INTERIM RESPONSE AND DEVELOPMENT COMPLETION REPORT

AREA B: SUB-PARCEL B6-2 TRADEPOINT ATLANTIC SPARROWS POINT, MARYLAND

Prepared For:



TRADEPOINT ATLANTIC 1600 Sparrows Point Boulevard Sparrows Point, Maryland 21219

Prepared By:



ARM GROUP LLC 9175 Guilford Road Suite 310 Columbia, Maryland 20146

ARM Project No. 20010206

Respectfully Submitted, ARM Group LLC

Melisser R. Hritz

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T. Neil Peters, P.E. Senior Vice President

Revision 0 – September 22, 2021

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1.0 INTRODUCTION

ARM Group LLC (ARM), on behalf of Tradepoint Atlantic, has prepared this Interim Response and Development Completion Report for the portion of the Tradepoint Atlantic property that has been designated as Area B: Sub-Parcel B6-2 (the Site). This report documents the work completed under the Sub-Parcel B6-2 Response and Development Work Plan (RADWP), Revision 1, dated January 24, 2018. Additional work completed within the sub-parcel (including the development of Retail Area #1 through #3, and the Marketing Center) will be addressed in additional closure documents to be submitted under separate cover.

The Sub-Parcel B6-2 development area boundary was adjusted from the boundary originally presented in the Sub-Parcel B6-2 RADWP. The updated boundary was presented in the Sub-Parcel B6-2 RADWP Addendum: SLRA Update dated June 28, 2021. The updated boundary consists of approximately 38 acres, the majority of which is within the northern portion of Parcel B6 with approximately 0.14 acres in the adjacent Parcel A6.

All documents related to the investigation and development of the sub-parcel are listed in the Reference List in **Appendix A**.

Phase II Investigations specific to soil and groundwater conditions were performed for the areas surrounding Sub-Parcel B6-2 in accordance with the following agency-approved Phase II Investigation Work Plans:

- Area B: Parcel B6 (Revision 2) dated May 12, 2016.
- Area A: Parcel A6 (Revision 0) dated October 11, 2018.
- Finishing Mills Groundwater Investigation (Revision 1) dated July 7, 2016.

The full analytical results and conclusions of each investigation have been presented to the agencies in the following Phase II Investigation Reports:

- Area B: Parcel B6 (Revision 2) dated March 16, 2018.
- Area A: Parcel A6 (Revision 0) dated June 23, 2020.
- Finishing Mills Groundwater Investigation (Revision 0) dated November 30, 2016.

The Sub-Parcel B6-2 Response and Development Work Plan (RADWP) (Revision 1) dated January 24, 2018 was approved for implementation by the Maryland Department of the Environment (MDE) on February 9, 2018. Subsequent addendums were submitted to propose further development for specific portions of the sub-parcel (Retail Areas #1 through #3). These developments will be discussed in completion reports to be submitted under separate cover.



The development of Sub-Parcel B6-2 generally included well abandonment, slag placement, mass grading, and minor utility installations.

1.1. REPORT PURPOSE

The purpose of this Interim Response and Development Completion Report is to document response actions and development activities completed under the Sub-Parcel B6-2 RADWP. In addition, this report is being submitted in accordance with the requirements outlined in the following agreements:

- Administrative Consent Order (ACO) between Tradepoint Atlantic (formerly Sparrows Point Terminal, LLC) and the Maryland Department of the Environment (MDE), effective September 12, 2014; and
- Settlement Agreement and Covenant Not to Sue (SA) between Tradepoint Atlantic (formerly Sparrows Point Terminal, LLC) and the United States Environmental Protection Agency (USEPA), effective November 25, 2014.

The following section (Section 1.2) provides the project background and Section 1.3 provides an overview of the Site development and response action activities. The response actions performed are described in Section 2.0, site development activities are summarized in Section 3.0, and conclusions are provided in Section 4.0.

1.2. PROJECT BACKGROUND

1.2.1. Site Description and History

From the late 1800s until 2012, the production and manufacturing of steel was conducted at Sparrows Point. Iron and steel production operations and processes at Sparrows Point included raw material handling, coke production, sinter production, iron production, steel production, and semi-finished and finished product preparation. In 1970, Sparrows Point was the largest steel facility in the United States, producing hot and cold rolled sheets, coated materials, pipes, plates, and rod and wire. The steel making operations at the Facility ceased in fall 2012.

Parcel B6 comprises approximately 148.5 acres of the approximately 3,100-acre former steel mill (**Figure 1**) that operated for over one hundred years. In 2012, steelmaking operations at the facility ceased. From 2013 to the present day, a demolition contractor has been demolishing the majority of the above-grade structures on the site-wide property.

The Sub-Parcel B6-2 development area consists of approximately 38 acres, the majority of which is within the northern portion of Parcel B6 with approximately 0.14 acres in the adjacent Parcel A6. The Site is zoned Manufacturing Heavy-Industrial Major (MH-IM), and was not occupied prior to the start of development activities. Prior to the start of development activities, all former buildings were demolished.



1.2.2. Historical Environmental Activities

Prior to demolition, the Sub-Parcel B6-2 Development Area was formerly occupied by the Hot Strip Mill Area (located to the south of the Site) which performed heating and rolling hot bands of metal, and cooling and coiling of the finished products. Several railways which supported the Hot Strip Mill and larger Finishing Mills Area passed through the Site. A small petroleum recovery facility was previously located near the western end of the Site and contained a small rectangular surface impoundment which was diked to separate it from the Humphrey Creek. Minor structures formerly located at the Site included service buildings, access gates, and parking lots. More information regarding previous steel finishing activities can be found in the Phase II Investigation Report – Area B: Parcel B6 (Revision 2 dated March 16, 2018).

A Phase I ESA was completed by Weaver Boos Consultants for the entire Sparrows Point property on May 19, 2014. The Phase I ESA identified particular features across the Tradepoint Atlantic property which presented potential risks to the environment. The results of the Phase I ESA are described in more detail in the Sub-Parcel B6-2 RADWP (Revision 1 dated May 20, 2018).

The Phase I ESA identified the following RECs within the Sub-Parcel B6-2 boundaries:

- Apparent Historical Surface Impoundment ("G" Gate) (REC 22, Finding 273)
- TMC Oil Recovery Plant and Impoundment (REC 26, Finding 278)

Relevant SWMUs and AOCs were also identified as located in Figure 3-1 from the DCC Report. There were no SWMUs or AOCs identified within the Sub-Parcel B6-2 boundary.

1.2.3. Phase II Investigation

Phase II Investigations specific to soil and groundwater conditions were performed for the areas surrounding Sub-Parcel B6-2 in accordance with the requirements outlined in the ACO as further described in the following agency-approved Phase II Investigation Work Plans:

- Area B: Parcel B6 (Revision 2) dated May 12, 2016.
- Area A: Parcel A6 (Revision 0) dated October 11, 2018.
- Finishing Mills Groundwater Investigation (Revision 1) dated July 7, 2016.

All soil and groundwater samples were collected and analyzed in accordance with agencyapproved protocols during these Phase II Investigations, the specific details of which can be reviewed in each agency-approved Work Plan. Each Phase II Investigation was developed to target specific features which represented a potential release of hazardous substances and/or petroleum products to the environment, including RECs, SWMUs, and AOCs as well as numerous other targets defined from former operations that would have the potential for environmental contamination. Samples were also collected at site-wide locations to ensure full coverage of each



investigation area. The full analytical results and conclusions of each investigation have been presented to the agencies in the following Phase II Investigation Reports:

- Area B: Parcel B6 (Revision 2) dated March 16, 2018.
- Area A: Parcel A6 (Revision 0) dated June 23, 2020.
- Finishing Mills Groundwater Investigation (Revision 0) dated November 30, 2016.

1.3. SITE DEVELOPMENT AND RESPONSE ACTIONS

The Site has been developed for retail use. This Completion Report addresses site grading and minor utility installations. Further development (including Retail Areas #1 through #3) will be addressed in separate closure documents to be submitted under separate cover. Subsequent site use would involve indoor workers in the retail facilities, and truck drivers entering and leaving the Site with goods.

The response and development actions approved for protection of human health and the environment at the Site included proper abandonment of piezometers and environmental capping. This completion report does not address the completion of a capping remedy on the sub-parcel.



Tradepoint Atlantic Sparrows Point

2.0 RESPONSE ACTIVITIES

2.1. Well Abandonment

Permanent groundwater monitoring wells SW-077-MWI, SW-077-MWS, SW-078-MWI, SW-078-MWS, TM12-PZM006, TM14-PZM005, TM16-PZM007, which were located inside the Sub-Parcel B6-2 development boundary and sampled during the Finishing Mills Groundwater Investigation, were properly abandoned in accordance with COMAR 26.04.04.34 through 36 on February 22, 2018; March 8, 2018; September 04, 2018, prior to the start of development activities. One temporary groundwater sampling points (piezometers), FM-010-PZS, was installed in Sub-Parcel B6-2 during the Parcel B6 Phase II Investigation or during subsequent delineation activities. This piezometer was properly abandoned in accordance with COMAR 26.04.04.34 through 36 on January 10, 2017 and November 29, 2017.

A total of 70 delineation piezometers were installed within and immediately adjacent to the western boundary of Sub-Parcel B6-2 in the vicinity of location B6-066-SB. Approval to abandon the network was requested in the NAPL Delineation Completion Report Comment Response Letter and Piezometer Abandonment Request Letter dated March 26, 2021. The network was approved for abandonment by the MDE via email on April 15, 2021.

There are no remaining wells (or piezometers) on the sub-parcel. Abandoned groundwater points are shown on **Figure 2**. Abandonment records are provided in **Appendix B**.



3.0 SITE DEVELOPMENT ACTIVITIES

This section presents a summary of the completed development work as well as materials management and other protocols that were followed during the development work performed under the Sub-Parcel B6-2 RADWP to adequately mitigate potential risks for future uses of the property. The general scope of the Sub-Parcel B6-2 RADWP was limited to grading activities and utility installations. The development area is shown in **Figure 3**.

Development activities began in April 2018 with DXI as the General Contractor. Full-time oversight was performed by an Environmental Professional (EP) provided by Hillis Carnes Engineering Associates (HCEA) during intrusive development activities to ensure compliance with environmental regulations and the development plans, including performing dust monitoring and soil screening services. The Notice of Completion of Remedial Actions letter provided by HCEA (**Appendix C**) states that the project was completed in general accordance with the Sub-Parcel B6-2 RADWP. Select Daily Field Reports prepared by the EP are included in **Appendix D**. One notable occurrence occurred during development on January 9, 2019 and is discussed in further detail in Section 3.10. The Daily Field Reports for all work conducted in January 2019 are included in **Appendix D**. A compiled set of all Daily Field Reports for the development work performed under the Sub-Parcel B6-2 RADWP is included as an electronic attachment.

Site development activities are discussed in the Quarterly Development Status Updates for the second, third, and fourth quarters of 2018 (**Appendix E**). A Quarterly Development Status Update was not prepared for an additional six days of utility installation work completed in January 2019; however, the corresponding Daily Field Reports have been included in **Appendix D**. The following sections provide information not covered in the Quarterly Development Status Updates.

3.1. PRE-CONSTRUCTION MEETING

Prior to any earthwork being conducted on-site, a pre-construction meeting was held to address proper operating procedures for working on-site and handling potentially contaminated material. Records are provided in **Appendix F**.

3.2. GRADING AND SITE PREPARATION

Mass grading was performed across the entire site under the Sub-Parcel B6-2 RADWP. Processed slag fill from elsewhere on the Tradepoint Atlantic property was placed across the entire site in preparation for further development activities. No excess material was generated during grading activities. No materials left the 3,100 acre property.



3.3. UTILITY INSTALLATION

Excavated material that did not exhibit evidence of impacts was placed on-site under areas where capping was planned. The majority of utility excavations completed under the Sub-Parcel B6-2 RADWP were completed within the slag layer placed during grading activities. All materials encountered below the slag layer were replaced inside the trenches as backfill. Slag excavated from utility trenches was replaced inside the trenches as backfill or was used during site grading activities. Utility trenches were backfilled using excavated slag and with bedding consisting of #57 stone and CR-6 stone from Martin Marietta.

3.4. FILL MATERIALS

The following fill materials were used during the grading and utility installation of Sub-Parcel B6-2:

- #57 Stone, approved by the MDE via email on May 16, 2018;
- CR-6 Stone, approved by the MDE via email on May 16, 2018; and

Clean fill approval documentation is provided in Appendix G.

3.5. PLACEMENT OF SUB-BASE

Processed slag aggregate from elsewhere on the Tradepoint Atlantic property was used during grading activities across the entire sub-parcel.

3.6. SOIL SAMPLING AND DISPOSAL

The EP screened excavated material with a MiniRAE photoionization detector (PID). During site grading and utility activities completed under the Sub-Parcel B6-2 RADWP, no soil was segregated due to elevated PID readings, odors, or staining.

3.7. DUST CONTROL

General construction operations, including removal of existing foundations or utilities, soil excavation and transport, soil grading, trenching for utilities, and cap construction activities were performed at the Site. To limit worker exposure to contaminants borne on dust and windblown particulates, dust control measures were to be implemented, if warranted when the above activities were performed. The action level used for the purpose of determining the need for additional dust suppression techniques (e.g. watering and/or misting) during the response and development activities on Site was 3.0 mg/m³.

Dust monitoring was performed with three MetOne E-sampler dust monitors. The dust monitors were placed daily upwind of, downwind of, and inside the active work zone. Dust readings were recorded at each monitor at a rate of once per minute. Daily summaries of 15-minute average dust



readings are provided as an electronic attachment. Dust control measures were to be implemented if a sustained level above 3.0 mg/m³ was observed. Two exceedances of the 3.0 mg/m³ action level were observed during construction activities. However, the exceedances appeared to be associated with trucks passing near the monitor and were not sustained for more than one minute. During the six days of work completed in January 2019, electronic dust monitoring was not conducted due to the limited scope of work planned. Visual dust monitoring was conducted, and no visible dust was observed. The Contractor utilized a water truck to mitigate dust generation during the development work operations.

3.8. WATER MANAGEMENT

All dewatering discharges associated with the development of Sub-Parcel B6-2 were transmitted to the Tin Mill Canal, which leads to the on-site wastewater treatment plant. During the second and third quarters of 2018, dewatering was discharged downstream of the active remediation area of the Tin Mill Canal. In the fourth quarter of 2018, dewatering discharges were transmitted through filter bags to the Tin Mill Canal. No sheens or odors were detected in any dewatering discharges. Groundwater was not encountered during the six days of work completed in January 2019.

3.9. HEALTH AND SAFETY

The contractor was responsible for following safety procedures, including schedule limitations, to control contact with potentially contaminated soil or groundwater. The RADWP specified that level D protection would be adequate to mitigate risk to Construction Workers.

3.10. NOTABLE OCCURRENCES

On January 9, 2019, a water line was damaged during excavation activities. The water line was capped, and no observations of sheen or odors were noted. The Daily Field Reports for the work conducted in January 2019 are included in **Appendix D**.

3.11. PAVING

No paving was completed under the scope of work described in this Interim Completion Report for the Sub-Parcel B6-2 RADWP. Capping activities operations will be discussed in the Development Completion Report(s) for the work performed for individual portions of the subparcel (e.g. Retail Area #1) to be submitted under separate cover.

3.12. LANDSCAPED AREAS

No landscaping was completed under the scope of work described in this Interim Completion Report for the Sub-Parcel B6-2 RADWP. Landscape capping will be discussed in the



Development Completion Reports(s) for the development work performed for individual portions of the sub-parcel (e.g. Retail Area #1) to be submitted under separate cover.

3.13. INSTITUTIONAL CONTROLS (FUTURE LAND USE CONTROLS)

Long-term conditions related to future use of the Site will be described within the No Further Action Letter (NFA) and COC. These conditions will be discussed in the Development Completion Reports(s) for the development work performed for individual portions of the sub-parcel (e.g. Retail Area #1) to be submitted under separate cover.



4.0 CONCLUSION

Between April 2018 and April 2020, response and development actions were conducted as part of the redevelopment of the Site identified as Sub-Parcel B6-2. The development activities conducted to date on Sub-Parcel B6-2 generally included well abandonment, slag placement, mass grading, and minor utility installations. Additional grading may be conducted in the individual areas of Sub-Parcel B6-2 as described in the RADWP Addendums for Retail Areas #1 through #3 to finalize grade during development activities. These activities will be discussed in the Development Completion Report(s) for the work performed for individual portions of the sub-parcel (e.g. Retail Area #1) to be submitted under separate cover.

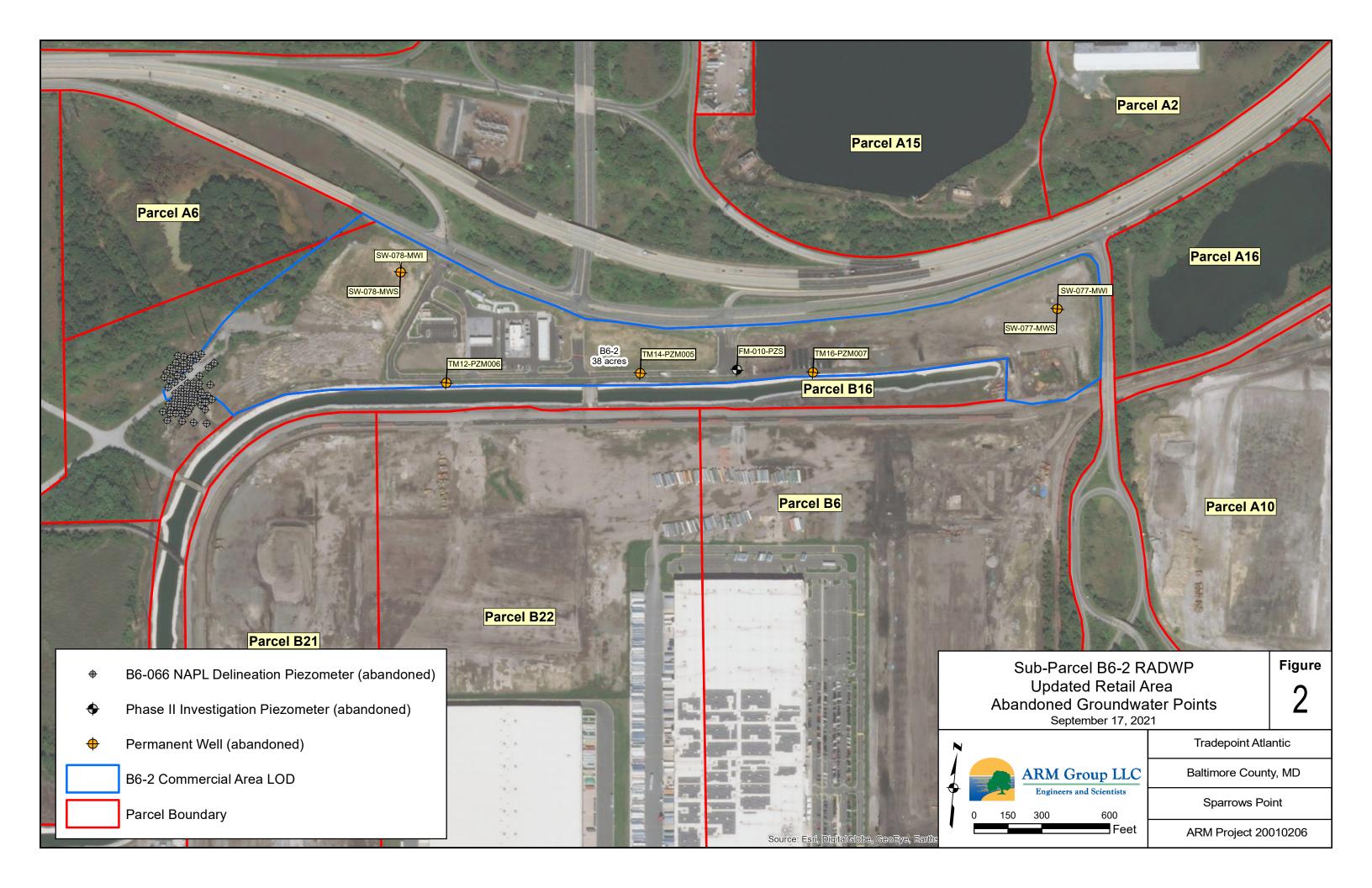
The remedial actions specified in the RADWP included: abandonment of temporary groundwater collection points and wells, capping of building and parking areas with paving (to be addressed in separate closure documents); capping of landscaped areas and utility corridors within the cap with clean fill (to be addressed in separate closure documents); and implementation of institutional controls (to be addressed in separate closure documents).

