



WETLAND DELINEATION REPORT

WHITE CLAY POINT CHESTER COUNTY, PENNSYLVANIA

October 24, 2025

Prepared For:

STONEWALL CAPITAL
117 E. Main Street
Elkton, Maryland 21921
Attn: Mr. Ryan Humphrey

Prepared By:

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GTA Project No: 31251463

GEO-TECHNOLOGY ASSOCIATES, INC.

GEOTECHNICAL AND
ENVIRONMENTAL CONSULTANTS



A Practicing Geoprofessional Business Association Member Firm

October 24, 2025

Stonewall Capitol
117 E. Main Street
Elkton, Maryland 21921
Attn: Mr. Ryan Humphrey

Re: Wetland Delineation Report
White Clay Point
Chester County, Pennsylvania

Dear Mr. Humphrey,

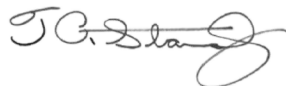
Pursuant to your request, Geo-Technology Associates, Inc. (GTA) has performed a wetland delineation at the above referenced review area. The review area encompassed approximately 187 acres and was located north and south of Gap Newport Pike in the New Garden Township area of Chester County, Pennsylvania. The review area is identified within tax parcel 6006 00320000, as well as portions of the previously delineated parcels 6004 00590000, 6006 00170300, 6006 00360000, 6006 00390000 and 6006 00380000. The purpose of the review was to evaluate the presence and extent of wetlands and/or waterbodies with respect to Federal and State regulatory authority. This Report and the accompanying *Wetland Delineation Plan* summarize GTA's findings.

We appreciate the opportunity to have been of service to you. If you have questions or require additional information, please contact this office at (410) 515-9446.

Sincerely,
GEO-TECHNOLOGY ASSOCIATES, INC.



Amy Nazdrowicz
Senior Wetland Scientist



T. Andy Stansfield Jr.
Vice President

DIA/AJN/TAS
31251463

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WETLAND DELINEATION REPORT
WHITE CLAY POINT
CHESTER COUNTY, PENNSYLVANIA
OCTOBER 24, 2025

1.0 INTRODUCTION

The review area was located north and south of Gap Newport Pike in the New Garden Township area of Chester County, Pennsylvania (*Figure 1*). The review area encompassed tax parcel 6006 00320000, as well as portions of the previously delineated parcels 6004 00590000, 6006 00170300, 6006 00360000, 6006 00390000 and 6006 00380000. Geo-Technology Associates, Inc. (GTA) has been retained to provide a review and delineation of the review area's wetlands and/or waterbodies.

At the time of GTA's environmental review, the review area was predominantly comprised of wooded areas. The topography of the review area ranged from gently sloped to moderately sloped. The approximate latitude and longitude coordinates of the center of the review area was 39.80108° and -75.73658°, respectively.

2.0 DOCUMENT REVIEW

2.1 Site Plans

GTA personnel utilized base maps provided ChesterValley Engineering, Inc. in order to conduct the field evaluation.

2.2 United States Geological Survey Topographic Maps

The United States Geological Survey (USGS), Kennet Square, PA-DE Quadrangle, 7.5-minute Topographic Map Series (*Figure 2*), dated 2023, was used as a reference to identify possible wetlands and waterbodies within and immediately surrounding the review area. USGS Topographic Maps identify elevations, streams, wetlands, and roads. The USGS Topographic Map depicts Woodcock Rill and two waterbodies in the northern portion of the review area. The USGS Topographic Map depicts Broad Run and a waterbody feature in the central portion of the review area. The USGS Topographic Map also depicts an unnamed perennial stream in the southern portion of the review area. The parcels situated north of Gap Newport Pike generally drain northeast towards Woodcock Rill, a tributary to Red Clay Creek. In the vicinity of the review area, Red Clay Creek (basin (all sections in pa), pa-de state border to mouth) is classified in the Pennsylvania code, title 25, chapter 93, water quality standards as cold water fishes and migratory fishes (cwf, mf). The parcels south of Gap Newport Pike generally drain southeast towards Broad Run. In the

vicinity of the review area, Broad Run (basin) is classified in the Pennsylvania code, title 25, chapter 93, water quality standards as exceptional value waters and migratory fishes.

