. Replogle, EIT
Drilling Company : Allied Well Drilling

Driller : Tim Moyer
Drilling Equipment : Geoprobe 77DT

Soil Boring Installation Date : 01/25/2019
Piezometer Installation Date : 01/25/2019
Casing/Riser/Screen Type : PVC
Borehole Diameter : 2.25"
Riser/Screen Diameter : 1"

Northing (US ft) : 571178.97
Easting (US ft) : 1464861.01
0-Hr DTW : 14.56' TOC
48-Hr DTW : 15.15' TOC
No LNAPL or DNAPL at 0 or 48 hours



Boring terminated at 30' bgs due to water and piezometer installation.

TOC: Top of PVC casing DTW: Depth to water bgs: Below ground surface AMSL: Above mean sea level Riser Stickup: 2.95' Riser: 0 - 15' bgs

Screen: 15 - 30' bgs [Slot Size: 0.010"]
Sand Pack: 13 - 30' bgs [Grain Size: WG #2]
Bentonite Seal: 0 - 13' bgs [Grain Size: 3/8" chips]



Boring ID: A10-006G-SB/PZ

(page 1 of 1)

Client : EnviroAnalytics Group

ARM Project No. : 150298M-5-3

Project Description : Sparrows Point - Parcel A10 Site Location : Sparrows Point, MD

ARM Representative : L. Perrin

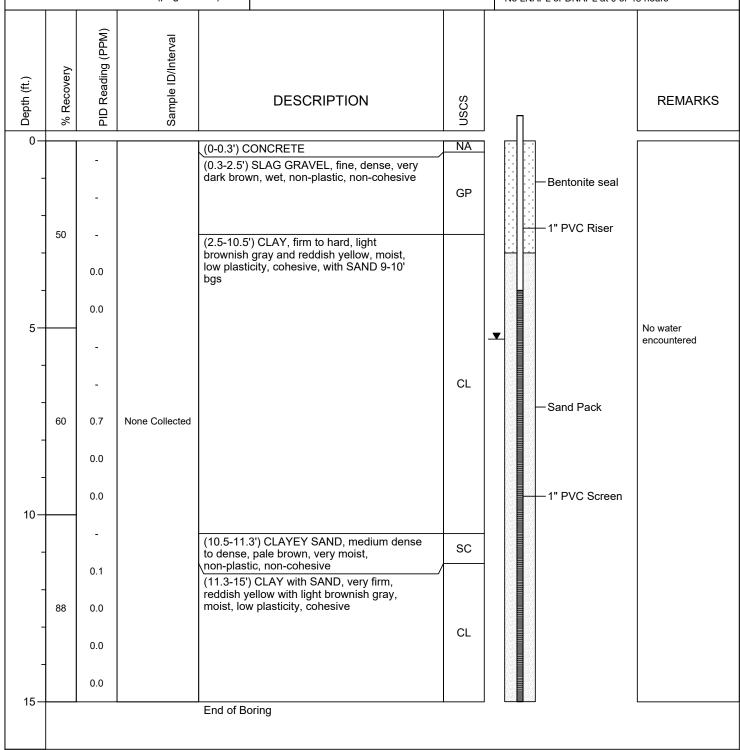
Checked by : M. Replogle, EIT

Drilling Company : Allied Well Drilling

Driller : Tim Moyer
Drilling Equipment : Geoprobe 77DT

Soil Boring Installation Date : 01/25/2019
Piezometer Installation Date : 01/25/2019
Casing/Riser/Screen Type : PVC
Borehole Diameter : 2.25"
Riser/Screen Diameter : 1"

Northing (US ft) : 571178.97
Easting (US ft) : 1464861.01
0-Hr DTW : DRY
48-Hr DTW : 7.04' TOC
No LNAPL or DNAPL at 0 or 48 hours



Boring terminated at 15' bgs due to maximum depth and piezometer installation.