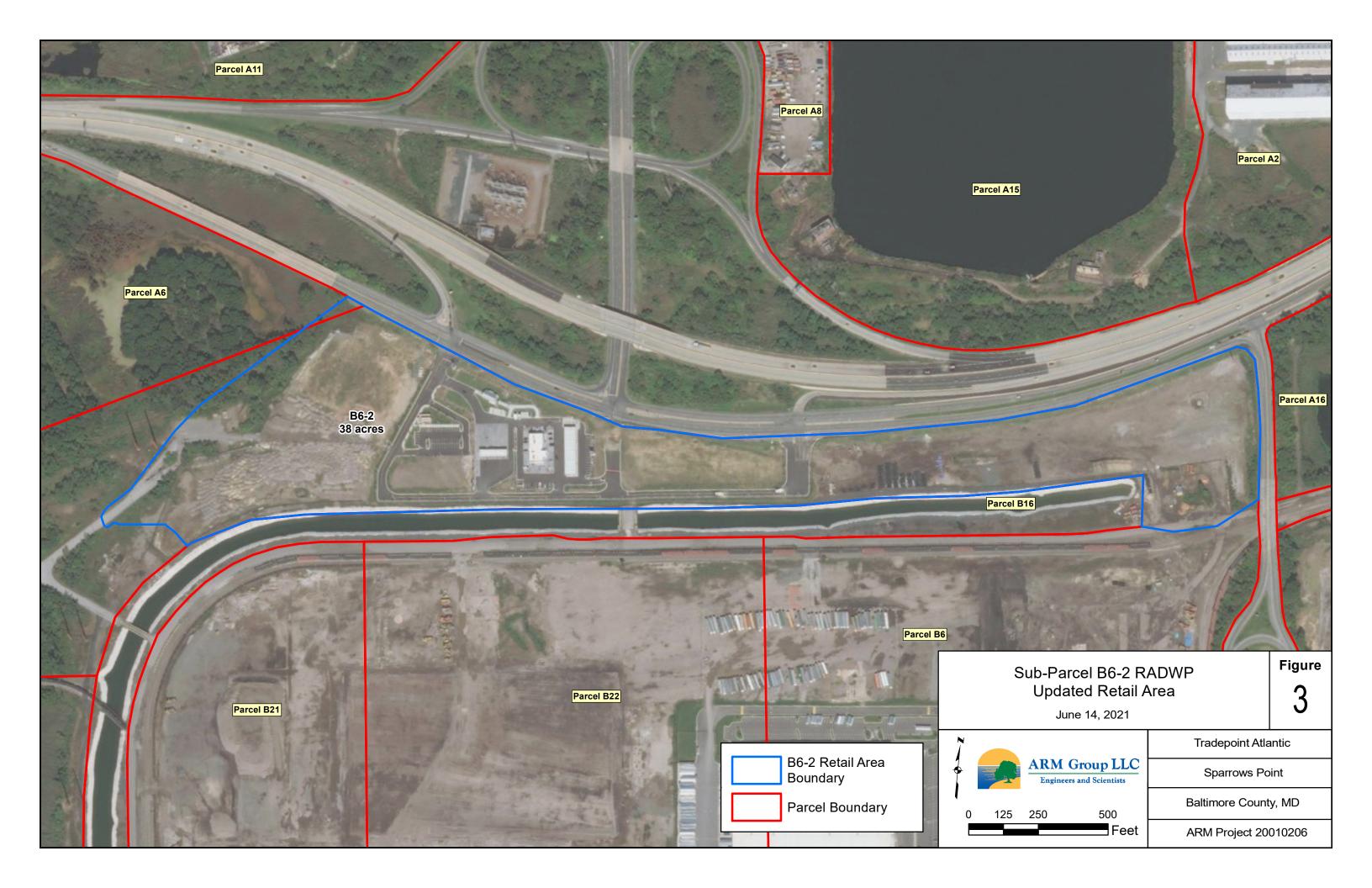
A Notice of Completion of Remedial Actions, prepared by the EP, a Professional Engineer registered in Maryland, is enclosed in **Appendix C** to certify that the development actions have been completed in accordance with the requirements described in the RADWP.



FIGURES







APPENDIX A

Reference List

Sub-Parcel B6-2

- Weaver Boos Consultants (2014). Phase I Environmental Site Assessment: Former RG Steel Facility. Final Draft. May 19, 2014.
- ARM Group, Inc. (2016). *Phase II Investigation Work Plan, Area B: Parcel B6*. Revision 2. May 12, 2016.
- ARM Group, Inc. (2016). *Phase II Investigation Work Plan, Finishing Mills Groundwater*. Revision 1. July 7, 2016.
- ARM Group, Inc. (2016). *Phase II Investigation Report, Finishing Mills Groundwater*. Revision 0. November 30, 2016.
- ARM Group, Inc. (2017). Utility Excavation NAPL Contingency Plan. Revision 4. June 19, 2017.
- ARM Group, Inc. (2018). *Response and Development Work Plan Area B: Sub-Parcel B6-2*. Revision 1. February 9, 2018.
- ARM Group, Inc. (2018). *Phase II Investigation Report Area B: Parcel B6*. Revision 2. March 6, 2018.
- ARM Group, Inc. (2019). Response And Development Work Plan Addendum: Retail Area #1, Area B: Sub-Parcel B6-2. Revision 2. May 22, 2018.
- ARM Group, Inc. (2018). Quarterly Development Status Update: Second Quarter 2018, Area B: Sub-Parcel B6-1. August 21, 2018.
- ARM Group, Inc. (2018). *Phase II Investigation Work Plan, Area A: Parcel A6.* Revision 0. October 11, 2018.
- ARM Group, Inc. (2018). *Quarterly Development Status Update: Third Quarter 2018, Area B: Sub-Parcel B6-1.* October 31, 2018.
- ARM Group, Inc. (2019). *Quarterly Development Status Update: Fourth Quarter 2018, Area B:* Sub-Parcel B6-1. January 30, 2019.
- ARM Group, Inc. (2019). Request for Modifications to Response And Development Work Plan Addendum (Revision 2): Royal Farms Station – Retail Area #1, Area B: Sub-Parcel B6-2. Revision 2. May 22, 2018.
- ARM Group LLC (2020). *Phase II Investigation Report Area A: Parcel A6.* Revision 0. June 23, 2020.

Reference List

Sub-Parcel B6-2

- ARM Group LLC (2021). *RADWP Addendum: SLRA Update Area B: Sub-Parcel B6-2.* June 28, 2021.
- ARM Group LLC (2021). Response And Development Work Plan Addendum: Retail Area #2 Flex Building, Area B: Sub-Parcel B6-2. July 8, 2021.
- ARM Group LLC (2021). Response And Development Work Plan Addendum: Retail Area #3 Project Pancake, Area B: Sub-Parcel B6-2. July 27, 2021.

APPENDIX B

Well/Piezometer Abandonment Form		
Well/Piezometer ID: SW-077-M	WI	
General Project Information:		
Client: TPA		
Site Location: Sparrows Point, MD		
Parcel ID: B6		
Abandonment Date: 3/8/2018		
Abandonment Contractor: Allied		
Abandonment Method (check appropriate):		
1. PVC \rightarrow Pulled \bigcirc / Split \bigcirc / Perforate	ed 🔘 / Left-In-Place 💽	
2. Abandoned \rightarrow Grout \bigcirc / Bentonite Chip	os 🔘	
Field Equipment: Heron O/W probe, gr	out, geoprobe trash pump	
ARM Representative(s): L. Perrin		
Well Diameter (inches): 2.00	_	
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:	
Reported (historical/log):	Depth to Water (TOC): 11.10	
Measured: 53.74	Depth to NAPL (TOC): No DNAPL/LNAPL	
Please note if this abandonment is for a known NAPL delineation/monitoring area or individual NAPL screening piezometer and identify the name of the delineation area (e.g., B6-066 NAPL Area or B5-144 Screening Piezometer):		
<u>Please Note:</u> If NAPL is identified in a piezometer, the Project Manager should be notified and the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.		
Additional Comments (if any): Split then left in place per Allied.		
ARM Group LLC		
Engineers and Scientists9175 Guilford Road - Suite 310Columbia, Maryland 21046(410) 290-7775FAX: (410) 290-7775		

Well/Piezometer Abandonment Form			
Well/Piezometer ID: SW-077-M	WS		
General Project Information:			
Client: TPA			
Site Location: Sparrows Point, MD			
Parcel ID: B6			
Abandonment Date: 2/22/2018			
Abandonment Contractor: Allied			
Abandonment Method (check appropriate):			
1. PVC \rightarrow Pulled \bigcirc / Split \bigcirc / Perforate	d 🔘 / Left-In-Place 🔘		
2. Abandoned \rightarrow Grout \bigcirc / Bentonite Chip			
Field Equipment: Heron O/W probe, gr	out and grout machine		
ARM Representative(s): L. Perrin			
Well Diameter (inches): 2.00			
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:		
Reported (historical/log):	Depth to Water (TOC): 11.00		
Measured: 17.64	Depth to NAPL (TOC): No DNAPL/LNAPL		
Please note if this abandonment is for a known NAPL delineation/monitoring area or individual NAPL screening piezometer and identify the name of the delineation area (e.g., B6-066 NAPL Area or B5-144 Screening Piezometer):			
<u>Please Note:</u> If NAPL is identified in a piezometer, the Project Manager should be notified and the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.			
Additional Comments (if any):			
ARM Group LLC			
	Engineers and Scientists 9175 Guilford Road - Suite 310		
Columbia, Maryland 21046			
(410) 290-7775 FAX: (410) 290-7775			

Well/Piezometer Abandonment Form			
Well/Piezometer ID: SW-078-M	WI		
General Project Information:	General Project Information:		
Client: TPA			
Site Location: Sparrows Point, MD			
Parcel ID: B6			
Abandonment Date: 3/8/2018			
Abandonment Contractor: Allied			
Abandonment Method (check appropriate):			
1. PVC \rightarrow Pulled \bigcirc / Split \bigcirc / Perforate	ed 🔘 / Left-In-Place 💽		
2. Abandoned \rightarrow Grout \bigcirc / Bentonite Chip	os 🔘		
Field Equipment: Heron O/W probe, tra	ash pump, Geoprobe		
ARM Representative(s): L. Perrin			
Well Diameter (inches): 2.00	_		
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:		
Reported (historical/log):	Depth to Water (TOC): 15.64		
Measured: 56.36	Depth to NAPL (TOC): No DNAPL/LNAPL		
Please note if this abandonment is for a known NAPL delineation/monitoring area or individual NAPL screening piezometer and identify the name of the delineation area (e.g., B6-066 NAPL Area or B5-144 Screening Piezometer):			
<u>Please Note:</u> If NAPL is identified in a piezometer, the Project Manager should be notified and the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.			
Additional Comments (if any): Split and left in place			
ARM Group LLCEngineers and Scientists9175 Guilford Road - Suite 310Columbia, Maryland 21046(410) 290-7775 FAX: (410) 290-7775			

Well/Piezometer Abandonment Form		
Well/Piezometer ID: SW-078-M	WS	
General Project Information:		
Client: TPA		
Site Location: Sparrows Point, MD		
Parcel ID: B6		
Abandonment Date: 3/8/2018		
Abandonment Contractor: Allied		
Abandonment Method (check appropriate):		
1. PVC \rightarrow Pulled \bigcirc / Split \bigcirc / Perforate	ed 🔘 / Left-In-Place 🔘	
2. Abandoned \rightarrow Grout \bigcirc / Bentonite Chip	os 🔘	
Field Equipment: Heron O/W probe, gi	out and grout machine	
ARM Representative(s): L. Perrin		
Well Diameter (inches): 2.00	_	
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:	
Reported (historical/log):	Depth to Water (TOC): 7.33	
Measured: 17.36	Depth to NAPL (TOC): No DNAPL/LNAPL	
Please note if this abandonment is for a known NAPL delineation/monitoring area or individual NAPL screening piezometer and identify the name of the delineation area (e.g., B6-066 NAPL Area or B5-144 Screening Piezometer):		
<u>Please Note:</u> If NAPL is identified in a piezometer, the Project Manager should be notified and the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.		
Additional Comments (if any):		
ARM Group LLC		
Engineers at		
9175 Guilford Road - Suite 310		
Columbia, Maryland 21046 (410) 290-7775 FAX: (410) 290-7775		

Well/Piezometer Abandonment Form		
Well/Piezometer ID: TM12-PZM	1006	
General Project Information:		
Client: TPA		
Site Location: Sparrows Point, MD		
Parcel ID: B6		
Abandonment Date: 3/8/2018		
Abandonment Contractor: Allied		
Abandonment Method (check appropriate):		
1. PVC \rightarrow Pulled \bigcirc / Split \bigcirc / Perforate	ed 🔘 / Left-In-Place 💽	
2. Abandoned \rightarrow Grout \bigcirc / Bentonite Chip	os 🔘	
Field Equipment: Heron O/W probe, gr	out machine, geoprobe	
ARM Representative(s): L. Perrin		
Well Diameter (inches): 2.00	_	
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:	
Reported (historical/log): 19.00	Depth to Water (TOC): 11.75	
Measured: 18.65	Depth to NAPL (TOC): No DNAPL/LNAPL	
Please note if this abandonment is for a known NAPL delineation/monitoring area or individual NAPL screening piezometer and identify the name of the delineation area (e.g., B6-066 NAPL Area or B5-144 Screening Piezometer):		
Please Note: If NAPL is identified in a piezometer, the Project Manager should be notified and the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.		
Additional Comments (if any): Split and left in place per Allied.		
ARM Group LLCEngineers and Scientists9175 Guilford Road - Suite 310Columbia, Maryland 21046(410) 290-7775 FAX: (410) 290-7775		

Well/Piezometer Abandonment Form		
Well/Piezometer ID: TM14-PZM	1005	
General Project Information:		
Client: TPA		
Site Location: Sparrows Point, MD		
Parcel ID: B6		
Abandonment Date: 3/8/2018		
Abandonment Contractor: Allied		
Abandonment Method (check appropriate):		
1. PVC \rightarrow Pulled \bigcirc / Split \bigcirc / Perforate	ed 🔘 / Left-In-Place 💽	
2. Abandoned \rightarrow Grout \bigcirc / Bentonite Chip	os 🔿	
Field Equipment: Heron O/W probe, gr	out and trash pump, geoprobe	
ARM Representative(s): L. Perrin		
Well Diameter (inches): 2.00	_	
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:	
Reported (historical/log): 16.00	Depth to Water (TOC): 8.44	
Measured: 15.58	Depth to NAPL (TOC): No DNAPL/LNAPL	
Please note if this abandonment is for a known NAPL delineation/monitoring area or individual NAPL screening piezometer and identify the name of the delineation area (e.g., B6-066 NAPL Area or B5-144 Screening Piezometer):		
<u>Please Note:</u> If NAPL is identified in a piezometer, the Project Manager should be notified and the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.		
Additional Comments (if any):		
ARM Group LLC		
Engineers and Scientists		
9175 Guilford Road - Suite 310 Columbia, Maryland 21046		
(410) 290-7775 FAX: (410) 290-7775		

Well/Piezometer Abandonment Form		
Well/Piezometer ID: TM16-PZM	1007	
General Project Information:		
Client: TPA		
Site Location: Sparrows Point, MD		
Parcel ID: B6		
Abandonment Date: 2/22/2018		
Abandonment Contractor: Allied		
Abandonment Method (check appropriate):		
1. PVC \rightarrow Pulled \bigcirc / Split \bigcirc / Perforate	ed 🔘 / Left-In-Place 🔘	
2. Abandoned \rightarrow Grout \bigcirc / Bentonite Chip	os 🔿	
Field Equipment: Heron O/W probe, gr	out and grout machine	
ARM Representative(s): L. Perrin		
Well Diameter (inches): 2.00	_	
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:	
Reported (historical/log): 17.00	Depth to Water (TOC): 11.00	
Measured: 17.19	Depth to NAPL (TOC): No DNAPL/LNAPL	
Please note if this abandonment is for a known NAPL delineation/monitoring area or individual NAPL screening piezometer and identify the name of the delineation area (e.g., B6-066 NAPL Area or B5-144 Screening Piezometer):		
<u>Please Note:</u> If NAPL is identified in a piezometer, the Project Manager should be notified and the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.		
Additional Comments (if any):		
ARM Group LLC		
Engineers and Scientists		
9175 Guilford Road - Suite 310 Columbia, Maryland 21046		
(410) 290-7775 FAX: (410) 290-7775		

Well/Piezometer Abandonment Form			
Well/Piezometer ID: FM-010-PZ	źŚ		
General Project Information:			
Client: TPA			
Site Location: Sparrows Point, MD			
Parcel ID: B6/FM			
Abandonment Date: 1/10/2017			
Abandonment Contractor: GSI			
Abandonment Method (check appropriate):			
1. PVC \rightarrow Pulled \bigcirc / Split \bigcirc / Perforate	ed 🔘 / Left-In-Place 🔘		
2. Abandoned \rightarrow Grout \bigcirc / Bentonite Chip	os 🔿		
Field Equipment: Heron O/W probe, gr	out, geoprobe		
ARM Representative(s): L. Perrin			
Well Diameter (inches): 1.00	_		
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:		
Reported (historical/log):	Depth to Water (TOC):		
Measured:	Depth to NAPL (TOC): No DNAPL/LNAPL		
Please note if this abandonment is for a known NAPL delineation/monitoring area or individual NAPL screening piezometer and identify the name of the delineation area (e.g., B6-066 NAPL Area or B5-144 Screening Piezometer):			
<u>Please Note:</u> If NAPL is identified in a piezometer, the Project Manager should be notified and the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.			
Additional Comments (if any): Removed 10' of screen and 8' of riser; placed chips at surface			
ARM Group LLC			
	Engineers and Scientists 9175 Guilford Road - Suite 310		
Columbia, Ma			
(410) 290-7775 FAX: (410) 290-7775			

Well/Piezometer Abandonment Form		
Well/Piezometer ID: B6-066AAA-PZ_		
General Project Information:		
Client: EAG		
Site Location: Sparrows Point, MD		
Parcel ID: 36		
Abandonment Date: 513121		
Abandonment Contractor: 65=		
Abandonment Method (check appropriate):	Mr.	
1. PVC \rightarrow Pulled \bigcirc + Split \bigcirc / Perforate	d 🕖 Left-In-Place 🔿	
2. Abandoned \rightarrow Grout \bigcirc / Bentonite Chip		
Field Equipment: Geoproloe 78-22	DT, Growt pump	
ARM Representative(s): L-Perrin Well Diameter (inches):		
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:	
	Depth to Water (TOC): 8.74	
Depth to Bottom (TOC)	Devils to Wester (TOC):	
Depth to Bottom (TOC) Reported (historical/log):	Depth to Water (TOC): Depth to NAPL (TOC): NOD (LNAPL VAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL	
Depth to Bottom (TOC)Reported (historical/log):Measured:Ub-72Please note if this abandonment is for a known NNAPL screening piezometer and identify the narArea or B5-144 Screening Piezometer):B6	Depth to Water (TOC): 8.74 Depth to NAPL (TOC): $N \circ D (L M AP L)$ NAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL -O(OU) meter, the Project Manager should be notified and presence of NAPL is already known and a	
Depth to Bottom (TOC) Reported (historical/log): Measured: 16-72 Please note if this abandonment is for a known N NAPL screening piezometer and identify the nar Area or B5-144 Screening Piezometer): 96 Please Note: If NAPL is identified in a piezo the piezometer may not be abandoned unless the	Depth to Water (TOC): 8.74 Depth to NAPL (TOC): $N \circ D (L M AP L)$ NAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL -O(OU) meter, the Project Manager should be notified and presence of NAPL is already known and a	
Depth to Bottom (TOC) Reported (historical/log): Measured: 16.72 Please note if this abandonment is for a known N NAPL screening piezometer and identify the nar Area or B5-144 Screening Piezometer): B6 Please Note: If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m	Depth to Water (TOC): 8.74 Depth to NAPL (TOC): $N \circ D (L N AP L)$ NAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL -O(OU) meter, the Project Manager should be notified and presence of NAPL is already known and a	
Depth to Bottom (TOC) Reported (historical/log): Measured: 16.72 Please note if this abandonment is for a known N NAPL screening piezometer and identify the nar Area or B5-144 Screening Piezometer): B6 Please Note: If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m	Depth to Water (TOC): 8.74 Depth to NAPL (TOC): $N \circ D (L N AP L)$ NAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL -O(OU) meter, the Project Manager should be notified and presence of NAPL is already known and a	
Depth to Bottom (TOC) Reported (historical/log): Measured: 16-72 Please note if this abandonment is for a known N NAPL screening piezometer and identify the nar Area or B5-144 Screening Piezometer): B6 Please Note: If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m Additional Comments (if any):	Depth to Water (TOC): 8.74 Depth to NAPL (TOC): $N \circ D (L N AP L)$ NAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL -O(OU) meter, the Project Manager should be notified and presence of NAPL is already known and a	
Depth to Bottom (TOC) Reported (historical/log): Measured: 16-72 Please note if this abandonment is for a known N NAPL screening piezometer and identify the narra Area or B5-144 Screening Piezometer): B6 Please Note: If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m Additional Comments (if any):	Depth to Water (TOC): Depth to NAPL (TOC): NOD(LNAPL) WAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL -O(O()) meter, the Project Manager should be notified and presence of NAPL is already known and a nonitoring network.	
Depth to Bottom (TOC) Reported (historical/log): Measured: 16-72 Please note if this abandonment is for a known N NAPL screening piezometer and identify the nar Area or B5-144 Screening Piezometer): B6 Please Note: If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m Additional Comments (if any): ARM Gas Engineers a 9175 Guilford	Depth to Water (TOC): $g.74$ Depth to NAPL (TOC): $N \circ D / L N A P L$ IAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL $-O \circ O U$ meter, the Project Manager should be notified and presence of NAPL is already known and a nonitoring network.	