2.3 Soil Survey Information

GTA consulted the U.S. Department of Agriculture, Natural Resources Conservation Service's (NRCS) soil survey data¹ to identify the presence of possible hydric soils, wetlands, and waterbodies. The *Soil Survey Map (Figure 3)* depicts 16 soil units (*Table 1*) within the review area. According to the NRCS National Hydric Soils List², 7 soil units within the review area contain hydric components (*Table 1*).

Table 1: Mapped Soil Units

SYMBOL ¹	NAME/DESCRIPTION ¹	HYDRIC SOIL ²	HYDRIC COMPONENT ²	PERCENTAGE OF MAPPING UNIT ²	POSITION IN LANDSCAPE ²
Ba	Baile silt loam	Yes	Baile	85	Depressions
BaB	Baile silt loam, 3 to 8% slopes	Yes	Baile	85	Depressions
CdB	Chester silt loam, 3 to 8% slopes	No			
GgA	Glenelg silt loam, 0 to 3% slopes	No			
GgB	Glenelg silt loam, 3 to 8% slopes	No			
GgC	Glenelg silt loam, 8 to 15% slopes	No			
GgD	Glenelg silt loam, 15 to 25%	No			
GIA	Glenville silt loam, somewhat poorly drained, 0 to 3% slopes	Yes	Baile	10	Swales, Drainageways
GIB	Glenville silt loam, 3 to 8% slopes	Yes	Baile	10	Drainageways, Swales
Ha	Hatboro silt loam	Yes	Hatboro	95	Floodplains
MaD	Manor loam, 15 to 25% slopes	No			
MaE	Manor loam, 25 to 35% slopes	No			
UdsB	Udorthents, schist and gneiss, 0 to 8% slopes	Yes	Hatboro	1	Floodplains
UrdB	Urban land-Chester complex, 0 to 8% slopes	No			
UrmB	Urban land – Glenelg complex, 0 to 8% slopes	No			
UugB	Urban land – Udothents, schist and gneiss complex, 0 to 8% slopes	Yes	Baile	1	Depressions
W	Water	No			

¹ United States Department of Agriculture, Natural Resource Conservation Service, Chester County, Pennsylvania, Soil Survey Data Version 17, dated September 4, 2024.

² United States Department of Agriculture, Natural Resource Conservation Service, Hydric Soils List by State. Available at https://efotg.sc.egov.usda.gov/references/Public/IL/State_List_NRCS_Hydric_Soils_Report_Dynamic_Data.html, accessed on July 28, 2025 .

2.4 Wetland Indicator Maps

GTA's environmental scientists also consulted digital wetland data available from the United States Fish and Wildlife Service's (USFWS) and National Wetlands Inventory³ (NWI; *Figure 4*). The NWI Wetlands Map depicts a freshwater forested wetland in the northern portion of the review area. The NWI Wetlands Map depicts two ponds (PUBHh) in the northern portion of the review area. The NWI Wetlands Map depicts a pond (PUBHh) and a freshwater forested wetland (PFO1A) in the central portion of the review area. The NWI Wetlands Map depicts a stream (R4SBC) and freshwater pond (PUBHh) on the eastern portion of the review area. The NWI Wetlands Map also depicts a stream (R5UBH) in the southern portion of the review area. The features depicted on the NWI Wetlands Map are classified by USFWS using the Cowardin system, as detailed in *Table 2*.

Table 2: USFWS NWI Cowardin Designations

SYMBOL ³	SYSTEM ³	SUBSYSTEM ³	CLASS ³	SUBCLASS ³	WATER REGIME ³	SPECIAL MODIFIER ³
PFO1A	Palustrine		Forested	Broad-Leaved Deciduous	Temporarily Flooded	
PUBHh	Palustrine		Unconsolidated Bottom		Permanently Flooded	Diked/Impounded
R5UBH	Riverine	Unknown Perennial	Unconsolidated Bottom		Permanently Flooded	
R4SBC	Riverine	Intermittent	Streambed		Seasonally Flooded	