TOC: Top of PVC casing DTW: Depth to water bgs: Below ground surface AMSL: Above mean sea level Riser Stickup: 1.74' Riser: 0 - 3' bgs

Screen: 3 - 15' bgs [Slot Size: 0.010"]
Sand Pack: 2- 15' bgs [Grain Size: WG #2]
Bentonite Seal: 0 - 2' bgs [Grain Size: 3/8" chips]



Boring ID: A10-006H-SB/PZ

(page 1 of 1)

Client : EnviroAnalytics Group

ARM Project No. : 150298M-5-3

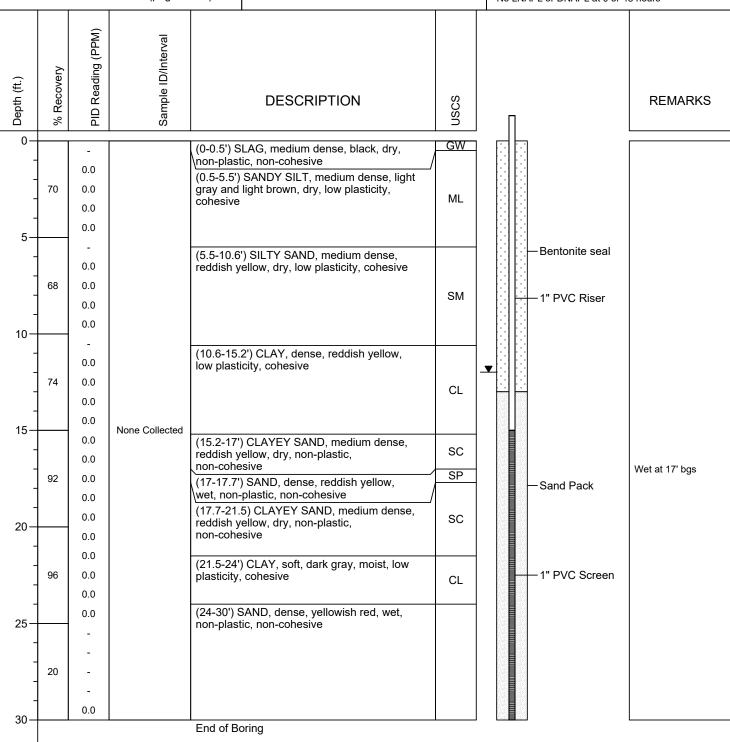
Project Description : Sparrows Point - Parcel A10

Site Location : Sparrows Point, MD
ARM Representative : L. Glumac
Checked by : M. Replogle, EIT
Drilling Company : Allied Well Drilling

Driller : Tim Moyer
Drilling Equipment : Geoprobe 77DT

Soil Boring Installation Date : 02/11/2019
Piezometer Installation Date : 02/11/2019
Casing/Riser/Screen Type : PVC
Borehole Diameter : 2.25"
Riser/Screen Diameter : 1"

Northing (US ft) : 571153.00
Easting (US ft) : 1464835.90
0-Hr DTW : 15.73' TOC
72-Hr DTW : 15.00' TOC
No LNAPL or DNAPL at 0 or 48 hours



Boring terminated at 30' bgs due to water and piezometer installation.

TOC: Top of PVC casing DTW: Depth to water bgs: Below ground surface AMSL: Above mean sea level Riser Stickup: 3.02' Riser: 0 - 15' bgs

Screen: 15 - 30' bgs [Slot Size: 0.010"]
Sand Pack: 13 - 30' bgs [Grain Size: WG #2]
Bentonite Seal: 0 - 13' bgs [Grain Size: 3/8" chips]



Boring ID: A10-006I-SB/PZ

(page 1 of 1)