Well/Piezometer Abandonment Form	
Well/Piezometer ID: B6-066AA-P2	
General Project Information:	
Client: EAG	
Site Location: Sparrows Point, MD	
Parcel ID: 3	
Abandonment Date: 11/29/17	
Abandonment Contractor: Allied	
Abandonment Method (circle appropriate):	
1. PVC \rightarrow Pulled / Split / Perforated / Left-In	-Place
2. Abandoned \rightarrow Grout / Bentonite Chips	
Field Equipment: Geoprobe / Grout N	nachine 5% portland
ARM Representative(s): Lipervin	
Well Diameter:	
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:
Reported (historical/log):	Depth to Water (TOC):
Measured: 7.32	Depth to NAPL (TOC): NO DWAPL UNAPL
Please note if this abandonment is for a known N	
NAPL screening piezometer and identify the name Area or B5-144 Screening Piezometer):	<u>OCCONTRACTOR OCCONTRACTOR OCCONTE OCCONTRACTOR OCCONTRACTOR OCCONTE OCCONTRACTOR OCCONTE OCCONTRACTOR OCCONTRACTOR OCCONTE OCCONTRACTOR OCCONTRACTOR OCCONTE OCCONTE OCCONTE OCCONTRACTORO</u>
<u>Please Note:</u> If NAPL is identified in a piezometer, the Project Manager should be notified and the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.	
Additional Comments (if any):	
ARM Gro	oup Inc.
Earth Resource Engineers and Consultants 9175 Guilford Road - Suite 310 Columbia, Maryland 21046 (410) 290-7775 FAX: (410) 290-7775	

Well/Piezometer Abandonment Form		
Well/Piezometer ID: 36-066	A-PZ	
General Project Information:		
Client: EAG		
Site Location: Sparrows Point, MD		
Parcel ID: BG		
Abandonment Date: 5(3(2)		
Abandonment Contractor: 6SI		
Abandonment Method (check appropriate): 1. PVC \rightarrow Pulled \bigotimes / Split \bigotimes / Perforated \bigotimes / Left-In-Place \bigotimes		
2. Abandoned \rightarrow Grout \times +Bentonite Chip		
Field Equipment: Geoprobe 782	2DT, Grout punip	
ARM Representative(s): L. Perrin		
Well Diameter (inches):	_	
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:	
Reported (historical/log):	Depth to Water (TOC):	
Measured: NA	Depth to NAPL (TOC): NA	
Please note if this abandonment is for a known NAPL delineation/monitoring area or individual NAPL screening piezometer and identify the name of the delineation area (e.g., B6-066 NAPL Area or B5-144 Screening Piezometer): $B_{b} = \Theta(\omega_{b})$		
<u>Please Note:</u> If NAPL is identified in a piezometer, the Project Manager should be notified and the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.		
Additional Comments (if any): Bent did not gouge Broken few inches above surface		
Broken few inches	above surface	
	oup LLC	
	nd Scientists	
9175 Guilford Road - Suite 310 Columbia, Maryland 21046		
(410) 290-7775 FAX: (410) 290-7775		

Well/Piezometer Abandonment Form		
Well/Piezometer ID: B6-06	6BBB-PZ	
General Project Information:		
Client: EAG		
Site Location: Sparrows Point, MD		
Parcel ID: B6		
Abandonment Date: 513121		
Abandonment Contractor: 65I	6	
Abandonment Method (check appropriate):		
1. PVC \rightarrow Pulled \bigotimes / Split \bigcirc / Perform	ated 1/2 / Left-In-Place	
2. Abandoned \rightarrow Grout \bigotimes / Bentonite Cl	hips 🔿	
Field Equipment: Geoprobe 787	22DT, Grout pump	
ARM Representative(s): L. Perru		
Well Diameter (inches):		
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:	
Reported (historical/log):	Depth to Water (TOC): 6.76	
Measured: 19.09	Depth to NAPL (TOC): +9.09 LP No D/ NAPL	
	n NAPL delineation/monitoring area or individual name of the delineation area (e.g., B6-066 NAPL 36-066	
<u>Please Note:</u> If NAPL is identified in a pier the piezometer may not be abandoned unless t decision has been made to abandon the NAPL		
Additional Comments (if any):		
ARM	Group LLC	
Engineers and Scientists		
9175 Guilfor	s and Scientists rd Road - Suite 310 Maryland 21046	

Well/Piezometer Abandonment Form	
Well/Piezometer ID: B6 -066 BB - P2	
General Project Information:	
Client: EAG	
Site Location: Sparrows Point, MD	
Parcel ID: 76	
Abandonment Date: 112917	
Abandonment Contractor: Anice	
Abandonment Method (circle appropriate):	
1. PVC \rightarrow Pulled Split / Perforated / Left-In	n-Place
2. Abandoned \rightarrow Grout / Bentonite Chips	
Field Equipment: \$ Geoprobe/6 row	machine 95% portland
ARM Representative(s): L. Perrin	
Well Diameter:	
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:
Reported (historical/log):	Depth to Water (TOC):
Measured: 17.25	Depth to NAPL (TOC): NO DNAPZ/ LWAPL
Please note if this abandonment is for a known N	IAPL delineation/monitoring area or individual
NAPL screening piezometer and identify the name Area or B5-144 Screening Piezometer):	
the piezometer may not be abandoned unless the	meter, the Project Manager should be notified and presence of NAPL is already known and a
decision has been made to abandon the NAPL m	
Additional Comments (if any):	
ARM Gr	oun Inc
Earth Resource Engineers and Consultants 9175 Guilford Road - Suite 310	
Columbia, Maryland 21046 (410) 290-7775 FAX: (410) 290-7775	

Well/Piezometer Abandonment Form

Well/Piezometer ID: B6-066B-PZ

General Project Information:

Client: EAG

Site Location: Sparrows Point, MD

Parcel ID: B6

Abandonment Date: 5/24/17

Abandonment Contractor:

Abandonment Method (circle appropriate):

1. PVC \rightarrow Pulled / Split / Perforated / Left-In-Place

2. Abandoned \rightarrow Grout / Bentonite Chips

Field Equipment:

ARM Representative(s): Lisa Perrin

Well Diameter: <u>1"</u>

Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:
Reported (historical/log):	Depth to Water (TOC): Not Measured
Measured: Not Measured	Depth to NAPL (TOC): Not Measured

Please note if this abandonment is for a known NAPL delineation/monitoring area or individual NAPL screening piezometer and identify the name of the delineation area (e.g., B6-066 NAPL Area or B5-144 Screening Piezometer): <u>B6-066</u>

Please Note: If NAPL is identified in a piezometer, the Project Manager should be notified and the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.

Additional Comments (if any):

Transcribed from ARM field book records. Piezometer was found destroyed and was not abandoned.



ARM Group Inc.

Engineers and Scientists 9175 Guilford Road - Suite 310 Columbia, Maryland 21046 (410) 290-7775 FAX: (410) 290-7775

Well/Piezometer Abandonment Form		
Well/Piezometer ID: B6-0666CCC-P2		
General Project Information:		
Client: EAG		
Site Location: Sparrows Point, MD		
Parcel ID: B6		
Abandonment Date: 5(3)21		
Abandonment Contractor: 655		
Abandonment Method (check appropriate):		
1. PVC \rightarrow Pulled \bigcirc + Split \bigcirc / Perforate	d 🝠 / Left-In-Place 🔿	
2. Abandoned \rightarrow Grout \bigcirc 7 Bentonite Chip	s O	
Field Equipment: Greeprobe 7822	DT, Grout primp	
ARM Representative(s): L. Perrin		
Well Diameter (inches):		
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:	
Reported (historical/log):	Depth to Water (TOC): 8-02	
Reported (historical/log): Measured: [6:56 Please note if this abandonment is for a known N NAPL screening piezometer and identify the name	Depth to Water (TOC): 8-02 Depth to NAPL (TOC): 6.53 IAPL delineation/monitoring area or individual	
Reported (historical/log): Measured: 16:56 Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer): 5	Depth to Water (TOC): $g \cdot 02$ Depth to NAPL (TOC): $G \cdot 53$ IAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL 36 - 066 meter, the Project Manager should be notified and presence of NAPL is already known and a	
Reported (historical/log): Measured: 16:56 Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer): 1 Please Note: If NAPL is identified in a piezometer the piezometer may not be abandoned unless the	Depth to Water (TOC): $g-02$ Depth to NAPL (TOC): $G.53$ IAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL 36-066 meter, the Project Manager should be notified and presence of NAPL is already known and a	
Reported (historical/log): Measured: 16:56 Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer): 1 Please Note: If NAPL is identified in a piezometer the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m	Depth to Water (TOC): $g \cdot 02$ Depth to NAPL (TOC): $g \cdot 02$ IAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL 36 - 066 meter, the Project Manager should be notified and presence of NAPL is already known and a	
Reported (historical/log): Measured: 16:56 Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer): 1 Please Note: If NAPL is identified in a piezometer the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m	Depth to Water (TOC): $g-02$ Depth to NAPL (TOC): $G.53$ IAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL 36-066 meter, the Project Manager should be notified and presence of NAPL is already known and a	
Reported (historical/log): Measured: 16:56 Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer): 1 Please Note: If NAPL is identified in a piezometer the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m	Depth to Water (TOC): $g \cdot 02$ Depth to NAPL (TOC): $g \cdot 02$ IAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL 36 - 066 meter, the Project Manager should be notified and presence of NAPL is already known and a	
Reported (historical/log): Measured: 16156 Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer): V Please Note: If NAPL is identified in a piezon the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m Additional Comments (if any):	Depth to Water (TOC): $g-02$ Depth to NAPL (TOC): $G.53$ IAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL 36-066 meter, the Project Manager should be notified and presence of NAPL is already known and a	
Reported (historical/log): Measured: 161576 Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer):	Depth to Water (TOC): §-02 Depth to NAPL (TOC): 6.53 IAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL 36-066 meter, the Project Manager should be notified and presence of NAPL is already known and a onitoring network.	
Reported (historical/log): Measured: 16156 Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer): 16 Please Note: If NAPL is identified in a piezon the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m Additional Comments (if any): ARM Gr Engineers a 9175 Guilford I	Depth to Water (TOC): §-02 Depth to NAPL (TOC): 6.53 IAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL 36-066 meter, the Project Manager should be notified and presence of NAPL is already known and a onitoring network.	

Well/Piezometer Abandonment Form		
Well/Piezometer ID: B6-06	6CC-P2	
General Project Information:		
Client: EAG		
Site Location: Sparrows Point, MD		
Parcel ID: B6		
Abandonment Date: 11/29/17		
Abandonment Contractor: Allied		
Abandonment Method (circle appropriate):		
1. PVC \rightarrow Pulled / Split / Perforated / Left-Ir	n-Place	
2. Abandoned - Grout / Bentonite Chips		
Field Equipment: Geoprobe, Grout mo	white 5% portand	
ARM Representative(s): L. Parcin		
Well Diameter:		
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:	
Reported (historical/log):	Depth to Water (TOC): 0.85	
Measured: 17.53	Depth to NAPL (TOC): No DNAPC/LNAPC	
Please note if this abandonment is for a known N	e	
NAPL screening piezometer and identify the name Area or B5-144 Screening Piezometer):		
the piezometer may not be abandoned unless the	meter, the Project Manager should be notified and presence of NAPL is already known and a	
decision has been made to abandon the NAPL m		
Additional Comments (if any):		
-		
ARM Group Inc.		
Earth Resource Engin	eers and Consultants	
9175 Guilford R Columbia, Ma		
(410) 290-7775 FA		

Well/Piezometer ID: B6-066C-PZ

General Project Information:

Client: EAG

Site Location: Sparrows Point, MD

Parcel ID: B6

Abandonment Date: 2/8/17

Abandonment Contractor:

Abandonment Method (circle appropriate):

1. PVC \rightarrow Pulled / Split / Perforated / Left-In-Place

2. Abandoned \rightarrow Grout / Bentonite Chips

Field Equipment:

ARM Representative(s): Lisa Perrin

Well Diameter: <u>1</u>"

Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:
Reported (historical/log):	Depth to Water (TOC): Not Measured
Measured: Not Measured	Depth to NAPL (TOC): Not Measured

Please note if this abandonment is for a known NAPL delineation/monitoring area or individual NAPL screening piezometer and identify the name of the delineation area (e.g., B6-066 NAPL Area or B5-144 Screening Piezometer): <u>B6-066</u>

Please Note: If NAPL is identified in a piezometer, the Project Manager should be notified and the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.

Additional Comments (if any):

Transcribed from ARM field book records. Piezometer was found destroyed and was not abandoned.



ARM Group Inc.

Well/Piezometer Abandonment Form		
Well/Piezometer ID: 36-066	-59-00C	
General Project Information:		
Client: EAG		
Site Location: Sparrows Point, MD		
Parcel ID: B6		
Abandonment Date: 51312-1		
Abandonment Contractor: GST		
Abandonment Method (check appropriate):		
1. PVC \rightarrow Pulled \bigotimes / Split \bigotimes / Perforate	d 🧭 Left-In-Place 🔘	
2. Abandoned \rightarrow Grout \bigotimes / Bentonite Chip		
	DT Growt pump	
ARM Representative(s): L. Pernin		
Well Diameter (inches):		
Depth to Bottom (TOC) Final Gauging Prior to Abandonment:		
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:	
Depth to Bottom (TOC) Reported (historical/log):	Depth to Water (TOC): 4,81	
	Death to Wester (TOC):	
Reported (historical/log): Measured: Please note if this abandonment is for a known N NAPL screening piezometer and identify the nar	Depth to Water (TOC): 4.81 Depth to NAPL (TOC): NJ DILNAPL APL delineation/monitoring area or individual	
Reported (historical/log): Measured: Please note if this abandonment is for a known N NAPL screening piezometer and identify the nar Area or B5-144 Screening Piezometer):	Depth to Water (TOC): Depth to NAPL (TOC): NJ DILNAPL VAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL B6 -066 meter, the Project Manager should be notified and presence of NAPL is already known and a	
Reported (historical/log): Measured: \[case] note if this abandonment is for a known N NAPL screening piezometer and identify the nar Area or B5-144 Screening Piezometer):	Depth to Water (TOC): Depth to NAPL (TOC): NJ DILNAPL VAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL B6 -066 meter, the Project Manager should be notified and presence of NAPL is already known and a	
Reported (historical/log): Measured: \[case] note if this abandonment is for a known N NAPL screening piezometer and identify the nar Area or B5-144 Screening Piezometer): Please Note: If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m	Depth to Water (TOC): Depth to NAPL (TOC): NJ DILNAPL VAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL B6 -066 meter, the Project Manager should be notified and presence of NAPL is already known and a	
Reported (historical/log): Measured: \[case] note if this abandonment is for a known N NAPL screening piezometer and identify the nar Area or B5-144 Screening Piezometer): Please Note: If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m	Depth to Water (TOC): Depth to NAPL (TOC): NJULNAPL VAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL B6 -066 meter, the Project Manager should be notified and presence of NAPL is already known and a	
Reported (historical/log): Measured: \[case] note if this abandonment is for a known N NAPL screening piezometer and identify the nar Area or B5-144 Screening Piezometer): Please Note: If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m	Depth to Water (TOC): Depth to NAPL (TOC): NJ DILNAPL VAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL B6 -066 meter, the Project Manager should be notified and presence of NAPL is already known and a	
Reported (historical/log): Measured: \[]\]. \[]. \[]. \[]. \[]. \[]. Please note if this abandonment is for a known N NAPL screening piezometer and identify the nar Area or B5-144 Screening Piezometer):	Depth to Water (TOC): 481 Depth to NAPL (TOC): NJ DILNAPL VAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL Bb -066 meter, the Project Manager should be notified and presence of NAPL is already known and a conitoring network.	
Reported (historical/log): Measured: \[]\]. \[]. \[]. \[]. \[]. \[]. Please note if this abandonment is for a known N NAPL screening piezometer and identify the nar Area or B5-144 Screening Piezometer):	Depth to Water (TOC): 4.81 Depth to NAPL (TOC): NJ DILNAPL VAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL B6 -066 meter, the Project Manager should be notified and presence of NAPL is already known and a nonitoring network.	
Reported (historical/log): Measured: \7.62_ Please note if this abandonment is for a known NNAPL screening piezometer and identify the nar Area or B5-144 Screening Piezometer): Please Note: If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m Additional Comments (if any): ARM Green and Stress and S	Depth to Water (TOC): 481 Depth to NAPL (TOC): NJ DILNAPL VAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL Bb -066 meter, the Project Manager should be notified and presence of NAPL is already known and a conitoring network.	

Well/Piezometer Abandonment Form		
Well/Piezometer ID: B6-01	66DD-P2	
General Project Information:		
Client: EAG		
Site Location: Sparrows Point, MD		
Parcel ID: Bb		
Abandonment Date: 11 29 17		
Abandonment Contractor: Milied		
Abandonment Method (circle appropriate):		
1. PVC \rightarrow Pulled / Split / Perforated / Left-In	-Place	
2. Abandoned \rightarrow Grout Bentonite Chips		
Field Equipment: Geoprobe/Grout mar	thing 50 portland	
Field Equipment: Geoprobe/Grout Mac ARM Representative(s): L. Perrin		
Well Diameter:		
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:	
Reported (historical/log):	Depth to Water (TOC): 13.01 To <	
Measured: 17.96 TDC	Depth to NAPL (TOC): NO SNAPL/UNAPL	
Please note if this abandonment is for a known NAPL delineation/monitoring area or individual NAPL screening piezometer and identify the name of the delineation area (e.g., B6-066 NAPL Area or B5-144 Screening Piezometer): $\beta_6 - \delta_6 \delta_7 A_P L_$		
Please Note: If NAPL is identified in a piezometer, the Project Manager should be notified and the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.		
Additional Comments (if any):		
ARM Gr	oup Inc.	
Earth Resource Engineers and Consultants 9175 Guilford Road - Suite 310 Columbia, Maryland 21046 (410) 290-7775 FAX: (410) 290-7775		

Well/Piezometer Abandonment Form		
Well/Piezometer ID: B6-06	6D-PZ-	
General Project Information:		
Client: EAG		
Site Location: Sparrows Point, MD		
Parcel ID: 36		
Abandonment Date: 513121		
Abandonment Contractor: 65I		
Abandonment Method (check appropriate):	An	
1. PVC \rightarrow Pulled $\bigcirc \angle Split \bigcirc$ / Perforate	d 💓 / Left-In-Place 🔘	
2. Abandoned \rightarrow Grout \bigcirc 7 Bentonite Chip		
Field Equipment: Geopro be 7822	DT, Grout pump	
ARM Representative(s): L. Perrin		
Well Diameter (inches):		
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:	
Reported (historical/log):	Depth to Water (TOC):	
Measured:	Depth to NAPL (TOC):	
Please note if this abandonment is for a known NAPL delineation/monitoring area or individual NAPL screening piezometer and identify the name of the delineation area (e.g., B6-066 NAPL Area or B5-144 Screening Piezometer): $B_{6} - O(e_{6})$		
Please Note: If NAPL is identified in a piezometer, the Project Manager should be notified and the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.		
Additional Comments (if any):		
ARM Gr	oup LLC	
Engineers a	nd Scientists	
Engineers a 9175 Guilford I		

Well/Piezometer Abandonment Form			
Well/Piezometer ID: 736-0668222-92			
General Project Information:			
Client: EAG			
Site Location: Sparrows Point, MD			
Parcel ID: \mathcal{B}_{0}			
Abandonment Date: 11 29 17			
Abandonment Contractor: Amied			
Abandonment Method (circle appropriate):			
1. PVC - Pulled / Split / Perforated / Left-	In-Place		
2. Abandoned \rightarrow Grout / Bentonite Chips			
	adhine 5% Bent.		
ARM Representative(s): L. Perrin	ARM Representative(s): L. Pervin		
Well Diameter:)			
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:		
Reported (historical/log):	Depth to Water (TOC): 7.37		
Measured: 17,04	Depth to NAPL (TOC):		
Please note if this abandonment is for a known NAPL delineation/monitoring area or individual NAPL screening piezometer and identify the name of the delineation area (e.g., B6-066 NAPL Area or B5-144 Screening Piezometer):			
<u>Please Note:</u> If NAPL is identified in a piezometer, the Project Manager should be notified and the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.			
Additional Comments (if any):			
	Froup Inc ineers and Consultants		
Earth Resource Eng 9175 Guilford Columbia, M			

Well/Piezometer Abandonment Form		
Well/Piezometer ID: 36-06622-P2		
General Project Information:		
Client: EAG		
Site Location: Sparrows Point, MD		
Parcel ID: B6		
Abandonment Date: 11 29 17		
Abandonment Contractor: Aured		
Abandonment Method (circle appropriate):		
1. PVC \rightarrow Pulled / Split / Perforated / Left-In	n-Place	
2. Abandoned - Grout Bentonite Chips		
Field Equipment: Geoprobe, grout	machine, 5% Bent.	
ARM Representative(s): L. Perron		
Well Diameter:		
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:	
Reported (historical/log):	Depth to Water (TOC): $\%, \%\%$	
Measured: 7,45	Depth to NAPL (TOC):	
Please note if this abandonment is for a known N		
NAPL screening piezometer and identify the name Area or B5-144 Screening Piezometer):		
<u>Please Note:</u> If NAPL is identified in a piezometer, the Project Manager should be notified and the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.		
Additional Comments (if any):		
ARM Group Inc.		
Earth Resource Engin 9175 Guilford R		
Columbia, Ma	Columbia, Maryland 21046	
(410) 290-7775 FA	AX: (410) 290-7775	

Well/Piezometer Abandonment Form		
Well/Piezometer ID: B6-066E-PZ		
General Project Information:		
Client: EAG		
Site Location: Sparrows Point, MD		
Parcel ID: 786		
Abandonment Date: 5(3) 2-1		
Abandonment Contractor: 65I		
Abandonment Method (check appropriate): 1. PVC \rightarrow Pulled / Split / Perforated / Left-In-Place / Ingz' 2. Abandoned \rightarrow Grout / Bentonite Chips /		
Field Equipment: Geoprobe 7822207, Grout pump ARM Representative(s): L. Perron		
Well Diameter (inches):		
Depth to Bottom (TOC) Final Gauging Prior to Abandonment:		
Reported (historical/log):	Depth to Water (TOC): 7.20	
Reported (historical/log): Measured: 14, 83	Depth to Water (TOC): 7.20 Depth to NAPL (TOC): NO D/LNAPL	
Reported (historical/log): Measured: 14,83 Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer):	Depth to Water (TOC): Depth to NAPL (TOC): NO D/LNAPL IAPL delineation/monitoring area or individual the of the delineation area (e.g., B6-066 NAPL B6-066	
Reported (historical/log): Measured: 14,83 Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer):	Depth to Water (TOC): $\gamma \cdot 20$ Depth to NAPL (TOC): $N \circ D / LNAPL$ IAPL delineation/monitoring area or individual the of the delineation area (e.g., B6-066 NAPL B6-066 meter, the Project Manager should be notified and presence of NAPL is already known and a	
Reported (historical/log): Measured: 14, 83 Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer): Please Note: If NAPL is identified in a piezo the piezometer may not be abandoned unless the	Depth to Water (TOC): Depth to NAPL (TOC): NO D/LNAPL IAPL delineation/monitoring area or individual the of the delineation area (e.g., B6-066 NAPL B6-066 meter, the Project Manager should be notified and presence of NAPL is already known and a	
Reported (historical/log): Measured: 14, 83 Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer): Please Note: If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m	Depth to Water (TOC): Depth to NAPL (TOC): NO D/LNAPL IAPL delineation/monitoring area or individual the of the delineation area (e.g., B6-066 NAPL $B_{6}-O(46)$ meter, the Project Manager should be notified and presence of NAPL is already known and a	
Reported (historical/log): Measured: 14, 83 Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer): Please Note: If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m	Depth to Water (TOC): Depth to NAPL (TOC): NO D/LNAPL IAPL delineation/monitoring area or individual the of the delineation area (e.g., B6-066 NAPL $B_{6}-O(46)$ meter, the Project Manager should be notified and presence of NAPL is already known and a	
Reported (historical/log): Measured: 14, 93 Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer): Please Note: If NAPL is identified in a piezor the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m Additional Comments (if any):	Depth to Water (TOC): $\gamma \cdot 20$ Depth to NAPL (TOC): $N \circ D / LNAPL$ IAPL delineation/monitoring area or individual the of the delineation area (e.g., B6-066 NAPL $B \circ O (u \circ)$ meter, the Project Manager should be notified and presence of NAPL is already known and a onitoring network.	
Reported (historical/log): Measured: 14.83 Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer): Please Note: If NAPL is identified in a piezor the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m Additional Comments (if any):	Depth to Water (TOC): Depth to NAPL (TOC): NO D/LNAPL IAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL B6-066 meter, the Project Manager should be notified and presence of NAPL is already known and a onitoring network.	
Reported (historical/log): Measured: 14.83 Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer): Please Note: If NAPL is identified in a piezor the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m Additional Comments (if any): ARM Gr Engineers a 9175 Guilford I Columbia, M	Depth to Water (TOC): $\gamma \cdot 20$ Depth to NAPL (TOC): $N \circ D / LNAPL$ IAPL delineation/monitoring area or individual the of the delineation area (e.g., B6-066 NAPL $B \circ O (u \circ)$ meter, the Project Manager should be notified and presence of NAPL is already known and a onitoring network.	

Well/Piezometer Abandonment Form			
Well/Piezometer ID: B6-066FFF-PZ			
General Project Information:			
Client: EAG			
Site Location: Sparrows Point, MD			
Parcel ID: B6			
Abandonment Date: 5/3/2/			
Abandonment Contractor: 65I			
Abandonment Method (check appropriate):	du		
1. PVC \rightarrow Pulled \bigcirc			
2. Abandoned \rightarrow Grout \checkmark -Bentonite Chip			
Field Equipment: Geoprobe 7822DT, Grout prump			
ARM Representative(s): L. Perrin			
Well Diameter (inches):	Well Diameter (inches):		
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:		
Reported (historical/log):	Depth to Water (TOC): 6-55		
Measured: 8-00	Depth to NAPL (TOC): NO DILNAPL		
Please note if this abandonment is for a known NAPL delineation/monitoring area or individual NAPL screening piezometer and identify the name of the delineation area (e.g., B6-066 NAPL Area or B5-144 Screening Piezometer): $\underline{\$b} = 0.64$			
<u>Please Note:</u> If NAPL is identified in a piezometer, the Project Manager should be notified and the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.			
Additional Comments (if any): Was previously gauged DTB to 8' but removed ~ 12' PVCtScreen			
ARM Group LLCEngineers and Scientists9175 Guilford Road - Suite 310Columbia, Maryland 21046(410) 290-7775 FAX: (410) 290-7775			

Well/Piezometer ID: B6-066FF-PZ

General Project Information:

Client: EAG

Site Location: Sparrows Point, MD

Parcel ID: B6

Abandonment Date: 11/29/17

Abandonment Contractor: Allied

Abandonment Method (circle appropriate):

- 1. PVC (Pulled) Split / Perforated / Left-In-Place
- 2. Abandoned + Grout) Bentonite Chips

Field Equipment: Geoprobe 7822DT, Grout Pump

ARM Representative(s): Lisa Perrin

Well Diameter: <u>1"</u>

Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:
Reported (historical/log):	Depth to Water (TOC): 12.12'
Measured: 17.34'	Depth to NAPL (TOC): No LNAPL/DNAPL

Please note if this abandonment is for a known NAPL delineation/monitoring area or individual NAPL screening piezometer and identify the name of the delineation area (e.g., B6-066 NAPL Area or B5-144 Screening Piezometer): <u>B6-066</u>

Please Note: If NAPL is identified in a piezometer, the Project Manager should be notified and the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.

Additional Comments (if any):

Transcribed from ARM field book records.



ARM Group Inc.

weil/Piezometer A	bandonment Form	
Well/Piezometer ID: B6-06	bF-pz	
General Project Information:		
Client: EAG		
Site Location: Sparrows Point, MD		
Parcel ID: Bb		
Abandonment Date: 513121		
Abandonment Contractor: 65F		
Abandonment Method (check appropriate):	d.	
1. PVC \rightarrow Pulled S / Split O / Perforated / Left-In-Place O		
2. Abandoned \rightarrow Grout \bigotimes / Bentonite Chip		
	2007, Geout pump	
ARM Representative(s): L. Perrin		
Well Diameter (inches):		
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:	
Reported (historical/log):	Depth to Water (TOC): 8.00	
Measured: 16.51	Depth to NAPL (TOC): 5,99	
Please note if this abandonment is for a known NAPL screening piezometer and identify the nar Area or B5-144 Screening Piezometer):	ne of the delineation area (e.g., B6-066 NAPL	
<u>Please Note:</u> If NAPL is identified in a piezo the piezometer may not be abandoned unless the	presence of NAPL is already known and a	
decision has been made to abandon the NAPL m		
Additional Comments (if any):		
Additional Comments (if any):	roup LLC	
Additional Comments (if any):	and Scientists	
Additional Comments (if any): ARM Gr Engineers a 9175 Guilford		

1

Well/Piezometer ID: B6-066GGG-PZ

General Project Information:

Client: EAG

Site Location: Sparrows Point, MD

Parcel ID: B6

Abandonment Date: 11/29/17

Abandonment Contractor:

Abandonment Method (circle appropriate):

1. PVC \rightarrow Pulled / Split / Perforated / Left-In-Place

2. Abandoned \rightarrow Grout / Bentonite Chips

Field Equipment:

ARM Representative(s): Lisa Perrin

Well Diameter: <u>1</u>"

Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:
Reported (historical/log):	Depth to Water (TOC): Not Measured
Measured: Not Measured	Depth to NAPL (TOC): Not Measured

Please note if this abandonment is for a known NAPL delineation/monitoring area or individual NAPL screening piezometer and identify the name of the delineation area (e.g., B6-066 NAPL Area or B5-144 Screening Piezometer): <u>B6-066</u>

Please Note: If NAPL is identified in a piezometer, the Project Manager should be notified and the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.

Additional Comments (if any):

Transcribed from ARM field book records. Piezometer was found destroyed and was not abandoned.



ARM Group Inc.

Well/Piezometer ID: B6-066GG-PZ

General Project Information:

Client: EAG

Site Location: Sparrows Point, MD

Parcel ID: B6

Abandonment Date: 11/29/17

Abandonment Contractor: Allied

Abandonment Method (circle appropriate):

- 1. PVC (Pulled) Split / Perforated / Left-In-Place
- 2. Abandoned + Grout) Bentonite Chips

Field Equipment: Geoprobe 7822DT, Grout Pump

ARM Representative(s): Lisa Perrin

Well Diameter: <u>1</u>"

Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:
Reported (historical/log):	Depth to Water (TOC): 12.04'
Measured: 17.91'	Depth to NAPL (TOC): No LNAPL/DNAPL

Please note if this abandonment is for a known NAPL delineation/monitoring area or individual NAPL screening piezometer and identify the name of the delineation area (e.g., B6-066 NAPL Area or B5-144 Screening Piezometer): <u>B6-066</u>

Please Note: If NAPL is identified in a piezometer, the Project Manager should be notified and the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.

Additional Comments (if any):

Transcribed from ARM field book records.



ARM Group Inc.

Well/Piezometer ID: B6-0666-92 General Project Information: Client: EAG Site Location: Sparrows Point, MD Parcel ID: B6 Abandonment Date: 513(2-1)		
Client: EAG Site Location: Sparrows Point, MD Parcel ID: BL Abandonment Date: 513(21)		
Site Location: Sparrows Point, MD Parcel ID: Bb Abandonment Date: 513(2)		
Parcel ID: B6 Abandonment Date: 513(2)		
Abandonment Date: 5[3[2]		
A her dearment Contractor:		
Abandonment Contractor:		
Abandonment Method (check appropriate):	not	
1. PVC \rightarrow Pulled \bigcirc / Split \bigcirc / Perforated \bigcirc / Left-In-Place \bigcirc \bigcirc \bigcirc \bigcirc	lon	
2. Abandoned \rightarrow Grout \bigcirc / Bentonite Chips \circlearrowright		
Field Equipment: NA		
ARM Representative(s): L Perrun	·	
Well Diameter (inches):		
Depth to Bottom (TOC) Final Gauging Prior to Abandon	nment:	
Reported (historical/log): Depth to Water (TOC): NA		
Measured: Depth to NAPL (TOC): NA-		
Please note if this abandonment is for a known NAPL delineation/monitoring area or individual NAPL screening piezometer and identify the name of the delineation area (e.g., B6-066 NAPL Area or B5-144 Screening Piezometer): $B_{6} - 066$		
<u>Please Note:</u> If NAPL is identified in a piezometer, the Project Manager should be notified and the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.		
Additional Comments (if any):		
Could not locate I destroyed		
ARM Group LLC		
Engineers and Scientists 9175 Guilford Road - Suite 310		
Columbia, Maryland 21046		
(410) 290-7775 FAX: (410) 290-7775		

Well/Piezometer Abandonment Form		
Well/Piezometer ID: B6-HHH-PZ		
General Project Information:		
Client: EAG		
Site Location: Sparrows Point, MD		
Parcel ID: Bb		
Abandonment Date: 5(3 2)		
Abandonment Contractor:		
Abandonment Method (check appropriate): 1. PVC \rightarrow Pulled \bigcirc / Split \bigcirc / Perforated \bigcirc / Left-In-Place \bigcirc Did not 2. Abandoned \rightarrow Grout \bigcirc / Bentonite Chips \bigcirc		
Field Equipment: NA		
ARM Representative(s): L. Pernin		
Well Diameter (inches):1		
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:	
Reported (historical/log):	Depth to Water (TOC):	
Measured: NA	Depth to NAPL (TOC):	
Please note if this abandonment is for a known NAPL delineation/monitoring area or individual NAPL screening piezometer and identify the name of the delineation area (e.g., B6-066 NAPL Area or B5-144 Screening Piezometer): $B_{6} - \partial b_{6}$		
Please Note: If NAPL is identified in a piezometer, the Project Manager should be notified and the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.		
Additional Comments (if any):		
Could not locate & destroyed		
ARM Group LLC		
Engineers and Scientists		
9175 Guilford Road - Suite 310 Columbia, Maryland 21046		
(410) 290-7775 FAX: (410) 290-7775		

Well/Piezometer Abandonment Form		
Well/Piezometer ID: B6 - 066 H H - P2		
General Project Information:		
Client: EAG		
Site Location: Sparrows Point, MD		
Parcel ID: Bb		
Abandonment Date: 11/29/17		
Abandonment Contractor: Aucd		
Abandonment Method (circle appropriate):		
1. PVC — Pulled / Split / Perforated / Left-In	-Place	
2. Abandoned \rightarrow Grout / Bentonite Chips		
Field Equipment: <u>600 probe/6rout</u> man	chine 9500 portland 5/20 pent.	
ARM Representative(s): Lifervin		
Well Diameter:		
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:	
Reported (historical/log):	Depth to Water (TOC): 12,14	
Measured: 17:03	Depth to NAPL (TOC): NO DWAPY LNAPL	
Please note if this abandonment is for a known NAPL delineation/monitoring area or individual NAPL screening piezometer and identify the name of the delineation area (e.g., B6-066 NAPL Area or B5-144 Screening Piezometer):		
Please Note: If NAPL is identified in a piezometer, the Project Manager should be notified and the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.		
Additional Comments (if any):		
ARM Group Inc.		
Earth Resource Engineers and Consultants 9175 Guilford Road - Suite 310 Columbia, Maryland 21046 (410) 290-7775 FAX: (410) 290-7775		

Well/Piezometer Abandonment Form		
Well/Piezometer ID: 36 - 06	Well/Piezometer ID: 86 - 0664 - P2	
General Project Information:		
Client: EAG		
Site Location: Sparrows Point, MD		
Parcel ID: Ble		
Abandonment Date: 11/29/17 and 1	1/28/17	
Abandonment Contractor: All ed		
Abandonment Method (circle appropriate):	N	
1. PVC – Pulled/ Split / Perforated / Left-Ir	n-Place	
2. Abandoned - Grout / Bentonite Chips		
Field Equipment: Geoprobe Grout m	adrine 5% Portland 5% Centonite	
ARM Representative(s): Lifervin		
Well Diameter:		
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:	
Reported (historical/log):	Depth to Water (TOC): 10.32	
Measured: [6,23	Depth to NAPL (TOC): NO DNAPL/2NAPL	
Please note if this abandonment is for a known N	-	
NAPL screening piezometer and identify the nan Area or B5-144 Screening Piezometer): $_\{\beta}$		
the piezometer may not be abandoned unless the	meter, the Project Manager should be notified and presence of NAPL is already known and a	
decision has been made to abandon the NAPL m	-	
Additional Comments (if any):		
(#)		
ARM Group Inc.		
Earth Resource Engineers and Consultants		
9175 Guilford Road - Suite 310		
Columbia, Maryland 21046 (410) 290-7775 FAX: (410) 290-7775		

Abandonment Form		
066 III-p2		
Site Location: Sparrows Point, MD		
Abandonment Date: ()/29/17		
In-Place E per E. magdar		
machine 5% Bent		
Final Gauging Prior to Abandonment:		
Depth to Water (TOC): 8.77		
Depth to NAPL (TOC): NO DNAPL/UNAPL		
/		
NAPL delineation/monitoring area or individual me of the delineation area (e.g., B6-066 NAPL <u>-066 NAPC</u> ometer, the Project Manager should be notified an		
me of the delineation area (e.g., B6-066 NAPL <u>066 NAPC</u> ometer, the Project Manager should be notified an e presence of NAPL is already known and a		
me of the delineation area (e.g., B6-066 NAPL <u>-066 NAPC</u> ometer, the Project Manager should be notified ar		
me of the delineation area (e.g., B6-066 NAPL <u>066</u> <u>NAPC</u> ometer, the Project Manager should be notified an e presence of NAPL is already known and a nonitoring network.		

Well/Piezometer Abandonment Form		
Well/Piezometer ID: B6-066 II-P2		
General Project Information:		
Client: EAG		
Site Location: Sparrows Point, MD		
Parcel ID: 66		
Abandonment Date: 11/29/17		
Abandonment Contractor: Alled		
Abandonment Method (circle appropriate):		
1. PVC - Pulled Split / Perforated / Left-Ir	n-Place	
2. Abandoned \rightarrow Grout Bentonite Chips		
Field Equipment: beoprobe, browt	machine 95% portland 5% bent.	
ARM Representative(s): L. Perrin		
Well Diameter:		
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:	
Reported (historical/log):	Depth to Water (TOC): 8.55	
Measured: 17.90	Depth to NAPL (TOC): 8.55 Depth to NAPL (TOC): NO $LNAPL$	
Please note if this abandonment is for a known N	-	
NAPL screening piezometer and identify the name Area or B5-144 Screening Piezometer):		
<u>Please Note:</u> If NAPL is identified in a piezometer, the Project Manager should be notified and the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.		
Additional Comments (if any):		
ARM Group Inc.		
Earth Resource Engineers and Consultants		
9175 Guilford Road - Suite 310 Columbia, Maryland 21046		
(410) 290-7775 FAX: (410) 290-7775		

Well/Piezometer ID: B6-066I-PZ

General Project Information:

Client: EAG

Site Location: Sparrows Point, MD

Parcel ID: B6

Abandonment Date: 5/4/18

Abandonment Contractor:

Abandonment Method (circle appropriate):

1. PVC \rightarrow Pulled / Split / Perforated / Left-In-Place

2. Abandoned \rightarrow Grout / Bentonite Chips

Field Equipment:

ARM Representative(s): Lisa Perrin

Well Diameter: <u>1"</u>

Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:
Reported (historical/log):	Depth to Water (TOC): Not Measured
Measured: Not Measured	Depth to NAPL (TOC): Not Measured

Please note if this abandonment is for a known NAPL delineation/monitoring area or individual NAPL screening piezometer and identify the name of the delineation area (e.g., B6-066 NAPL Area or B5-144 Screening Piezometer): <u>B6-066</u>

Please Note: If NAPL is identified in a piezometer, the Project Manager should be notified and the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.

Additional Comments (if any):

Transcribed from ARM field book records. Piezometer was found destroyed and was not abandoned.



ARM Group Inc.

Well/Piezometer Abandonment Form		
Well/Piezometer ID: B6-06	6JJJ-P2-	
General Project Information:		
Client: EAG		
Site Location: Sparrows Point, MD		
Parcel ID: Bb		
Abandonment Date: 5 321		
Abandonment Contractor: 65I		
Abandonment Method (check appropriate):		
1. PVC \rightarrow Pulled \bigcirc / Split \bigcirc / Perforate	d 😥 / Left-In-Place 🔿	
2. Abandoned \rightarrow Grout/ \bigcirc +Bentonite Chip	s O	
Field Equipment: Geoprobe 73222	ST, Grover pump	
ARM Representative(s): Liferrn		
Well Diameter (inches):		
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:	
Reported (historical/log):	Depth to Water (TOC): 8.00	
Measured:		
Measured: 21,44	Depth to NAPL (TOC): NO DILNAPC	
Please note if this abandonment is for a known N NAPL screening piezometer and identify the name	APL delineation/monitoring area or individual	
Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer):	APL delineation/monitoring area or individual the of the delineation area (e.g., B6-066 NAPL o - o 6 6 meter, the Project Manager should be notified and presence of NAPL is already known and a	
Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer):	APL delineation/monitoring area or individual the of the delineation area (e.g., B6-066 NAPL o - o 6 6 meter, the Project Manager should be notified and presence of NAPL is already known and a	
Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer): <u>BU</u> <u>Please Note:</u> If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m	APL delineation/monitoring area or individual the of the delineation area (e.g., B6-066 NAPL o - o 6 6 meter, the Project Manager should be notified and presence of NAPL is already known and a	
Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer): <u>BU</u> <u>Please Note:</u> If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m	APL delineation/monitoring area or individual the of the delineation area (e.g., B6-066 NAPL o - o 6 6 meter, the Project Manager should be notified and presence of NAPL is already known and a	
Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer): <u>BU</u> <u>Please Note:</u> If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m	APL delineation/monitoring area or individual the of the delineation area (e.g., B6-066 NAPL o - o 6 6 meter, the Project Manager should be notified and presence of NAPL is already known and a	
Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer): <u>BU</u> <u>Please Note:</u> If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m Additional Comments (if any):	APL delineation/monitoring area or individual the of the delineation area (e.g., B6-066 NAPL o - o 6 6 meter, the Project Manager should be notified and presence of NAPL is already known and a	
Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer):	APL delineation/monitoring area or individual the of the delineation area (e.g., B6-066 NAPL o - • • • • • • • • • • • • • • • • • •	
Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer):	TAPL delineation/monitoring area or individual the of the delineation area (e.g., B6-066 NAPL o - o 6 6 0 meter, the Project Manager should be notified and presence of NAPL is already known and a onitoring network.	