Client : EnviroAnalytics Group

ARM Project No. : 150298M-5-3

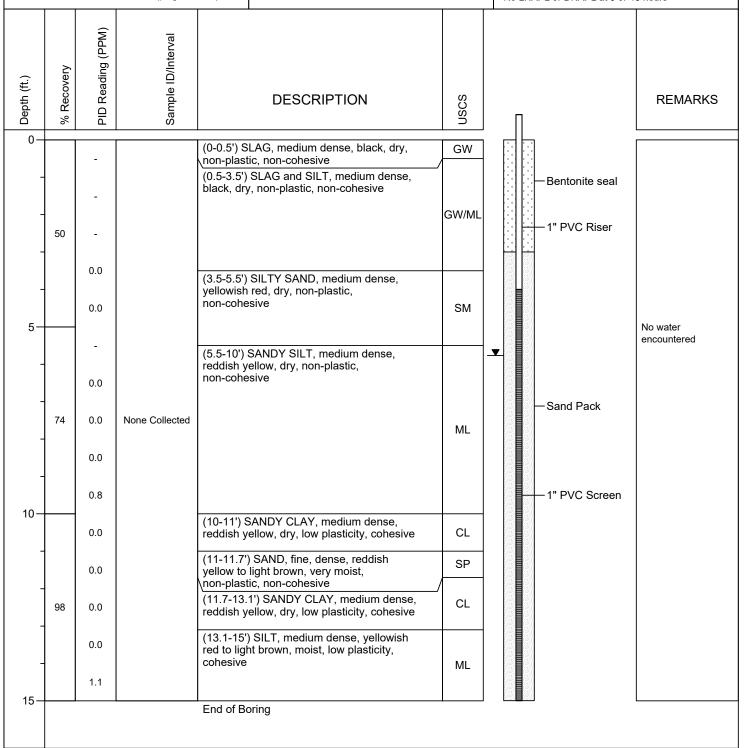
Project Description : Sparrows Point - Parcel A10 Site Location : Sparrows Point. MD

Site Location : Sparrows Point, MD
ARM Representative : L. Glumac
Checked by : M. Replogle, EIT
Drilling Company : Allied Well Drilling

Driller : Tim Moyer
Drilling Equipment : Geoprobe 77DT

Soil Boring Installation Date : 02/11/2019
Piezometer Installation Date : 02/11/2019
Casing/Riser/Screen Type : PVC
Borehole Diameter : 2.25"
Riser/Screen Diameter : 1"

Northing (US ft) : 571153.00
Easting (US ft) : 1464835.90
0-Hr DTW : 9.61' TOC
72-Hr DTW : 8.59' TOC
No LNAPL or DNAPL at 0 or 48 hours



Boring terminated at 15' bgs due to maximum depth and piezometer installation.

TOC: Top of PVC casing DTW: Depth to water bgs: Below ground surface AMSL: Above mean sea level Riser Stickup: 2.82' Riser: 0 - 3' bgs

Screen: 3 - 15' bgs [Slot Size: 0.010"]
Sand Pack: 2- 15' bgs [Grain Size: WG #2]
Bentonite Seal: 0 - 2' bgs [Grain Size: 3/8" chips]



Boring ID: A10-006J-SB/PZ

(page 1 of 1)

Client : EnviroAnalytics Group

ARM Project No. : 150298M-5-3

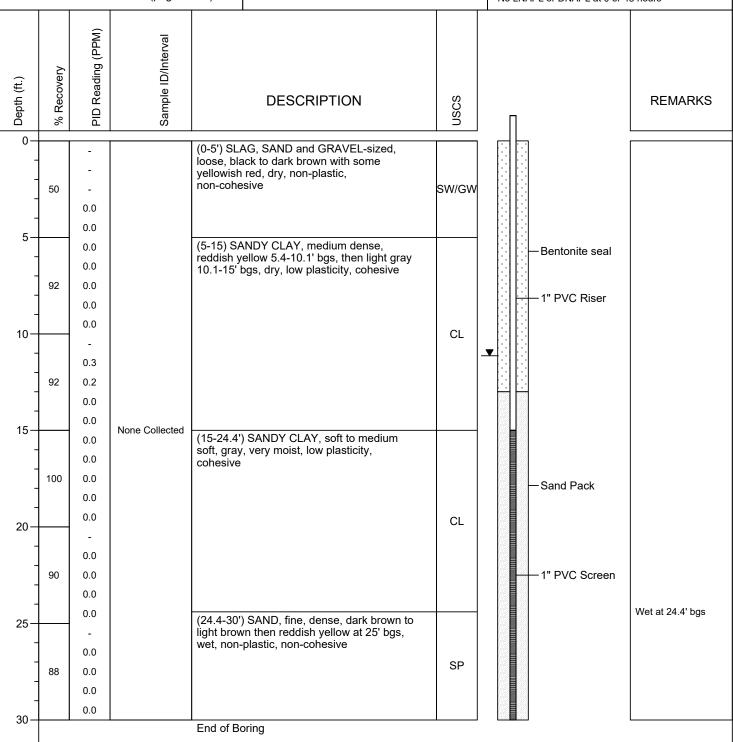
Project Description : Sparrows Point - Parcel A10 Site Location : Sparrows Point. MD