Well/Piezometer Abandonment Form		
Well/Piezometer ID: Ble-066JJ-PZ		
General Project Information:		
Client: EAG		
Site Location: Sparrows Point, MD		
Parcel ID: B6		
Abandonment Date: 51314		
Abandonment Contractor:		
Abandonment Method (check appropriate): 1. PVC \rightarrow Pulled \bigcirc / Split \bigcirc / Perforated \bigcirc / Left-In-Place \bigcirc		
2. Abandoned \rightarrow Grout \bigcirc / Bentonite Chip	s U	
Field Equipment: NA-		
ARM Representative(s): L Parvin		
Well Diameter (inches):		
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:	
Reported (historical/log):	Depth to Water (TOC): NA	
Measured: NA	Depth to NAPL (TOC): NA	
Please note if this abandonment is for a known NAPL delineation/monitoring area or individual NAPL screening piezometer and identify the name of the delineation area (e.g., B6-066 NAPL Area or B5-144 Screening Piezometer): $bb - obb$		
<u>Please Note:</u> If NAPL is identified in a piezometer, the Project Manager should be notified and the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.		
Additional Comments (if any):	٨	
Could not locate -> destroyed		
ARM Group LLC		
Engineers a	nd Scientists	
1 S A	Road - Suite 310	
Columbia, Maryland 21046 (410) 290-7775 FAX: (410) 290-7775		

Well/Piezometer Abandonment Form		
Well/Piezometer ID: B6-066	, J-pz	
General Project Information:		
Client: EAG		
Site Location: Sparrows Point, MD		
Parcel ID: 736		
Abandonment Date: 51321		
Abandonment Contractor:		
Abandonment Method (check appropriate): 1. PVC → Pulled O / Split O / Perforated O / Left-In-Place O Abandon 2. Abandoned → Grout O / Bentonite Chips O		
Field Equipment: MA-		
ARM Representative(s): L Permi		
Well Diameter (inches):		
Depth to Bottom (TOC) Final Gauging Prior to Abandonment:		
Reported (historical/log):	Depth to Water (TOC): NA	
Measured: NA	Depth to NAPL (TOC): NA	
Please note if this abandonment is for a known NAPL delineation/monitoring area or individual NAPL screening piezometer and identify the name of the delineation area (e.g., B6-066 NAPL Area or B5-144 Screening Piezometer): $Bb - 0bb$		
<u>Please Note:</u> If NAPL is identified in a piezometer, the Project Manager should be notified and the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.		
Additional Comments (if any):		
Could not locate => destroyed		
ARM Group LLCEngineers and Scientists9175 Guilford Road - Suite 310Columbia, Maryland 21046(410) 290-7775FAX: (410) 290-7775		

Well/Piezometer Abandonment Form		
Well/Piezometer ID: B6-066 KKK-P2		
General Project Information:		
Client: EAG		
Site Location: Sparrows Point, MD		
Parcel ID: B6		
Abandonment Date: 11/29/17		
Abandonment Contractor: Allied		
Abandonment Method (circle appropriate):		
1. PVC -> Pulled / Split / Perforated / Left-Ir	n-Place	
2. Abandoned - Grout / Bentonite Chips		
Field Equipment: Geoprobe / Gravt ma	ectino 5% Portland	
ARM Representative(s):		
Well Diameter:		
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:	
Reported (historical/log):	Depth to Water (TOC): 13.60	
Measured:	Depth to NAPL (TOC): NO DNAPL/CNAPL	
Please note if this abandonment is for a known N	-	
NAPL screening piezometer and identify the nan Area or B5-144 Screening Piezometer):		
<u>Please Note:</u> If NAPL is identified in a piezometer, the Project Manager should be notified and the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.		
Additional Comments (if any):		
ARM Group Inc.		
Earth Resource Engineers and Consultants 9175 Guilford Road - Suite 310 Columbia, Maryland 21046 (410) 290-7775 FAX: (410) 290-7775		

Well/Piezometer ID: B6-066KK-PZ

General Project Information:

Client: TPA

Site Location: Sparrows Point, MD

Parcel ID: B6

Abandonment Date: 1/12/21

Abandonment Contractor:

Abandonment Method (circle appropriate):

1. PVC \rightarrow Pulled / Split / Perforated / Left-In-Place

2. Abandoned \rightarrow Grout / Bentonite Chips

Field Equipment:

ARM Representative(s): Lisa Perrin

Well Diameter: <u>1</u>"

Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:
Reported (historical/log):	Depth to Water (TOC): Not Measured
Measured: Not Measured	Depth to NAPL (TOC): Not Measured

Please note if this abandonment is for a known NAPL delineation/monitoring area or individual NAPL screening piezometer and identify the name of the delineation area (e.g., B6-066 NAPL Area or B5-144 Screening Piezometer): <u>B6-066</u>

Please Note: If NAPL is identified in a piezometer, the Project Manager should be notified and the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.

Additional Comments (if any):

Transcribed from ARM field book records. Piezometer was found destroyed and was not abandoned.



ARM Group Inc.

Well/Piezometer ID: B6-066H-PZ

General Project Information:

Client: EAG

Site Location: Sparrows Point, MD

Parcel ID: B6

Abandonment Date: 11/29/17

Abandonment Contractor: Allied

Abandonment Method (circle appropriate):

- 1. PVC (Pulled) Split / Perforated / Left-In-Place
- 2. Abandoned + Grout) Bentonite Chips

Field Equipment: Geoprobe 7822DT, Grout Pump

ARM Representative(s): Lisa Perrin

Well Diameter: <u>1"</u>

Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:
Reported (historical/log):	Depth to Water (TOC): 10.32'
Measured: 16.23'	Depth to NAPL (TOC): No LNAPL/DNAPL

Please note if this abandonment is for a known NAPL delineation/monitoring area or individual NAPL screening piezometer and identify the name of the delineation area (e.g., B6-066 NAPL Area or B5-144 Screening Piezometer): <u>B6-066</u>

Please Note: If NAPL is identified in a piezometer, the Project Manager should be notified and the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.

Additional Comments (if any):

Transcribed from ARM field book records.



ARM Group Inc.

Well/Piezometer Abandonment Form	
Well/Piezometer ID: B6-066LLL-PZ	
General Project Information:	
Client: EAG	
Site Location: Sparrows Point, MD	
Parcel ID: B6	
Abandonment Date: 11 29/17	
Abandonment Contractor: Allied	
Abandonment Method (circle appropriate):	
1. PVC \rightarrow Pulled / Split / Perforated / Left-In-Place	
2. Abandoned \rightarrow Grout / Bentonite Chips	
Field Equipment: <u>Geoprobe</u> /Grout machine 95% portiand ARM Representative(s):	
ARM Representative(s): L. Perrin	
Well Diameter:	
Depth to Bottom (TOC) Final Gauging Prior to Abandonment:	
Reported (historical/log):Depth to Water (TOC):12.73Measured:21.43Depth to NAPL (TOC):DNAPL/LWAPL	
Measured: 21.43 Depth to NAPL (TOC): NO DWAPL/LWAPL	
Please note if this abandonment is for a known NAPL delineation/monitoring area or individual	
NAPL screening piezometer and identify the name of the delineation area (e.g., B6-066 NAPL Area or B5-144 Screening Piezometer):	
<u>Please Note:</u> If NAPL is identified in a piezometer, the Project Manager should be notified and the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.	
Additional Comments (if any):	
ARM Group Inc.	
Earth Resource Engineers and Consultants 9175 Guilford Road - Suite 310 Columbia, Maryland 21046 (410) 290-7775 FAX: (410) 290-7775	

Well/Piezometer ID: B6-066LL-PZ

General Project Information:

Client: EAG

Site Location: Sparrows Point, MD

Parcel ID: B6

Abandonment Date: 4/14/18

Abandonment Contractor:

Abandonment Method (circle appropriate):

1. PVC \rightarrow Pulled / Split / Perforated / Left-In-Place

2. Abandoned \rightarrow Grout / Bentonite Chips

Field Equipment:

ARM Representative(s): Lisa Perrin

Well Diameter: <u>1"</u>

Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:
Reported (historical/log):	Depth to Water (TOC): Not Measured
Measured: Not Measured	Depth to NAPL (TOC): Not Measured

Please note if this abandonment is for a known NAPL delineation/monitoring area or individual NAPL screening piezometer and identify the name of the delineation area (e.g., B6-066 NAPL Area or B5-144 Screening Piezometer): <u>B6-066</u>

Please Note: If NAPL is identified in a piezometer, the Project Manager should be notified and the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.

Additional Comments (if any):

Transcribed from ARM field book records. Piezometer was found destroyed and was not abandoned.



ARM Group Inc.

Well/Piezometer Abandonment Form		
Well/Piezometer ID: B6-0666-PZ		
General Project Information:		
Client: EAG		
Site Location: Sparrows Point, MD		
Parcel ID: B6		
Abandonment Date: 5 3 21		
Abandonment Contractor: 65I		
Abandonment Method (check appropriate):		
1. PVC \rightarrow Pulled \bigcirc + Split \bigcirc / Perforate	d	
2. Abandoned \rightarrow Growt \checkmark -Bentonite Chip		
Field Equipment: Geoprobe 7822	DT, Grout pump	
ARM Representative(s): L. Perrin		
Well Diameter (inches):		
Depth to Bottom (TOC)		
Reported (historical/log):	Depth to Water (TOC): 7.95	
Measured: 17.99	Depth to NAPL (TOC): NO DILNAPL	
Please note if this abandonment is for a known NNAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer):	ne of the delineation area (e.g., B6-066 NAPL	
Please Note: If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m		
Additional Comments (if any):		
Engineers a 9175 Guilford I Columbia, M	roup LLC nd Scientists Road - Suite 310 aryland 21046 AX: (410) 290-7775	

Well/Piezometer Abandonment Form	
Well/Piezometer ID: B6=066mmm-PZ	
General Project Information:	
Client: EAG	
Site Location: Sparrows Point, MD	
Parcel ID: Bb	
Abandonment Date: 513121	
Abandonment Contractor: 65I	
Abandonment Method (check appropriate):	
1. PVC \rightarrow Pulled \bigcirc / Split \bigcirc / Perforate	d 💽 / Left-In-Place 🔘
2. Abandoned \rightarrow Grout \bigcirc	
Field Equipment: 6 coprobe 782	2D+, Grout pump
ARM Representative(s): L. Purin	
Well Diameter (inches):	_
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:
Reported (historical/log):	Depth to Water (TOC): 11.0D
	De-th to Weter (TOC):
Reported (historical/log): Measured: (5.58 Please note if this abandonment is for a known N NAPL screening piezometer and identify the name	Depth to Water (TOC): Depth to NAPL (TOC): ND D/LNAPL IAPL delineation/monitoring area or individual me of the delineation area (e.g., B6-066 NAPL
Reported (historical/log): Measured: 5.58 Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer): B(Depth to Water (TOC): Depth to NAPL (TOC): ND D/LNAPL IAPL delineation/monitoring area or individual the of the delineation area (e.g., B6-066 NAPL $p - \mathcal{D}(\mathcal{L}(\mathcal{L}))$ meter, the Project Manager should be notified and presence of NAPL is already known and a
Reported (historical/log): Measured: 15.58 Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer): B Please Note: If NAPL is identified in a piezo the piezometer may not be abandoned unless the	Depth to Water (TOC): Depth to NAPL (TOC): ND D/LNAPL IAPL delineation/monitoring area or individual the of the delineation area (e.g., B6-066 NAPL $p - \mathcal{D}(\mathcal{L}(\mathcal{L}))$ meter, the Project Manager should be notified and presence of NAPL is already known and a
Reported (historical/log): Measured: 15.58 Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer): B Please Note: If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m	Depth to Water (TOC): Depth to NAPL (TOC): NO D/LNAPL IAPL delineation/monitoring area or individual the of the delineation area (e.g., B6-066 NAPL $p = \mathcal{D}(e)$ meter, the Project Manager should be notified and presence of NAPL is already known and a
Reported (historical/log): Measured: 5.58 Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer): B Please Note: If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m	Depth to Water (TOC): Depth to NAPL (TOC): NO D/LNAPL IAPL delineation/monitoring area or individual the of the delineation area (e.g., B6-066 NAPL $p = \mathcal{D}(e)$ meter, the Project Manager should be notified and presence of NAPL is already known and a
Reported (historical/log): Measured: 5.58 Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer): B Please Note: If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m	Depth to Water (TOC): Depth to NAPL (TOC): ND D/LNAPL IAPL delineation/monitoring area or individual the of the delineation area (e.g., B6-066 NAPL $p - \mathcal{D}(\mathcal{L}(\mathcal{L}))$ meter, the Project Manager should be notified and presence of NAPL is already known and a
Reported (historical/log): Measured: 15.58 Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer): B(expected) Please Note: If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m Additional Comments (if any): Additional Comments (if any):	Depth to Water (TOC): Depth to NAPL (TOC): ND D/LNAPL IAPL delineation/monitoring area or individual the of the delineation area (e.g., B6-066 NAPL $p - \mathcal{D}(\mathcal{L}(\mathcal{L}))$ meter, the Project Manager should be notified and presence of NAPL is already known and a
Reported (historical/log): Measured: 15.58 Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer): B(e) Please Note: If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m Additional Comments (if any): ARM Gr	Depth to Water (TOC): Depth to NAPL (TOC): ND D/LWAPL IAPL delineation/monitoring area or individual the of the delineation area (e.g., B6-066 NAPL o TOLOLO meter, the Project Manager should be notified and presence of NAPL is already known and a onitoring network.
Reported (historical/log): Measured: 15.58 Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer): B4 Please Note: If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m Additional Comments (if any): ARM Gr Engineers a 9175 Guilford I	Depth to Water (TOC): $11.0D$ Depth to NAPL (TOC): ND $J/LWAPL$ IAPL delineation/monitoring area or individual the of the delineation area (e.g., B6-066 NAPL $p - \mathcal{D}\mathcal{L}\mathcal{L}\mathcal{L}$ meter, the Project Manager should be notified and presence of NAPL is already known and a onitoring network.

Well/Piezometer ID: B6-066MM-PZ

General Project Information:

Client: TPA

Site Location: Sparrows Point, MD

Parcel ID: B6

Abandonment Date: 1/12/21

Abandonment Contractor:

Abandonment Method (circle appropriate):

1. PVC \rightarrow Pulled / Split / Perforated / Left-In-Place

2. Abandoned \rightarrow Grout / Bentonite Chips

Field Equipment:

ARM Representative(s): Lisa Perrin

Well Diameter: <u>1"</u>

Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:
Reported (historical/log):	Depth to Water (TOC): Not Measured
Measured: Not Measured	Depth to NAPL (TOC): Not Measured

Please note if this abandonment is for a known NAPL delineation/monitoring area or individual NAPL screening piezometer and identify the name of the delineation area (e.g., B6-066 NAPL Area or B5-144 Screening Piezometer): <u>B6-066</u>

Please Note: If NAPL is identified in a piezometer, the Project Manager should be notified and the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.

Additional Comments (if any):

Transcribed from ARM field book records. Piezometer was found destroyed and was not abandoned.



ARM Group Inc.

Well/Piezometer Abandonment Form	
Well/Piezometer ID: B6-066m-PZ	
General Project Information:	
Client: EAG	
Site Location: Sparrows Point, MD	
Parcel ID: B6	
Abandonment Date: 513121	
Abandonment Contractor: 65I	
Abandonment Method (check appropriate):	
1. PVC \rightarrow Pulled \bigotimes Split \bigotimes / Perforate	d Left-In-Place 🔘
2. Abandoned \rightarrow Grout 7 Bentonite Chip	
Field Equipment: Geoprobe 7822	DT, Grout prump
ARM Representative(s): L. Perrin	
Well Diameter (inches):	
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:
Depth to Bottom (TOC) Reported (historical/log):	Depth to Water (TOC):
	Donth to Water (TOC):
Reported (historical/log): Measured: Please note if this abandonment is for a known N NAPL screening piezometer and identify the nar Area or B5-144 Screening Piezometer):	Depth to Water (TOC): Depth to NAPL (TOC): NO $P/LNAP$ VAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL $P_b - O(G_b)$ meter, the Project Manager should be notified and presence of NAPL is already known and a
Reported (historical/log): Measured: Variable of this abandonment is for a known N NAPL screening piezometer and identify the nar Area or B5-144 Screening Piezometer): Please Note: If NAPL is identified in a piezo the piezometer may not be abandoned unless the	Depth to Water (TOC): Depth to NAPL (TOC): NO $P/LNAPL$ VAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL $P_b - O(G_b)$ meter, the Project Manager should be notified and presence of NAPL is already known and a
Reported (historical/log): Measured: V8.01 Please note if this abandonment is for a known NNAPL screening piezometer and identify the nar Area or B5-144 Screening Piezometer): Please Note: If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m Additional Comments (if any):	Depth to Water (TOC): Depth to NAPL (TOC): NO $P/LNAP$ VAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL $P_b - O(G_b)$ meter, the Project Manager should be notified and presence of NAPL is already known and a
Reported (historical/log): Measured: V8.01 Please note if this abandonment is for a known NNAPL screening piezometer and identify the nar Area or B5-144 Screening Piezometer): Please Note: If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m Additional Comments (if any):	Depth to Water (TOC): 0.60 Depth to NAPL (TOC): $NO P/UNAP$ NAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL Pb - O(66) meter, the Project Manager should be notified and presence of NAPL is already known and a conitoring network.
Reported (historical/log): Measured: V8.01 Please note if this abandonment is for a known NNAPL screening piezometer and identify the nar Area or B5-144 Screening Piezometer): Please Note: If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m Additional Comments (if any): ARM Green and structure and structure are are and structure are are and structure are are and structure are are are and structure are are are are are are are are are a	Depth to Water (TOC): 10.60 Depth to NAPL (TOC): $NO P/LNAPL$ NAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL Pb - O(ab) meter, the Project Manager should be notified and presence of NAPL is already known and a conitoring network.

Well/Piezometer Abandonment Form	
Well/Piezometer ID: B6-066NNN-PZ	
General Project Information:	
Client: EAG	
Site Location: Sparrows Point, MD	
Parcel ID: -B6	
Abandonment Date: 513121	
Abandonment Contractor: 655	
Abandonment Method (check appropriate):	
1. PVC \rightarrow Pulled \bigcirc + Split \bigcirc / Perforate	
2. Abandoned \rightarrow Grout \bigcirc -Bentonite Chip	s Ó
Field Equipment: Geoprobe 7822	DT, Growt pump
ARM Representative(s): LiPerrin	
Well Diameter (inches):	
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:
	Depth to Water (TOC): 6-36
Depth to Bottom (TOC)	Dowth to Water (TOC):
Depth to Bottom (TOC) Reported (historical/log):	Depth to Water (TOC): Depth to NAPL (TOC): NO D/LNAPL (APL delineation/monitoring area or individual the of the delineation area (e.g., B6-066 NAPL
Depth to Bottom (TOC) Reported (historical/log): Measured: 19.99 Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer): 8	Depth to Water (TOC): Depth to NAPL (TOC): NO D/LNAPL IAPL delineation/monitoring area or individual the of the delineation area (e.g., B6-066 NAPL DG GG meter, the Project Manager should be notified and presence of NAPL is already known and a
Depth to Bottom (TOC) Reported (historical/log): Measured: 19.99 Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer): Please Note: Please Note: If NAPL is identified in a piezon the piezometer may not be abandoned unless the	Depth to Water (TOC): Depth to NAPL (TOC): NO D/LNAPL IAPL delineation/monitoring area or individual the of the delineation area (e.g., B6-066 NAPL DG GG meter, the Project Manager should be notified and presence of NAPL is already known and a
Depth to Bottom (TOC) Reported (historical/log): Measured: 19.99 Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer): Please Note: If NAPL is identified in a piezometer the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m	Depth to Water (TOC): Depth to NAPL (TOC): NO D/MAP IAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL DG GG meter, the Project Manager should be notified and presence of NAPL is already known and a
Depth to Bottom (TOC) Reported (historical/log): Measured: 19.99 Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer): Please Note: If NAPL is identified in a piezometer the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m	Depth to Water (TOC): Depth to NAPL (TOC): NO D/MAP IAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL DG GG meter, the Project Manager should be notified and presence of NAPL is already known and a
Depth to Bottom (TOC) Reported (historical/log): Measured: 19.99 Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer): Please Note: If NAPL is identified in a piezometer the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m	Depth to Water (TOC): Depth to NAPL (TOC): NO D/MAP IAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL DG GG meter, the Project Manager should be notified and presence of NAPL is already known and a
Depth to Bottom (TOC) Reported (historical/log): Measured: 19.99 Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer): Please Note: Please Note: If NAPL is identified in a piezon the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m Additional Comments (if any):	Depth to Water (TOC): Depth to NAPL (TOC): NO D/MAP IAPL delineation/monitoring area or individual the of the delineation area (e.g., B6-066 NAPL DG GG meter, the Project Manager should be notified and presence of NAPL is already known and a
Depth to Bottom (TOC) Reported (historical/log): Measured: 19.99 Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer): Please Note: Please Note: If NAPL is identified in a piezon the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m Additional Comments (if any):	Depth to Water (TOC): Depth to NAPL (TOC): NO D/MAPL IAPL delineation/monitoring area or individual the of the delineation area (e.g., B6-066 NAPL DG GG meter, the Project Manager should be notified and presence of NAPL is already known and a onitoring network. Oup LLC nd Scientists
Depth to Bottom (TOC) Reported (historical/log): Measured: 19.99 Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer): Please Note: If NAPL is identified in a piezom the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m Additional Comments (if any): ARM Gr Engineers a 9175 Guilford H	Depth to Water (TOC): Depth to NAPL (TOC): NO D/LNAPL IAPL delineation/monitoring area or individual the of the delineation area (e.g., B6-066 NAPL DG GG meter, the Project Manager should be notified and presence of NAPL is already known and a onitoring network.

Well/Piezometer ID: B6-066NN-PZ

General Project Information:

Client: EAG

Site Location: Sparrows Point, MD

Parcel ID: B6

Abandonment Date: 8/10/18

Abandonment Contractor:

Abandonment Method (circle appropriate):

1. PVC \rightarrow Pulled / Split / Perforated / Left-In-Place

2. Abandoned \rightarrow Grout / Bentonite Chips

Field Equipment:

ARM Representative(s): Lisa Perrin

Well Diameter: <u>1</u>"

Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:
Reported (historical/log):	Depth to Water (TOC): Not Measured
Measured: Not Measured	Depth to NAPL (TOC): Not Measured

Please note if this abandonment is for a known NAPL delineation/monitoring area or individual NAPL screening piezometer and identify the name of the delineation area (e.g., B6-066 NAPL Area or B5-144 Screening Piezometer): <u>B6-066</u>

Please Note: If NAPL is identified in a piezometer, the Project Manager should be notified and the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.

Additional Comments (if any):

Transcribed from ARM field book records. Piezometer was found destroyed and was not abandoned.



ARM Group Inc.