Site Location : Sparrows Point, MD
ARM Representative : L. Glumac
Checked by : M. Replogle, EIT
Drilling Company : Allied Well Drilling

Driller : Tim Moyer
Drilling Equipment : Geoprobe 77DT

Soil Boring Installation Date : 02/11/2019
Piezometer Installation Date : 02/11/2019
Casing/Riser/Screen Type : PVC
Borehole Diameter : 2.25"
Riser/Screen Diameter : 1"

Northing (US ft) : 571178.57
Easting (US ft) : 1464809.90
0-Hr DTW : 13.24' TOC
72-Hr DTW : 13.94' TOC
No LNAPL or DNAPL at 0 or 48 hours



Boring terminated at 30' bgs due to water and piezometer installation.

TOC: Top of PVC casing DTW: Depth to water bgs: Below ground surface AMSL: Above mean sea level Riser Stickup: 2.81' Riser: 0 - 15' bgs

Screen: 15 - 30' bgs [Slot Size: 0.010"]
Sand Pack: 13 - 30' bgs [Grain Size: WG #2]
Bentonite Seal: 0 - 13' bgs [Grain Size: 3/8" chips]



Boring ID: A10-006K-SB/PZ

(page 1 of 1)

Client : EnviroAnalytics Group

ARM Project No. : 150298M-5-3

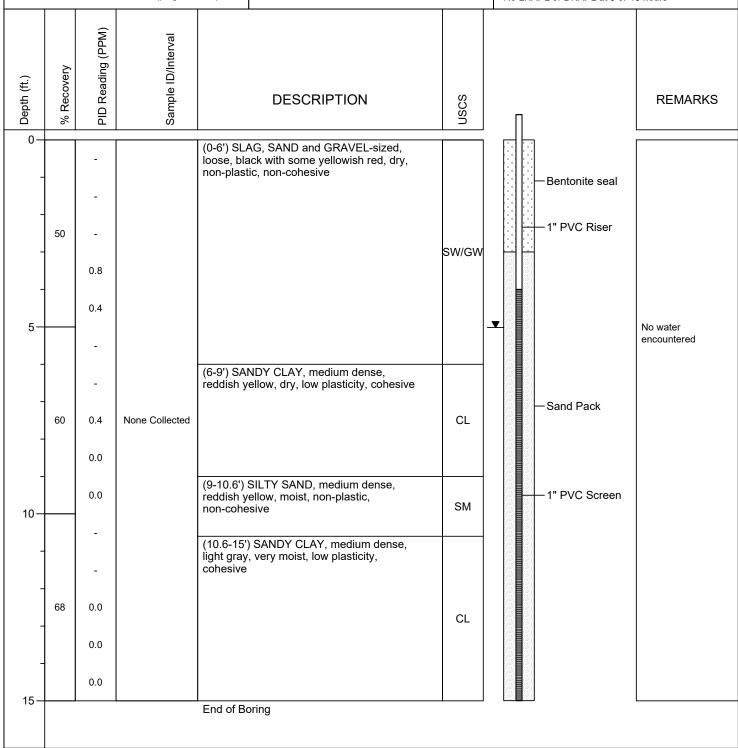
Project Description : Sparrows Point - Parcel A10 Site Location : Sparrows Point, MD