Well/Piezometer Abandonment Form	
Well/Piezometer ID: B6-066N-PZ	
General Project Information:	
Client: EAG	
Site Location: Sparrows Point, MD	
Abandonment Date: 5/3/2/	
d 💽 / Left-In-Place 🔘	
s O	
2DT Growt pump	
ARM Representative(s): L. Perrin Well Diameter (inches): 11	
Final Gauging Prior to Abandonment:	
Depth to Water (TOC): 7.92	
Depth to NAPL (TOC): trace LNAPL	
APL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL 36 -066	
Area or B5-144 Screening Piezometer): <u>B6-066</u> <u>Please Note:</u> If NAPL is identified in a piezometer, the Project Manager should be notified and the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.	
Additional Comments (if any):	
oup LLC	
oup LLC nd Scientists	
oup LLC	

Well/Piezometer Abandonment Form	
Well/Piezometer ID: B6-\$66	-000-pz
General Project Information:	
Client: EAG	3
Site Location: Sparrows Point, MD	
Parcel ID: BG	
Abandonment Date: 5(3121	
Abandonment Contractor: GST	
Abandonment Method (check appropriate):	
1. PVC \rightarrow Pulled \bigcirc \angle Split \bigcirc / Perforate	d 🌮 / Left-In-Place 🔿
2. Abandoned \rightarrow Grout \bigcirc 7 Bentonite Chip	s O
Field Equipment: Geoprobe 7822	DT, Grout pump
ARM Representative(s): Liperrim	
Well Diameter (inches):	_
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:
Reported (historical/log):	Depth to Water (TOC): 4,94
Measured:	Depth to NAPL (TOC): NO D/LINAPL
Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer):	
NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer):	the of the delineation area (e.g., B6-066 NAPL 66 - 066 meter, the Project Manager should be notified and presence of NAPL is already known and a
NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer): Please Note: If NAPL is identified in a piezo the piezometer may not be abandoned unless the	the of the delineation area (e.g., B6-066 NAPL 66 - 066 meter, the Project Manager should be notified and presence of NAPL is already known and a
NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer): Please Note: If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m	the of the delineation area (e.g., B6-066 NAPL 66 - 066 meter, the Project Manager should be notified and presence of NAPL is already known and a
NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer): Please Note: If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m	the of the delineation area (e.g., B6-066 NAPL 66 - 066 meter, the Project Manager should be notified and presence of NAPL is already known and a
NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer): Please Note: If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m	the of the delineation area (e.g., B6-066 NAPL 66 - 066 meter, the Project Manager should be notified and presence of NAPL is already known and a
NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer): Please Note: If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m Additional Comments (if any):	the of the delineation area (e.g., B6-066 NAPL 66 - 066 meter, the Project Manager should be notified and presence of NAPL is already known and a
NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer): Please Note:If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m Additional Comments (if any): ARM Gr Engineers a	oup LLC nd Scientists
NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer): Please Note:If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m Additional Comments (if any): ARM Gr Engineers a 9175 Guilford H	ne of the delineation area (e.g., B6-066 NAPL bb - 066 meter, the Project Manager should be notified and presence of NAPL is already known and a onitoring network.

Well/Piezometer ID: B6-066OO-PZ

General Project Information:

Client: TPA

Site Location: Sparrows Point, MD

Parcel ID: B6

Abandonment Date: 4/14/21

Abandonment Contractor:

Abandonment Method (circle appropriate):

1. PVC \rightarrow Pulled / Split / Perforated / Left-In-Place

2. Abandoned \rightarrow Grout / Bentonite Chips

Field Equipment:

ARM Representative(s): Lisa Perrin

Well Diameter: <u>1</u>"

Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:
Reported (historical/log):	Depth to Water (TOC): Not Measured
Measured: Not Measured	Depth to NAPL (TOC): Not Measured

Please note if this abandonment is for a known NAPL delineation/monitoring area or individual NAPL screening piezometer and identify the name of the delineation area (e.g., B6-066 NAPL Area or B5-144 Screening Piezometer): <u>B6-066</u>

Please Note: If NAPL is identified in a piezometer, the Project Manager should be notified and the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.

Additional Comments (if any):

Transcribed from ARM field book records. Piezometer was found destroyed and was not abandoned.



ARM Group Inc.

Well/Piezometer Abandonment Form		
Well/Piezometer ID: B6-0660-PZ		
General Project Information:		
Client: EAG		
Site Location: Sparrows Point, MD		
Parcel ID: B6		
Abandonment Date: 5(3/2-1		
Abandonment Contractor: 6SI		
Abandonment Method (check appropriate):		
1. PVC \rightarrow Pulled \bigcirc / Split \bigcirc / Perforate	d 💓 / Left-In-Place 🔿	
2. Abandoned \rightarrow Grout \checkmark -Bentonite Chip	os Ó	
Field Equipment: Geoprobe 7,822DT, Grout pump		
ARM Representative(s): L - Perrun		
Well Diameter (inches):	_	
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:	
Reported (historical/log):	Depth to Water (TOC):	
Measured: NA	Depth to NAPL (TOC): NA	
Please note if this abandonment is for a known NAPL delineation/monitoring area or individual NAPL screening piezometer and identify the name of the delineation area (e.g., B6-066 NAPL Area or B5-144 Screening Piezometer): $B_{6} - O_{6} G_{6}$		
<u>Please Note:</u> If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m		
Additional Comments (if any): A Broken few whees above sufface		
Additional Comments (if any): A Broken few indres above surface Coulout Jauge		
	oup LLC	
Engineers and Scientists		
9175 Guilford I	nd Scientists Road - Suite 310 aryland 21046	

Well/Piezometer Abandonment Form		
Well/Piezometer ID: B6-0	66PPP-P2	
General Project Information:		
Client: EAG		
Site Location: Sparrows Point, MD		
Parcel ID: B6		
Abandonment Date: $1/29/17$		
Abandonment Contractor: Mied		
Abandonment Method (circle appropriate):		
1. PVC - Pulled / Split / Perforated / Left-Ir	n-Place	
2. Abandoned – Grout/Bentonite Chips		
Field Equipment: Geoprobe Grout m	nadhive 3% Bent.	
ARM Representative(s): L. Perrin		
Well Diameter:)		
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:	
Reported (historical/log):	Depth to Water (TOC): 7,10	
Measured: 17.06	Depth to NAPL (TOC): NO DNAP/LNAP	
Please note if this abandonment is for a known NAPL delineation/monitoring area or individual NAPL screening piezometer and identify the name of the delineation area (e.g., B6-066 NAPL Area or B5-144 Screening Piezometer): $36 - 046 $		
Please Note: If NAPL is identified in a piezometer, the Project Manager should be notified and the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.		
Additional Comments (if any):		
ARM Gr	oup Inc.	
Earth Resource Engineers and Consultants9175 Guilford Road - Suite 310Columbia, Maryland 21046(410) 290-7775FAX: (410) 290-7775		

Well/Piezometer ID: B6-066PP-PZ

General Project Information:

Client: TPA

Site Location: Sparrows Point, MD

Parcel ID: B6

Abandonment Date: 4/14/21

Abandonment Contractor:

Abandonment Method (circle appropriate):

1. PVC \rightarrow Pulled / Split / Perforated / Left-In-Place

2. Abandoned \rightarrow Grout / Bentonite Chips

Field Equipment:

ARM Representative(s): Lisa Perrin

Well Diameter: <u>1"</u>

Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:
Reported (historical/log):	Depth to Water (TOC): Not Measured
Measured: Not Measured	Depth to NAPL (TOC): Not Measured

Please note if this abandonment is for a known NAPL delineation/monitoring area or individual NAPL screening piezometer and identify the name of the delineation area (e.g., B6-066 NAPL Area or B5-144 Screening Piezometer): <u>B6-066</u>

Please Note: If NAPL is identified in a piezometer, the Project Manager should be notified and the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.

Additional Comments (if any):

Transcribed from ARM field book records. Piezometer was found destroyed and was not abandoned.



ARM Group Inc.

Well/Piezometer Abandonment Form	
Well/Piezometer ID: B6-06	69-92
General Project Information:	
Client: EAG	
Site Location: Sparrows Point, MD	
Parcel ID: Bb	
Abandonment Date: 51321	
Abandonment Contractor: 655	
Abandonment Method (check appropriate):	- / -
1. PVC \rightarrow Pulled \bigotimes / Split \bigcirc / Perforated \bigotimes / Left-In-Place \bigcirc	
2. Abandoned \rightarrow Grout \bigcirc Bentonite Chi	
Field Equipment: Geoprobe 7822	DT Front princip
ARM Representative(s): L. Perriv	
Well Diameter (inches):	
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:
Descented (historical/loc)	Depth to Water (10)(1):
Reported (historical/log):	Depth to Water (TOC): 9.16
Measured: 19.62	Depth to NAPL (TOC): Trace LNAP 2
Measured: 9.62 Please note if this abandonment is for a known N NAPL screening piezometer and identify the name	JAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL
Measured: Please note if this abandonment is for a known NAPL screening piezometer and identify the name Area or B5-144 Screening Piezometer):	Depth to NAPL (TOC): Trace UMAP Z NAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL Obe meter, the Project Manager should be notified and presence of NAPL is already known and a
Measured: Please note if this abandonment is for a known N NAPL screening piezometer and identify the name Area or B5-144 Screening Piezometer): <u>B6</u> <u>Please Note:</u> If NAPL is identified in a piezon the piezometer may not be abandoned unless the	Depth to NAPL (TOC): Trace UMAP 2 NAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL 066 meter, the Project Manager should be notified and presence of NAPL is already known and a
Measured: 9.62 Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer): <u>B6</u> <u>Please Note:</u> If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m	Depth to NAPL (TOC): Trace UMAP Z NAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL Obe meter, the Project Manager should be notified and presence of NAPL is already known and a
Measured: 9.62 Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer): <u>B6</u> <u>Please Note:</u> If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m	Depth to NAPL (TOC): Trace UMAP Z NAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL Obe meter, the Project Manager should be notified and presence of NAPL is already known and a
Measured: 19.62 Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer): <u>B6</u> <u>Please Note:</u> If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m Additional Comments (if any):	9.16 Depth to NAPL (TOC): Trace UMAP 2 NAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL 066 meter, the Project Manager should be notified and presence of NAPL is already known and a conitoring network.
Measured: 19.62 Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer): <u>B6</u> <u>Please Note:</u> If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m Additional Comments (if any): <u>ARM G</u>	9.16 Depth to NAPL (TOC): Trace UMAP 2 NAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL Oble meter, the Project Manager should be notified and presence of NAPL is already known and a nonitoring network.
Measured: 19.62 Please note if this abandonment is for a known N NAPL screening piezometer and identify the nar Area or B5-144 Screening Piezometer): <u>B6</u> <u>Please Note:</u> If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m Additional Comments (if any): <u>ARM G</u> Engineers a 9175 Guilford	9.16 Depth to NAPL (TOC): HAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL 0.66 meter, the Project Manager should be notified and presence of NAPL is already known and a nonitoring network.
Measured: 19.62 Please note if this abandonment is for a known M NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer): <u>\$60</u> <u>Please Note:</u> If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m Additional Comments (if any): <u>ARM GE</u> Engineers a 9175 Guilford Columbia, M	YAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL Oble meter, the Project Manager should be notified and presence of NAPL is already known and a conitoring network.

Well/Piezometer Abandonment Form		
Well/Piezometer ID: B6-066 - PZ		
General Project Information:		
Client: EAG		
Site Location: Sparrows Point, MD		
Parcel ID: Ble		
Abandonment Date: 5(3(2)		
Abandonment Contractor:		
Abandonment Method (check appropriate): 1. $PVC \rightarrow Pulled \bigcirc / Split \bigcirc / Perforated \bigcirc / Left-In-Place \bigcirc @ Did uot$ 2. Abandoned \rightarrow Grout $\bigcirc / Bentonite Chips \bigcirc$		
Field Equipment: NA		
ARM Representative(s): L Pernin		
Well Diameter (inches):		
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:	
Reported (historical/log):	Depth to Water (TOC):	
Measured: NA	NF	
Please note if this abandonment is for a known NAPL delineation/monitoring area or individual NAPL screening piezometer and identify the name of the delineation area (e.g., B6-066 NAPL Area or B5-144 Screening Piezometer): $Bb - 0b$ Please Note: If NAPL is identified in a piezometer, the Project Manager should be notified and		
the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.		
Additional Comments (if any): Lowld not locate -> destroyed		
ARM Gr	oup LLC	
	nd Scientists	
	Road - Suite 310 arvland 21046	
Columbia, Maryland 21046 (410) 290-7775 FAX: (410) 290-7775		

Well/Piezometer Abandonment Form		
Well/Piezometer ID: B6-066Q-P2		
General Project Information:		
Client: EAG		
Site Location: Sparrows Point, MD		
Parcel ID: B6		
Abandonment Date: 5 (3/2/		
Abandonment Contractor: 65.7		
Abandonment Method (check appropriate):		
1. PVC \rightarrow Pulled \bigcirc / Split \bigcirc / Perforated	d Left-In-Place	
2. Abandoned \rightarrow Grout \mathcal{O} Bentonite Chip	s O ′	
Field Equipment: Growt owno)	
Field Equipment: Growt pump ARM Representative(s): L. Perrin		
Well Diameter (inches):	_	
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:	
Reported (historical/log):	Depth to Water (TOC): NA-	
Measured: NA	Depth to NAPL (TOC): NR	
Please note if this abandonment is for a known NAPL delineation/monitoring area or individual NAPL screening piezometer and identify the name of the delineation area (e.g., B6-066 NAPL Area or B5-144 Screening Piezometer): $B_6 - \delta (\varrho \phi)$		
<u>Please Note:</u> If NAPL is identified in a piezometer, the Project Manager should be notified and the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.		
Additional Comments (if any): A Broken at surface -> could ht remove pre, could not gauge		
ARM Group LLCEngineers and Scientists9175 Guilford Road - Suite 310Columbia, Maryland 21046(410) 290-7775FAX: (410) 290-7775		

Well/Piezometer Abandonment Form		
Well/Piezometer ID: B6-066QQ-PZ		
General Project Information:		
Client: EAG		
Site Location: Sparrows Point, MD		
Parcel ID: B6		
Abandonment Date: 51321		
Abandonment Contractor:		
Abandonment Method (check appropriate): 1. PVC \rightarrow Pulled \bigcirc / Split \bigcirc / Perforated \bigcirc / Left-In-Place \bigcirc abandon		
1. PVC \rightarrow Pulled \bigcirc / Split \bigcirc / Perforated	d K / Left-In-Place O abaudon	
2. Abandoned \rightarrow Grout \bigcirc / Bentonite Chips \bigcirc		
Field Equipment: NA		
ARM Representative(s): L. Perrin		
Well Diameter (inches):		
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:	
Reported (historical/log):	Depth to Water (TOC): NA	
Measured: NA	Depth to NAPL (TOC): NA	
Please note if this abandonment is for a known NAPL delineation/monitoring area or individual NAPL screening piezometer and identify the name of the delineation area (e.g., B6-066 NAPL Area or B5-144 Screening Piezometer): $Bb - 0bb$		
<u>Please Note:</u> If NAPL is identified in a piezometer, the Project Manager should be notified and the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.		
Additional Comments (if any): CONID NOT (OCUSE) de Stroyeel		
ARM Group LLCEngineers and Scientists9175 Guilford Road - Suite 310Columbia, Maryland 21046(410) 290-7775FAX: (410) 290-7775		

Well/Piezometer ID: B6-066QQQ-PZ

General Project Information:

Client: EAG

Site Location: Sparrows Point, MD

Parcel ID: B6

Abandonment Date: 12/14/18

Abandonment Contractor:

Abandonment Method (circle appropriate):

1. PVC \rightarrow Pulled / Split / Perforated / Left-In-Place

2. Abandoned \rightarrow Grout / Bentonite Chips

Field Equipment:

ARM Representative(s): Lisa Perrin

Well Diameter: <u>1"</u>

Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:
Reported (historical/log):	Depth to Water (TOC): Not Measured
Measured: Not Measured	Depth to NAPL (TOC): Not Measured

Please note if this abandonment is for a known NAPL delineation/monitoring area or individual NAPL screening piezometer and identify the name of the delineation area (e.g., B6-066 NAPL Area or B5-144 Screening Piezometer): <u>B6-066</u>

Please Note: If NAPL is identified in a piezometer, the Project Manager should be notified and the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.

Additional Comments (if any):

Transcribed from ARM field book records. Piezometer was found destroyed and was not abandoned.



ARM Group Inc.

Well/Piezometer ID: B6-066R-PZ

General Project Information:

Client: TPA

Site Location: Sparrows Point, MD

Parcel ID: B6

Abandonment Date: 1/12/21

Abandonment Contractor:

Abandonment Method (circle appropriate):

1. PVC \rightarrow Pulled / Split / Perforated / Left-In-Place

2. Abandoned \rightarrow Grout / Bentonite Chips

Field Equipment:

ARM Representative(s): Lisa Perrin

Well Diameter: <u>1</u>"

Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:
Reported (historical/log):	Depth to Water (TOC): Not Measured
Measured: Not Measured	Depth to NAPL (TOC): Not Measured

Please note if this abandonment is for a known NAPL delineation/monitoring area or individual NAPL screening piezometer and identify the name of the delineation area (e.g., B6-066 NAPL Area or B5-144 Screening Piezometer): <u>B6-066</u>

Please Note: If NAPL is identified in a piezometer, the Project Manager should be notified and the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.

Additional Comments (if any):

Transcribed from ARM field book records. Piezometer was found destroyed and was not abandoned.



ARM Group Inc.

Well/Piezometer Abandonment Form		
Well/Piezometer ID: B6-066 RR-PZ		
General Project Information:		
Client: EAG		
Site Location: Sparrows Point, MD		
Parcel ID: Ble		
Abandonment Date: 513121		
Abandonment Contractor: 651		
Abandonment Method (check appropriate):		
1. PVC \rightarrow Pulled \bigcirc / Split \bigcirc / Perforated \bigcirc / Left-In-Place \bigcirc		
2. Abandoned \rightarrow Grout \bigcirc /Bentonite Chips \bigcirc		
	20T, Grout pump	
ARM Representative(s): L. Penn		
Well Diameter (inches):		
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:	
Reported (historical/log):	Depth to Water (TOC): 11.23	
Measured: 19,44	Depth to NAPL (TOC): NO DLNAPL	
Please note if this abandonment is for a known NAPL delineation/monitoring area or individual NAPL screening piezometer and identify the name of the delineation area (e.g., B6-066 NAPL Area or B5-144 Screening Piezometer): $Bb = 0.06$ Please Note: If NAPL is identified in a piezometer, the Project Manager should be notified and the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.		
Additional Comments (if any):		
ARM Group LLC Engineers and Scientists 9175 Guilford Road - Suite 310 Columbia, Maryland 21046 (410) 290-7775 FAX: (410) 290-7775		

Well/Piezometer Abandonment Form		
Well/Piezometer ID: B6 -	Well/Piezometer ID: B6 - 066 RRR - P2	
General Project Information:		
Client: EAG		
Site Location: Sparrows Point, MD		
Parcel ID: Ble		
Abandonment Date: 11/29/17		
Abandonment Contractor: Allied		
Abandonment Method (circle appropriate):		
1. PVC \rightarrow Pulled / Split / Perforated / Left-In	n-Place	
2. Abandoned \rightarrow Grout / Bentonite Chips		
Field Equipment: Geopribe / Grout machine 95% Portland 50 Bent.		
ARM Representative(s): L, Pervin		
Well Diameter:		
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:	
Reported (historical/log):	Depth to Water (TOC): 8.03	
Measured: 16172	Depth to NAPL (TOC): NO DNAP / LUAP L	
Please note if this abandonment is for a known NAPL delineation/monitoring area or individual NAPL screening piezometer and identify the name of the delineation area (e.g., B6-066 NAPL Area or B5-144 Screening Piezometer): $\boxed{B_0 - 0 \ b \ \varphi} \ N \not A P \ \Box$		
Please Note: If NAPL is identified in a piezometer, the Project Manager should be notified and the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.		
Additional Comments (if any):		
Earth Resource Engin	roup Inc. neers and Consultants Road - Suite 310	
Columbia, Maryland 21046 (410) 290-7775 FAX: (410) 290-7775		

Well/Piezometer Abandonment Form			
Well/Piezometer ID: B6-0668-82			
General Project Information:			
Client: EAG			
Site Location: Sparrows Point, MD			
Parcel ID: Polo			
Abandonment Date: 5(3)21			
Abandonment Contractor:			
Abandonment Method (check appropriate): 1. PVC \rightarrow Pulled \bigcirc / Split \bigcirc / Perforated \bigcirc / Left-In-Place \bigcirc Abandon 2. Abandoned \rightarrow Grout \bigcirc / Bentonite Chips \bigcirc			
Field Equipment: NA			
ARM Representative(s): L. Perrin			
Well Diameter (inches):	_		
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:		
Reported (historical/log):	Depth to Water (TOC): NA		
Measured: NA	Depth to NAPL (TOC):		
Please note if this abandonment is for a known NAPL delineation/monitoring area or individual NAPL screening piezometer and identify the name of the delineation area (e.g., B6-066 NAPL Area or B5-144 Screening Piezometer):			
Please Note: If NAPL is identified in a piezometer, the Project Manager should be notified and the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.			
Additional Comments (if any):	Additional Comments (if any):		
Could not l	scole -> destroyed		
ARM Gr	oup LLC		
	nd Scientists Road - Suite 310		
	aryland 21046		
(410) 290-7775 FAX: (410) 290-7775			

Well/Piezometer Abandonment Form		
Well/Piezometer ID: B6-06655-PZ		
General Project Information:		
Client: EAG		
Site Location: Sparrows Point, MD		
Parcel ID: B6		
Abandonment Date: 513121		
Abandonment Contractor:		
Abandonment Method (check appropriate): 1. PVC → Pulled O / Split O / Perforated O / Left-In-Place O Did viot 2. Abandoned → Grout O / Bentonite Chips O		
Field Equipment: NA		
ARM Representative(s): L Perrin		
Well Diameter (inches):		
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:	
Reported (historical/log):	Depth to Water (TOC): NA	
Measured: NA	Depth to NAPL (TOC):	
Please note if this abandonment is for a known NAPL delineation/monitoring area or individual NAPL screening piezometer and identify the name of the delineation area (e.g., B6-066 NAPL Area or B5-144 Screening Piezometer): $B = 0.066$		
Please Note: If NAPL is identified in a piezometer, the Project Manager should be notified and the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.		
Additional Comments (if any):		
Could not 1	o coste > destroyed	
ARM Group LLCEngineers and Scientists9175 Guilford Road - Suite 310Columbia, Maryland 21046(410) 290-7775FAX: (410) 290-7775		

Well/Piezometer Abandonment Form		
Well/Piezometer ID: B6-D66T-PZ		
General Project Information:		
Client: EAG		
Site Location: Sparrows Point, MD		
Parcel ID: Ble		
Abandonment Date: 51312-1		
Abandonment Contractor: 65T		
Abandonment Method (check appropriate):		
1. PVC \rightarrow Pulled \bigotimes / Split \bigcirc / Perforated \bigodot / Left-In-Place \bigcirc		
2. Abandoned \rightarrow Grout / Bentonite Chip		
Field Equipment: Geograde 282	2DT, Grout pund	
Field Equipment: Geoprobe 282 ARM Representative(s): L. Perm		
Well Diameter (inches):(``		
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:	
Reported (historical/log):	Depth to Water (TOC): 9,99	
Measured: 7,24	Depth to NAPL (TOC): NO DIZNAPL	
Please note if this abandonment is for a known NAPL delineation/monitoring area or individual NAPL screening piezometer and identify the name of the delineation area (e.g., B6-066 NAPL Area or B5-144 Screening Piezometer): $B_0 = 0.66$		
<u>Please Note:</u> If NAPL is identified in a piezometer, the Project Manager should be notified and the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.		
Additional Comments (if any):		
ARM G	oup LLC	
	nd Scientists	
9175 Guilford Road - Suite 310 Columbia, Maryland 21046		
(410) 290-7775 FAX: (410) 290-7775		

Well/Piezometer Abandonment Form		
Well/Piezometer ID: B6-060	oTT-P2	
General Project Information:		
Client: EAG	10	
Site Location: Sparrows Point, MD		
Parcel ID: Ble		
Abandonment Date: 5(3)21		
Abandonment Contractor: 657		
Abandonment Method (check appropriate):		
1. PVC \rightarrow Pulled Split O / Perforated H / Left-In-Place O		
2. Abandoned \rightarrow Grout O + Bentonite Chip		
Field Equipment: Geoprobe 782-	20T, Grout pump	
ARM Representative(s): L. Perru	•	
Well Diameter (inches):		
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:	
	Depth to Water (TOC):	
Depth to Bottom (TOC)	Depth to Weter (TOC):	
Depth to Bottom (TOC) Reported (historical/log):	Depth to Water (TOC): Depth to NAPL (TOC): NDD/LNAPL VAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL	
Depth to Bottom (TOC) Reported (historical/log): Measured: 19.87 Please note if this abandonment is for a known N NAPL screening piezometer and identify the nar Area or B5-144 Screening Piezometer): BL	Depth to Water (TOC): Depth to NAPL (TOC): No $D/LNAPL$ VAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL $o - 0 (e^{-1})$ meter, the Project Manager should be notified and presence of NAPL is already known and a	
Depth to Bottom (TOC) Reported (historical/log): Measured: 19.87 Please note if this abandonment is for a known N NAPL screening piezometer and identify the nar Area or B5-144 Screening Piezometer): B Please Note: If NAPL is identified in a piezo the piezometer may not be abandoned unless the	Depth to Water (TOC): Depth to NAPL (TOC): No $D/LNAPL$ VAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL $o - 0 (e^{-1})$ meter, the Project Manager should be notified and presence of NAPL is already known and a	
Depth to Bottom (TOC) Reported (historical/log): Measured: 19.87 Please note if this abandonment is for a known N NAPL screening piezometer and identify the nar Area or B5-144 Screening Piezometer): BL Please Note: If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m	Depth to Water (TOC): Depth to NAPL (TOC): No $D/LNAPL$ VAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL $o - 0 (e^{-1})$ meter, the Project Manager should be notified and presence of NAPL is already known and a	
Depth to Bottom (TOC) Reported (historical/log): Measured: 19.87 Please note if this abandonment is for a known N NAPL screening piezometer and identify the nar Area or B5-144 Screening Piezometer): BL Please Note: If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m	Depth to Water (TOC): Depth to NAPL (TOC): No $D/LNAPL$ VAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL $o - 0 (e^{-1})$ meter, the Project Manager should be notified and presence of NAPL is already known and a	
Depth to Bottom (TOC) Reported (historical/log): Measured: 19.87 Please note if this abandonment is for a known N NAPL screening piezometer and identify the nar Area or B5-144 Screening Piezometer): BL Please Note: If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m Additional Comments (if any):	Depth to Water (TOC): Depth to NAPL (TOC): No D/LNAPL NAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL o - 0 (e C) meter, the Project Manager should be notified and presence of NAPL is already known and a nonitoring network.	
Depth to Bottom (TOC) Reported (historical/log): Measured: IG.B7 Please note if this abandonment is for a known N NAPL screening piezometer and identify the nar Area or B5-144 Screening Piezometer): BL Please Note: If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m Additional Comments (if any):	Depth to Water (TOC): Depth to NAPL (TOC): No D/LNAPL VAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL o - 0 (e C) meter, the Project Manager should be notified and presence of NAPL is already known and a nonitoring network.	
Depth to Bottom (TOC) Reported (historical/log): Measured: IG.B7 Please note if this abandonment is for a known N NAPL screening piezometer and identify the nar Area or B5-144 Screening Piezometer): BV Please Note: If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m Additional Comments (if any): ARM Green Stress and Stres	Depth to Water (TOC): Depth to NAPL (TOC): No D/LNAPL NAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL o - 0 (e C) meter, the Project Manager should be notified and presence of NAPL is already known and a nonitoring network.	

Well/Piezometer Abandonment Form			
Well/Piezometer ID: B6-0664-PZ			
General Project Information:			
Client: EAG			
Site Location: Sparrows Point, MD			
Parcel ID: Bb			
Abandonment Date: 513121			
Abandonment Contractor:			
Abandonment Method (check appropriate): 1. PVC → Pulled O / Split O / Perforated O / Left-In-Place O Houdon			
2. Abandoned \rightarrow Grout \bigcirc / Bentonite Chip	<u>s</u> O		
Field Equipment:			
ARM Representative(s): L Perrin			
Well Diameter (inches):			
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:		
Reported (historical/log):	Depth to Water (TOC):		
Measured:	Depth to NAPL (TOC):		
Please note if this abandonment is for a known NAPL delineation/monitoring area or individual NAPL screening piezometer and identify the name of the delineation area (e.g., B6-066 NAPL Area or B5-144 Screening Piezometer): <u>B6-644</u>			
<u>Please Note:</u> If NAPL is identified in a piezometer, the Project Manager should be notified and the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.			
Additional Comments (if any):			
Could not Lo	Could not locate -> destroyed		
ARM Group LLCEngineers and Scientists9175 Guilford Road - Suite 310Columbia, Maryland 21046(410) 290-7775FAX: (410) 290-7775			

Well/Piezometer Abandonment Form		
Well/Piezometer ID: B6-066	UU-PZ	
General Project Information:		
Client: EAG		
Site Location: Sparrows Point, MD		
Parcel ID: Ble		
Abandonment Date: 51321		
Abandonment Contractor: 6 ST		
Abandonment Method (check appropriate):		
1. PVC \rightarrow Pulled S / Split O / Perforated / Left-In-Place O		
2. Abandoned \rightarrow Grout \bigcirc +Bentonite Chips \bigcirc		
Field Equipment: Beoprobe 782	2DT, Grout prunp	
ARM Representative(s): L. Perrin		
Well Diameter (inches):		
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:	
Reported (historical/log):	Depth to Water (TOC): 10, 46	
Measured: 16,73	Depth to NAPL (TOC): NO D/LNAPL	
Please note if this abandonment is for a known NAPL delineation/monitoring area or individual NAPL screening piezometer and identify the name of the delineation area (e.g., B6-066 NAPL Area or B5-144 Screening Piezometer): $36-066$		
<u>Please Note:</u> If NAPL is identified in a piezometer, the Project Manager should be notified and the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.		
Additional Comments (if any):		
ARM Gr	oup LLC	
	nd Scientists	
9175 Guilford I		

Well/Piezometer Abandonment Form		
Well/Piezometer ID: B6-066VV -P2		
General Project Information:		
Client: EAG		
Site Location: Sparrows Point, MD		
Parcel ID: 34		
Abandonment Date: 5/3/2/		
Abandonment Contractor:		
Abandonment Method (check appropriate): 1. PVC → Pulled O / Split O / Perforated / Left-In-Place O abandon		
1. PVC \rightarrow Pulled \bigcirc / Split \bigcirc / Perforate	d / Left-In-Place O abandon	
2. Abandoned \rightarrow Grout \bigcirc / Bentonite Chip		
Field Equipment: NA		
Field Equipment:NAARM Representative(s):L Perrin		
Well Diameter (inches):		
Depth to Bottom (TOC) Final Gauging Prior to Abandonment:		
Перти то вощош (10С)		
Reported (historical/log):	Depth to Water (TOC): NA-	
Reported (historical/log):	Depth to Water (TOC): Depth to NAPL (TOC): NA APL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL	
Reported (historical/log): Measured: Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer):	Depth to Water (TOC): Depth to NAPL (TOC): NAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL $bb \sim 0 \ le \ b$ meter, the Project Manager should be notified and presence of NAPL is already known and a	
Reported (historical/log): Measured: NAP Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer): Please Note: If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m	Depth to Water (TOC): NA^{-} Depth to NAPL (TOC): NA^{-} JAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL $S_{0} \sim 0 \ le \ b$ meter, the Project Manager should be notified and presence of NAPL is already known and a conitoring network.	
Reported (historical/log): Measured: NAP Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer): Please Note: If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m	Depth to Water (TOC): Depth to NAPL (TOC): NAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL $bb \sim 0 \ le \ b$ meter, the Project Manager should be notified and presence of NAPL is already known and a	
Reported (historical/log): Measured: NAP Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer): Please Note: If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m	Depth to Water (TOC): NA^{-} Depth to NAPL (TOC): NA^{-} JAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL $S_{0} \sim 0 \ le \ b$ meter, the Project Manager should be notified and presence of NAPL is already known and a conitoring network.	
Reported (historical/log): Measured: NAP Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer): Please Note: If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m	Depth to Water (TOC): NA^{-} Depth to NAPL (TOC): NA^{-} JAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL $S_{0} \sim 0 \ le \ b$ meter, the Project Manager should be notified and presence of NAPL is already known and a conitoring network.	
Reported (historical/log): Measured: MA Please note if this abandonment is for a known N NAPL screening piezometer and identify the name Area or B5-144 Screening Piezometer): Reported (historical/log) Please Note: If NAPL is identified in a piezo Please Note: If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m Additional Comments (if any): Cound	Depth to Water (TOC): NA^{-} Depth to NAPL (TOC): NA^{-} JAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL $S_{0} \sim 0 \ le \ b$ meter, the Project Manager should be notified and presence of NAPL is already known and a conitoring network.	
Reported (historical/log): Measured: MA Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer): Reference Please Note: If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m Additional Comments (if any): Cound ARM Green Engineers and Comments and Comments (if any): Cound	Depth to Water (TOC): NA- Depth to NAPL (TOC): NA- NAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL Sob ~ 0 le 6 meter, the Project Manager should be notified and presence of NAPL is already known and a nonitoring network. NOT 1000000 - Destroyed roup LLC nd Scientists	
Reported (historical/log): Measured: MA Please note if this abandonment is for a known N NAPL screening piezometer and identify the name Area or B5-144 Screening Piezometer): Reference Please Note: If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m Additional Comments (if any): Cound ARM Green Stress 9175 Guilford	Depth to Water (TOC): NA- Depth to NAPL (TOC): NA- NAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL SUBSECTION OF CONTROL OF C	

Well/Piezometer Abandonment Form		
Well/Piezometer ID: B6-066W-P2		
General Project Information:		
Client: EAG		
Site Location: Sparrows Point, MD		
Parcel ID: Bb		
Abandonment Date: 53/21		
Abandonment Contractor:		
Abandonment Method (check appropriate): 1. PVC \rightarrow Pulled \bigcirc / Split \bigcirc / Perforated \bigcirc / Left-In-Place \bigcirc Abanelon		
2. Abandoned \rightarrow Grout \bigcirc / Bentonite Chip		
Field Equipment: NA		
ARM Representative(s): L. Purrín		
Well Diameter (inches):		
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:	
Reported (historical/log):	Depth to Water (TOC): NA	
Measured: NA	Depth to NAPL (TOC): NA	
Please note if this abandonment is for a known NAPL delineation/monitoring area or individual NAPL screening piezometer and identify the name of the delineation area (e.g., B6-066 NAPL Area or B5-144 Screening Piezometer): $B_{0} = O(0.6)$		
<u>Please Note:</u> If NAPL is identified in a piezometer, the Project Manager should be notified and the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.		
Additional Comments (if any):		
Could Not Locate -> destroyed		
ARM G	oup LLC	
Engineers a	nd Scientists	
	Road - Suite 310	
Columbia, Maryland 21046 (410) 290-7775 FAX: (410) 290-7775		

Well/Piezometer Abandonment Form		
Well/Piezometer ID: B6-066WW-pz		
General Project Information:		
Client: EAG		
Site Location: Sparrows Point, MD		
Parcel ID: Blo		
Abandonment Date: 5/3/2/		
Abandonment Contractor:		
Abandonment Method (check appropriate): 1. PVC → Pulled O / Split O / Perforated O / Left-In-Place O Woandon 2. Abandoned → Grout O / Bentonite Chips O		
Field Equipment: JA		
ARM Representative(s): L. Perrm		
Well Diameter (inches):		
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:	
Reported (historical/log):	Depth to Water (TOC): NA-	
Measured: NA	Depth to NAPL (TOC): NA	
Please note if this abandonment is for a known NAPL delineation/monitoring area or individual NAPL screening piezometer and identify the name of the delineation area (e.g., B6-066 NAPL Area or B5-144 Screening Piezometer): $Bb - obb$		
<u>Please Note:</u> If NAPL is identified in a piezometer, the Project Manager should be notified and the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.		
Additional Comments (if any):		
Couldnot locate > destroyed		
ARM Gr	oup LLC	
	nd Scientists	
	Road - Suite 310 arvland 21046	
Columbia, Maryland 21046 (410) 290-7775 FAX: (410) 290-7775		

Well/Piezometer Abandonment Form		
Well/Piezometer ID: B6-06	0X-PZ	
General Project Information:		
Client: EAG	······································	
Site Location: Sparrows Point, MD		
Parcel ID: B6		
Abandonment Date: 5(3)21		
Abandonment Contractor: 6 SP		
Abandonment Method (check appropriate):		
1. PVC \rightarrow Pulled \bigcirc / Split \bigcirc / Perforate	d 🌮 // Left-In-Place 🔿	
2. Abandoned \rightarrow Grout Bentonite Chip		
Field Equipment: Geoprobe 782	2DT, Grout pump	
ARM Representative(s): L. Pernin		
Well Diameter (inches):	_	
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:	
Reported (historical/log):	Depth to Water (TOC): 0.21	
Measured: 5.00	Depth to NAPL (TOC): NO DANARL	
10/10	NO DIWARC	
Please note if this abandonment is for a known N NAPL screening piezometer and identify the nar	APL delineation/monitoring area or individual	
Please note if this abandonment is for a known NNAPL screening piezometer and identify the nar Area or B5-144 Screening Piezometer):	VAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL 66 - 066) meter, the Project Manager should be notified and presence of NAPL is already known and a	
Please note if this abandonment is for a known NNAPL screening piezometer and identify the nar Area or B5-144 Screening Piezometer): Please Note: If NAPL is identified in a piezo the piezometer may not be abandoned unless the	VAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL 66 - 066) meter, the Project Manager should be notified and presence of NAPL is already known and a	
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Please note if this abandonment is for a known NNAPL screening piezometer and identify the nar Area or B5-144 Screening Piezometer): Please Note: If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m	VAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL 66 - 066) meter, the Project Manager should be notified and presence of NAPL is already known and a	
Please note if this abandonment is for a known NNAPL screening piezometer and identify the nar Area or B5-144 Screening Piezometer): Please Note: If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m	VAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL 66 - 066) meter, the Project Manager should be notified and presence of NAPL is already known and a	
Please note if this abandonment is for a known NNAPL screening piezometer and identify the nar Area or B5-144 Screening Piezometer): Please Note:If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m Additional Comments (if any):	VAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL 66 - 066) meter, the Project Manager should be notified and presence of NAPL is already known and a	
Please note if this abandonment is for a known N NAPL screening piezometer and identify the nar Area or B5-144 Screening Piezometer):	APL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL - O (a (a	
Please note if this abandonment is for a known N NAPL screening piezometer and identify the nar Area or B5-144 Screening Piezometer):R <u>Please Note:</u> If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m Additional Comments (if any): ARM Gr Engineers a 9175 Guilford	NAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL 56 - 066) meter, the Project Manager should be notified and presence of NAPL is already known and a conitoring network.	

Well/Piezometer Abandonment Form		
Well/Piezometer ID: B6-066 XK-92		
General Project Information:		
Client: EAG		
Site Location: Sparrows Point, MD		
Parcel ID: B6		
Abandonment Date: 513121		
Abandonment Contractor: 65I		
Abandonment Method (check appropriate):		
1. PVC \rightarrow Pulled S/Split O / Perforated // Left-In-Place O		
2. Abandoned \rightarrow Grout \bigotimes / Bentonite Chips \bigcirc		
Field Equipment: Geoprobe 782	2DT, Growt pump	
ARM Representative(s): L. ferri		
Well Diameter (inches):		
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:	
Reported (historical/log):	Depth to Water (TOC):	
	Depth to Water (TOC):	
Reported (historical/log):	Depth to Water (TOC): Depth to NAPL (TOC): Wace LNAPL IAPL delineation/monitoring area or individual the of the delineation area (e.g., B6-066 NAPL	
Reported (historical/log): Measured: 17.2_ Please note if this abandonment is for a known N NAPL screening piezometer and identify the name Area or B5-144 Screening Piezometer): B	Depth to Water (TOC): Depth to NAPL (TOC): Wace LNAPL IAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL 06 -066 meter, the Project Manager should be notified and presence of NAPL is already known and a	
Reported (historical/log): Measured: 17.2_ Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer): B Please Note: If NAPL is identified in a piezo the piezometer may not be abandoned unless the	Depth to Water (TOC): Depth to NAPL (TOC): Wace LNAPL IAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL 06 -066 meter, the Project Manager should be notified and presence of NAPL is already known and a	
Reported (historical/log): Measured: 17.2_ Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer):	Depth to Water (TOC): Depth to NAPL (TOC): Wace LNAPL IAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL 06 -066 meter, the Project Manager should be notified and presence of NAPL is already known and a	
Reported (historical/log): Measured: 17.2_ Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer):	Depth to Water (TOC): Depth to NAPL (TOC): Wace LNAPL IAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL 06 -066 meter, the Project Manager should be notified and presence of NAPL is already known and a	
Reported (historical/log): Measured: 17.2_ Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer):	Depth to Water (TOC): Depth to NAPL (TOC): Wace LNAPL IAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL 06 -066 meter, the Project Manager should be notified and presence of NAPL is already known and a	
Reported (historical/log): Measured: 17.2_ Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer): Please Note: If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m Additional Comments (if any):	Depth to Water (TOC): Depth to NAPL (TOC): Wace LNAPL IAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL 06 -066 meter, the Project Manager should be notified and presence of NAPL is already known and a	
Reported (historical/log): Measured: 17.2_ Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer):	Depth to Water (TOC): b .33 Depth to NAPL (TOC): Wace UNAPL IAPL delineation/monitoring area or individual ne of the delineation area (e.g., B6-066 NAPL b -066 meter, the Project Manager should be notified and presence of NAPL is already known and a onitoring network. Toup LLC nd Scientists	
Reported (historical/log): Measured: 17.2_ Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer):	Depth to Water (TOC): b.33 Depth to NAPL (TOC): Wace UNAPL IAPL delineation/monitoring area or individual the of the delineation area (e.g., B6-066 NAPL 06 -064 meter, the Project Manager should be notified and presence of NAPL is already known and a conitoring network.	