ARM Representative : L. Glumac Checked by : M. Replogle, EIT Drilling Company : Allied Well Drilling

Driller : Tim Moyer
Drilling Equipment : Geoprobe 77DT

Soil Boring Installation Date : 02/11/2019
Piezometer Installation Date : 02/11/2019
Casing/Riser/Screen Type : PVC
Borehole Diameter : 2.25"
Riser/Screen Diameter : 1"

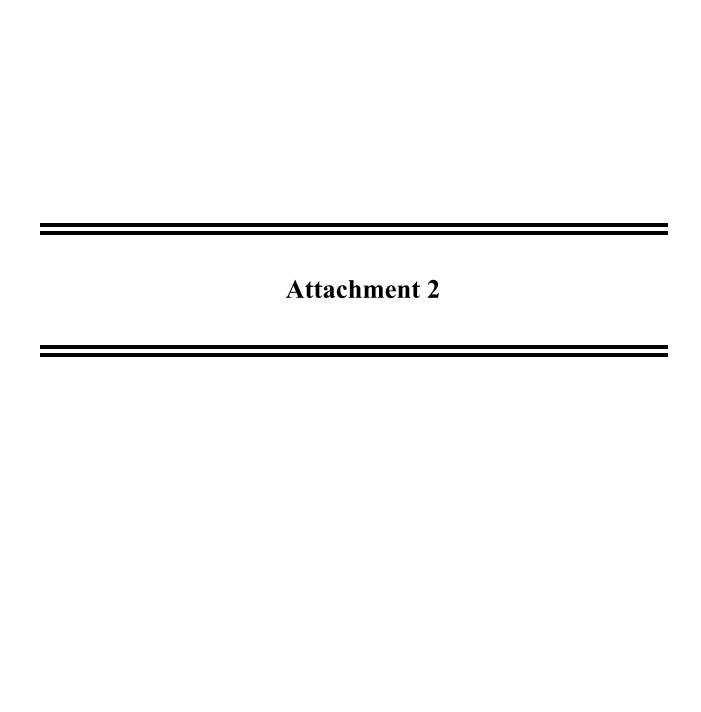
Northing (US ft) : 571178.57
Easting (US ft) : 1464809.90
0-Hr DTW : 7.85' TOC
72-Hr DTW : 7.53' TOC
No LNAPL or DNAPL at 0 or 48 hours



Boring terminated at 15' bgs due to maximum depth and piezometer installation.

TOC: Top of PVC casing DTW: Depth to water bgs: Below ground surface AMSL: Above mean sea level Riser Stickup: 2.51' Riser: 0 - 3' bgs

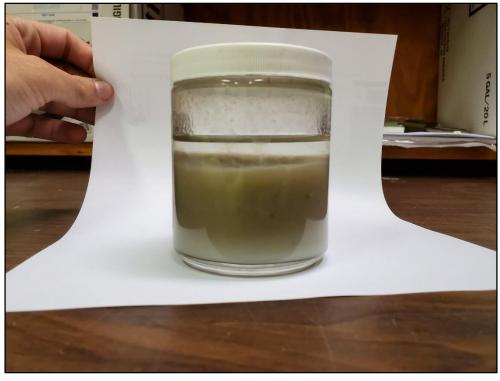
Screen: 3 - 15' bgs [Slot Size: 0.010"]
Sand Pack: 2- 15' bgs [Grain Size: WG #2]
Bentonite Seal: 0 - 2' bgs [Grain Size: 3/8" chips]



Parcel A10 – Photographs of Unknown Product Former Sparrows Point Steel Mill Sparrows Point, Maryland



Photograph 1: Unknown product extracted from temporary piezometer A10-006K-PZ. Product is pale gray and moderately thick. Photograph was taken in the field immediately after removal using a bailer.



Photograph 2: Unknown product extracted from temporary piezometer A10-006K-PZ. Product has settled to bottom of sample jar (appears to be a DNAPL). Photograph was taken several weeks after removal via bailer.