Well/Piezometer Abandonment Form		
Well/Piezometer ID: B6-0664-PZ		
General Project Information:		
Client: EAG		
Site Location: Sparrows Point, MD		
Parcel ID: Ble		
Abandonment Date: 5(3)21	·····	
Abandonment Contractor: 6 ST		
Abandonment Method (check appropriate): 1. PVC \rightarrow Pulled \bigcirc / Split \bigcirc / Perforated \bigcirc / Left-In-Place \bigcirc		
2. Abandoned \rightarrow Grout \bigcirc +Bentonite Chip		
Field Equipment: Geoprobe 7822	DT, Groust pump	
ARM Representative(s): L. Perriv		
Well Diameter (inches):		
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:	
Reported (historical/log):	Depth to Water (TOC): Q. G	
Measured: Bucked? 12.40	Depth to NAPL (TOC): NO D/LNAPL	
Please note if this abandonment is for a known NAPL delineation/monitoring area or individual NAPL screening piezometer and identify the name of the delineation area (e.g., B6-066 NAPL Area or B5-144 Screening Piezometer): $Bb - 0bb$		
Please Note: If NAPL is identified in a piezometer, the Project Manager should be notified and the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.		
Additional Comments (if any):		
Additional Comments (if any):		
	oup LLC	
ARM Gr Engineers a	oup LLC nd Scientists	
ARM Gr Engineers a 9175 Guilford I	oup LLC	

Well/Piezometer A	bandonment Form
Well/Piezometer ID: B6-066	BYY-PZ
General Project Information:	
Client: EAG	
Site Location: Sparrows Point, MD	
Parcel ID: B6	
Abandonment Date: 51321	
Abandonment Contractor:	
 Abandonment Method (check appropriate): 1. PVC → Pulled O / Split O / Perforated 2. Abandoned → Grout O / Bentonite Chip 	d Did not aloundon
Field Equipment: NA	
ARM Representative(s): C-Perrin	
Well Diameter (inches):	
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:
Reported (historical/log):	Depth to Water (TOC): NA
Measured:	Depth to NAPL (TOC):
Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer):	ne of the delineation area (e.g., B6-066 NAPL
<u>Please Note:</u> If NAPL is identified in a piezon the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m	
Additional Comments (if any):	I not lo cate & Destroyed
Engineers a 9175 Guilford I Columbia, M	roup LLC nd Scientists Road - Suite 310 aryland 21046 AX: (410) 290-7775

Well/Piezometer A	bandonment Form
Well/Piezometer ID: B6-060	02-92
General Project Information:	
Client: EAG	
Site Location: Sparrows Point, MD	
Parcel ID: Bb	
Abandonment Date: 5/3/2/	
Abandonment Contractor: 65I	
Abandonment Method (check appropriate):	
1. PVC \rightarrow Pulled \bigcirc (Split \bigcirc / Perforate	d 💋 / Left-In-Place 🔿
2. Abandoned \rightarrow Grout Bentonite Chip	
Field Equipment: Geoprobe 782	2DT, Grout pump
Field Equipment: Geoprobe 782 ARM Representative(s): L. Pernn	
Well Diameter (inches):	_
Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:
Reported (historical/log):	Depth to Water (TOC): 10.31
Measured: 17.88	Depth to NAPL (TOC): NO D/CMAPL
Please note if this abandonment is for a known N NAPL screening piezometer and identify the nam Area or B5-144 Screening Piezometer): Please Note: If NAPL is identified in a piezo the piezometer may not be abandoned unless the decision has been made to abandon the NAPL m	me of the delineation area (e.g., B6-066 NAPL $d_{a} - 0$ d_{a}) meter, the Project Manager should be notified and presence of NAPL is already known and a
Additional Comments (if any):	
Engineers a 9175 Guilford I Columbia, M	roup LLC nd Scientists Road - Suite 310 aryland 21046 AX: (410) 290-7775

Well/Piezometer ID: B6-066B-PZ

General Project Information:

Client: EAG

Site Location: Sparrows Point, MD

Parcel ID: B6

Abandonment Date: 5/24/17

Abandonment Contractor:

Abandonment Method (circle appropriate):

1. PVC \rightarrow Pulled / Split / Perforated / Left-In-Place

2. Abandoned \rightarrow Grout / Bentonite Chips

Field Equipment:

ARM Representative(s): Lisa Perrin

Well Diameter: <u>1"</u>

Depth to Bottom (TOC)	Final Gauging Prior to Abandonment:
Reported (historical/log):	Depth to Water (TOC): Not Measured
Measured: Not Measured	Depth to NAPL (TOC): Not Measured

Please note if this abandonment is for a known NAPL delineation/monitoring area or individual NAPL screening piezometer and identify the name of the delineation area (e.g., B6-066 NAPL Area or B5-144 Screening Piezometer): <u>B6-066</u>

Please Note: If NAPL is identified in a piezometer, the Project Manager should be notified and the piezometer may not be abandoned unless the presence of NAPL is already known and a decision has been made to abandon the NAPL monitoring network.

Additional Comments (if any):

Transcribed from ARM field book records. Piezometer was found destroyed and was not abandoned.



ARM Group Inc.

APPENDIX C

ENGINEERING ASSOCIATES



March 15, 2021

Mr. Pete Haid Tradepoint Atlantic 1600 Sparrows Point Boulevard Baltimore, Maryland 21219 10975 Guilford Road, Suite A Annapolis Junction, MD 20701 Phone (410) 880-4788 Fax (410) 880-4098 www.hcea.com

RE: Notice of Completion of Remedial Actions Area B: Sub-Parcel B6-2 Baltimore County, Maryland HCEA Project Number 18148A

Mr. Haid:

Hillis-Carnes Engineering Associates, Inc. (HCEA) is pleased to provide this Notice of Completion of Remedial Actions (Notice) for Area B: Sub-Parcel B6-2 in the Sparrows Point area of Baltimore County, Maryland (Site).

In conjunction with HCEA's environmental services at the Site, HCEA was provided with the Response and Development Work Plan for Area B: Sub-Parcel B6-2 (Revision 1 – January 24, 2018), hereafter referred to as the RDWP. Based on observations made during HCEA's environmental monitoring at the Site, to the best of our knowledge, understanding, and belief, the project (e.g., grading and utility installation) was completed in general accordance with the RDWP.

This Notice has been prepared for the exclusive use of the Client pursuant to the agreement between the Client and HCEA, dated March 27, 2018, in accordance with generally accepted industry practices. All terms and conditions set forth in the agreement are incorporated herein. No warranty, express or implied, is made herein. Use and reproduction of this Notice by any other person is unauthorized.

HCEA appreciates the opportunity to have been of assistance on this project. If you have any questions regarding this Notice, please feel free to contact us at 410-880-4788.

Sincerely, HILLIS-CARNES ENGINEERING ASSOCIATES, INC.

Christopher J. Hillis, P.E. Project Engineer chillis@hcea.com

m

Keith M. Progin Senior Environmental Project Manager kprogin@hcea.com

APPENDIX D





Project No.:	18019A	Report No.:	Date:	January 8	, 2019	
Project Name	: B6-2		Weather/Temp: Cloudy/mid 40s			
Client:	Trade Point Atlantic		Travel Time:	hr	Lunch Time:	hr
Contractor:			On Site Time:	hr	Total Time:	hr

A. Description of Work:

HCEA arrived onsite per client request for observation, and soil monitoring services.

Dixie excavated two areas in the southwest of the B6-2 parcel and installed storm drain just north of the canal. HCEA inspected soil excavated from the excavation area and no instance of odors, staining, or PID readings above 10 ppm was observed.

Dust monitors were not deployed on this date due to the limited work. However, no excessive dust was observed.

B. Tests Performed/Testing Equipment Used

Soil monitoring/PID

C: Problems Non-Compliance

D. Referenced Plans/Drawings





Project No.:	18019A	Report No.:	Date:	January 9	, 2019	
Project Name	:B6-2		Weather/Temp: Cloudy/mid 40s			
Client:	Trade Point Atlantic		Travel Time:	hr	Lunch Time:	hr
Contractor:			On Site Time:	hr	Total Time:	hr

A. Description of Work:

HCEA arrived onsite per client request for observation, and soil monitoring services.

Dixie excavated an area in the west of the B6-2 parcel, just west of the TPA building. Dixie hit a water line while excavating. HCEA inspected soil excavated from the excavation area and no instance of odors, staining, or PID readings above 10 ppm was observed. Water leaking out of pipe was capped and area was backfilled.

Dust monitors were not deployed on this date due to the limited work. However, no excessive dust was observed.

B. Tests Performed/Testing Equipment Used

Soil monitoring/PID

C: Problems Non-Compliance

D. Referenced Plans/Drawings

Verification:

Reviewed By: KAR M Pg

Technician: Benjamin Jones





Project No.:	18019A	Report No.:	Date:	January ?	0, 2019	
Project Name	:B6-2		Weather/Temp: Cloudy/mid 30s			
Client:	Trade Point Atlantic		Travel Time:	hr	Lunch Time:	hr
Contractor:			On Site Time:	hr	Total Time:	hr

A. Description of Work:

HCEA arrived onsite per client request for observation, and soil monitoring services.

Dixie excavated an area in the west of the B6-2 parcel, just east of the TPA building in order to work on water pipe in that area. HCEA inspected soil excavated from the excavation area and no instance of odors, staining, or PID readings above 10 ppm was observed.

Dust monitors were not deployed on this date due to the limited work. However, no excessive dust was observed.

B. Tests Performed/Testing Equipment Used

Soil monitoring/PID

C: Problems Non-Compliance

D. Referenced Plans/Drawings





Project No.:	18019A	Report No.:	Date:	January 1	1, 2019	
Project Name	: B6-2		Weather/Temp: Clear/high 30s			
Client:	Trade Point Atlantic		Travel Time:	hr	Lunch Time:	hr
Contractor:			On Site Time:	hr	Total Time:	hr

A. Description of Work:

HCEA arrived onsite per client request for observation, and soil monitoring services.

Dixie worked in the excavated area in the west of the B6-2 parcel, just east of the TPA building in order to work on water pipe.

Dust monitors were not deployed on this date due to the limited work. However, no excessive dust was observed.

B. Tests Performed/Testing Equipment Used

Soil monitoring/PID

Non-Compliance **C: Problems**

D. Referenced Plans/Drawings

Reviewed By: KAR m Pry

Technician: Benjamin Jones





Project No.:	18019A	Report No.:	Date:	January 1	2, 2019	
Project Name	9: B6-2		Weather/Temp: Cloudy/mid 30s			
Client:	Trade Point Atlantic		Travel Time:	hr	Lunch Time:	hr
Contractor:			On Site Time:	hr	Total Time:	hr

A. Description of Work:

HCEA arrived onsite per client request for observation, and soil monitoring services.

Dixie worked in the excavated area in the west of the B6-2 parcel, just east of the TPA building in order to cap water pipe.

B. Tests Performed/Testing Equipment Used

Soil monitoring/PID

C: Problems Non-Compliance

D. Referenced Plans/Drawings





Project No.:	18019A	Report No.:	Date:	January 1	4, 2019	
Project Name	: B6-2		Weather/Temp: Clear/mid 30s			
Client:	Trade Point Atlantic		Travel Time:	hr	Lunch Time:	hr
Contractor:			On Site Time:	hr	Total Time:	hr

A. Description of Work:

HCEA arrived onsite per client request for observation, and soil monitoring services.

Dixie backfilled the excavated area on west side of the B6-2 parcel, just east of the TPA building that was excavated in order to work on the water pipe.

Dust monitors were not deployed on this date due to the limited work. However, no excessive dust was observed.

B. Tests Performed/Testing Equipment Used

Soil monitoring/PID

Non-Compliance **C: Problems**

D. Referenced Plans/Drawings

Verification:

Reviewed By: KIR h Py

Technician: Benjamin Jones

APPENDIX E





Engineers and Scientists

August 21, 2018

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

> Re: Quarterly Development Status Update Second Quarter 2018 Area B: Sub-Parcel B6-2 Tradepoint Atlantic Sparrows Point, Maryland

Dear Ms. Brown,

ARM Group Inc. (ARM), on behalf of EnviroAnalytics Group (EAG), has prepared this Quarterly Development Status Update to document ongoing and completed development activities performed on Sub-Parcel B6-2 (the Site) during the second quarter of 2018. The Sub-Parcel B6-2 Response and Development Work Plan (RADWP) Addendum – Retail Area #1 (dated May 22, 2018) was approved by the agencies by email on June 5, 2018. The initial expected development of Sub-Parcel B6-2 includes grading and utility work.

Environmental Oversight

Full-time oversight was performed by an Environmental Professional (EP) provided by Hillis Carnes Engineering Associates (HCEA) during pre-development (demolition phase) and development activities. In addition to general oversight to ensure compliance with environmental regulations and the development plans, the EP was responsible for performing dust monitoring and soil screening services during intrusive activities.

Development Progress

Development work commenced on April 9, 2018 with Dixie as the General Contractor. Grading was completed for a parking lot. Construction of the building is ongoing. Utility trench work associated with the building construction is ongoing.

Dust Monitoring

Dust monitoring was performed with MetOne E-Sampler dust monitors. During the second quarter of 2018, one exceedance of the 3.0 mg/m³ action level occurred on June 19th, 2018 and did not last more than one minute. Because the exceedance was recorded on the upwind

monitor, the dust was likely not generated during Sub-Parcel B6-2 Retail Area #1 development activities. When dust generation was anticipated due to site conditions and planned development work, the Contractor proactively utilized a water truck to suppress dust.

Soil Management

Slag brought to the site was placed and graded across the entire development area.

The EP screened excavated material with a MultiRAE photoionization detector (PID). During the second quarter of 2018, no soil was segregated due to elevated PID readings, odors, or staining. Materials excavated during utility installations were placed beneath the slag fill at the eastern and western edges of the development area.

Excavated Soil Sampling and Disposal

During the second quarter of 2018, no materials were segregated due to elevated PID readings, staining, or odors. Thus, no sampling of stockpiled soil was required, and no soils were removed from the site for disposal at Greys Landfill or elsewhere.

Water Management

All dewatering discharges associated with the development of Sub-Parcel B6-2 were transmitted to the Tin Mill Canal, which leads to the on-site wastewater treatment plant. Dewatering was discharged downstream of the active remediation area of the Tin Mill Canal.

Notable Occurrences

None

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If you have questions regarding any information covered in this document, please feel free to contact ARM Group Inc. at (410) 290-7775.

Respectfully Submitted, ARM Group Inc.

Melissa Replogle

Melissa A. Replogle, E.I.T. Staff Engineer

Alal Pets

T. Neil Peters, P.E. Senior Vice President

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Engineers and Scientists

October 31, 2018

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

> Re: Quarterly Development Status Update Third Quarter 2018 Area B: Sub-Parcel B6-2 Tradepoint Atlantic Sparrows Point, Maryland

Dear Ms. Brown,

ARM Group Inc. (ARM), on behalf of EnviroAnalytics Group (EAG), has prepared this Quarterly Development Status Update to document ongoing and completed development activities performed on Sub-Parcel B6-2 (the Site) during the third quarter of 2018. The Sub-Parcel B6-2 Response and Development Work Plan (RADWP) Addendum – Retail Area #1 (dated May 22, 2018) was approved by the agencies by email on June 5, 2018. The initial expected development of Sub-Parcel B6-2 includes grading and utility work. Development work completed on Sub-Parcel B6-2 prior to July 1, 2018 is discussed in the previously submitted Quarterly Development Status Update (dated August 21, 2018).

Environmental Oversight

Full-time oversight was performed by an Environmental Professional (EP) provided by Hillis Carnes Engineering Associates (HCEA) during pre-development (demolition phase) and development activities. In addition to general oversight to ensure compliance with environmental regulations and the development plans, the EP was responsible for performing dust monitoring and soil screening services during intrusive activities.

Development Progress

Development work commenced prior to the third quarter of 2018 with Dixie as the General Contractor. Grading and slag placement were performed. A water line and conduit were installed, and structures were installed at the water line junction. Test pitting in support of future water line installation was performed.

Dust Monitoring

Dust monitoring was performed with MetOne E-Sampler dust monitors. During the third quarter of 2018, one exceedance of the 3.0 mg/m³ action level was recorded on the downwind monitor on September 5th, 2018. The exceedance did not last more than one minute and had a maximum 15-minute average concentration of 0.761 mg/m³. When dust generation was anticipated due to site conditions and planned development work, the Contractor proactively utilized a water truck to suppress dust.

Soil Management

Slag brought to the site was placed and graded across the entire development area.

The EP screened excavated material with a MultiRAE photoionization detector (PID). During the third quarter of 2018, no soil was segregated due to elevated PID readings, odors, or staining. Materials excavated during utility installations were replaced inside the utility trenches as backfill. The utility excavations predominantly occurred at shallow depths within the graded slag layer.

Excavated Soil Sampling and Disposal

During the third quarter of 2018, no materials were segregated due to elevated PID readings, staining, or odors. Thus, no sampling of stockpiled soil was required, and no soils were removed from the site for disposal at Greys Landfill or elsewhere.

Water Management

All dewatering discharges associated with the development of Sub-Parcel B6-2 were transmitted to the Tin Mill Canal, which leads to the on-site wastewater treatment plant. Dewatering was discharged downstream of the active area of the Tin Mill Canal maintenance cleanup. No dewatering was required in August or September 2018.

Notable Occurrences

None

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If you have questions regarding any information covered in this document, please feel free to contact ARM Group Inc. at (410) 290-7775.

Respectfully Submitted, ARM Group Inc.

Melissa Replogle

Melissa A. Replogle, E.I.T. Staff Engineer

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T. Neil Peters, P.E. Senior Vice President



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ARM Group Inc.

Engineers and Scientists

January 30, 2019

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

> Re: Quarterly Development Status Update Fourth Quarter 2018 Area B: Sub-Parcel B6-2 Tradepoint Atlantic Sparrows Point, MD 21219

Dear Ms. Brown,

ARM Group Inc. (ARM), on behalf of EnviroAnalytics Group (EAG), has prepared this Quarterly Development Status Update to document ongoing and completed development activities performed on Sub-Parcel B6-2 (the Site) during the fourth quarter of 2018. The Sub-Parcel B6-2 Response and Development Work Plan (RADWP) Addendum – Retail Area #1 (Revision 2 dated May 22, 2018) was approved by the agencies by email on June 5, 2018. The initial overall development of Sub-Parcel B6-2 Retail Area #1 includes grading and utility work. Development work completed on Sub-Parcel B6-2 prior to October 1, 2018 is discussed in the previously submitted Quarterly Development Status Updates (dated August 21, 2018; and October 31, 2018).

Environmental Oversight

Full-time oversight was performed by an Environmental Professional (EP) provided by Hillis Carnes Engineering Associates (HCEA) during pre-development (demolition phase) and intrusive development activities. In addition to general oversight to ensure compliance with environmental regulations and the development plans, the EP was responsible for performing dust monitoring and soil screening services during intrusive activities. No development work was performed in December 2018.

Development Progress

Development work commenced prior to the fourth quarter of 2018 with Dixie as the General Contractor. Excavations for a water line were performed, primarily at shallow depths within the graded slag layer, and the water line was installed. No development work was performed in December 2018.

Dust Monitoring

Dust monitoring was performed with MetOne E-Sampler dust monitors. During the fourth quarter of 2018, there were no exceedances of the 3.0 mg/m^3 action level. When dust generation was anticipated due to site conditions and planned development work, the Contractor proactively utilized a water truck to suppress dust.

Soil Management

The EP screened excavated material with a MultiRAE photoionization detector (PID). During the fourth quarter of 2018, no soil was segregated due to elevated PID readings, odors, or staining. Materials excavated during utility installations were replaced inside the utility trenches as backfill. The utility excavations predominantly occurred at shallow depths within the graded slag layer.

Excavated Soil Sampling and Disposal

During the fourth quarter of 2018, no materials were segregated due to elevated PID readings, staining, or odors. Therefore, no sampling of stockpiled soil was required, and no soils were removed from the site for disposal at Greys Landfill or elsewhere.

Water Management

At the direction of Tradepoint Atlantic personnel, all dewatering discharges associated with the development of Sub-Parcel B6-2 were transmitted through filter bags to the Tin Mill Canal, which leads to the Humphreys Creek Wastewater Treatment Plant. No sheens or odors were detected in any dewatering discharges. No dewatering was required in December 2018.

Notable Occurrences

None

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APPENDIX F



Memo

То:	Mr. Peter Haid – Tradepoint Atlantic
From:	Ms. Gina Galimberti
CC:	Mr. Keith Progin
Date:	March 19, 2018
Re:	Sub-Parcel B6-2 - Pre-Construction Meeting for Grading and Utilities

On March 15, 2018, a pre-construction meeting for grading and utility work to be conducted by Dixie Construction at Sub-Parcel B6-2 was held at the Tradepoint office at 1600 Sparrows Point Boulevard. In attendance were:

- Mr. Peter Haid Environmental Director, Tradepoint Atlantic
- Mr. Robert H. Coburn Tradepoint Atlantic
- Mr. Pat Dixon VP Operations, Dixie Construction
- Mr. James Modafferi, CHST, Safety & Training Manager, Dixie Construction
- Mr. DJ Kellum, Superintendent, Dixie Construction
- Mr. Keith Progin Senior Environmental Project Manager, Hillis-Carnes Engineering
- Ms. Gina Galimberti Environmental Services Manager, Hillis-Carnes Engineering

During this meeting, the Environmental Professional roles that will be performed by Hillis-Carnes during the applicable portions of the project were discussed. The roles generally include: a) monitoring of excavated soil; b) air monitoring for particulate dust; c) monitoring of dewatering activity; and d) documentation. A summary of these roles was provided to the attendees and is attached to this memorandum.

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Keith Progin

From:	Barbara Brown -MDE- <barbara.brown1@maryland.gov></barbara.brown1@maryland.gov>
Sent:	Wednesday, May 16, 2018 1:57 PM
To:	Keith Progin
Cc:	Jennifer Sohns -MDE- (jennifer.sohns@maryland.gov); phaid@tradepointatlantic.com
Subject:	Re: SPT - Northern and Southern Sewer Clean Fill Requests

Hello Keith

The stone material from the Texas and Churchville Quarry as documented in the letters from Martin Marietta is acceptable for use at the Sparrows Point site as clean fill material on either commercial or industrial land use areas.

On Fri, May 11, 2018 at 3:09 PM, Keith Progin <<u>kprogin@hcea.com</u>> wrote:

Please see the attached affidavits for the proposed clean fill to be used during the northern and southern sewer lines. The material comes from Martin Marietta (formerly Blue Grass). Please let me know if this material is suitable.

Thanks!

Keith Progin | Project Manager, Environmental Division

HILLIS-CARNES ENGINEERING ASSOCIATES

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--Barbara Brown MDE-LRP-VCP Section Head direct 410 537 3212 general 410 537 3493

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