2.5 Aerial Imagery

GTA reviewed aerial imagery dated 1937, 1950, 1951, 1958, 1961, 1968, 1982, 1992, 1999, 2002, 2004, 2006, 2008, 2009, 2010, 2011, 2013, 2015, 2017, 2018, 2019, 2021, and 2022 (*Figure 6*) available from the Microsoft Corporation, Environmental Title Research⁴, and Google, Inc⁶. Based on aerial imagery reviewed by GTA, the review area has consisted of agricultural fields and wooded areas since 1937. Parcel 6004 00590000 contained buildings in the southern portion during 1950. Between 1961 and 1968, it is apparent that the buildings were removed. Between 1982 and 1999, two ponds were created in the northeastern portion of the parcel. Between 1992 and 1999, one of the ponds appeared to have been filled and another pond was created in the northeastern portion along with the apparent construction of a building. It is apparent that over the course of being created the second pond dried out and remained a vegetated basin by 2011.

³ United States Fish and Wildlife Service, National Wetlands Inventory, dated May 17, 2024.

⁴ Environmental Title Research, LLC, NETR Online. Available at <https://www.historicaerials.com>.

⁶ Google Earth Pro, dated 2024.

The second parcel, parcel 6006 00170300, consisted of agricultural fields and a building. Between 1968 and 1982, there appears to be a building added to the center of the parcel along with a parking lot. The central portion of the parcel appears to have been used for industrial purposes between 1999 and 2009. The central building appears to have been removed between 2011 and 2013.

The central portion of the review area consists of parcels 6006 00360000, 6004 00390000, and 6006 0038 0000. In 1950, the parcels consisted of agricultural fields, wooded areas, and buildings in the western and southern portion. Between 1958 and 1961, it appears that buildings were added to the northern portion. The northern portion was also developed for industrial purposes between 1999 and 2009. The buildings appear to have been removed from the northern portion between 2008 and 2009. The buildings in the western portion appear to have been removed between 2015 and 2017. The buildings in the southern portion appear to have been removed between 2018 and 2019.

The southern parcel, parcel 6006 00320000, consisted of agricultural fields in 1937. Between 1968 and 1982, the central and southeastern portion of the parcel appear to have tree regeneration and have become wooded. The agricultural field appears to no longer be in use between 1999 and 2002. Followed by apparent tree regeneration between 2002 and 2004. By 2019 the southern portion of the parcel has become wooded.

3.0 METHODOLOGY

3.1 General Methodology

The purpose of GTA's review was to evaluate the presence and extent of wetlands and waterbodies with respect to Federal and State jurisdictional authority. GTA based its evaluation on the United States Army Corps of Engineers' (USACE) definition of "waters of the U.S." and "navigable waters of the U.S.," which are defined in Title 33 Code of Federal Regulations (CFR), Parts 328 and 329. GTA employed the three-parameter approach set forth in the *Corps of Engineers Wetlands Delineation Manual, Technical Report Y-87-01*, dated 1987 (*1987 Manual*) and the *USACE Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Eastern Mountains and Piedmont Region, Version 2.0*, dated November 2010 (*Supplement*), as a reference for delineating wetlands. The methodology of wetland delineation included identifying hydric soil, wetland hydrology, and dominant hydrophytic vegetation. GTA also considered other regulated waters of the United States, such as ponds, lakes, streams, and rivers. If these waters were observed on the property, GTA incorporated them into the nontidal wetland delineation and labeled them accordingly.

3.2 Hydrology

The *1987 Manual* defines wetland hydrology as the sum of the total wetness characteristics in areas that are inundated or have saturated soils for a sufficient duration to support hydrophytic vegetation. *The 1987 Manual* further defines areas with evident characteristics of wetland hydrology as those where the presence of water has an overriding influence on characteristics of vegetation and soils due to anaerobic and reducing conditions. Wetland hydrology exists when a minimum of one primary indicator or two secondary indicators are present. Indicators of wetland hydrology are generally derived from observations of surface water or saturated soils, evidence of recent inundation, evidence of current or recent soil saturation, and evidence from other site conditions or data. Additional evidence of wetland hydrology can also be used with appropriate documentation.

3.3 Vegetation

Hydrophytic vegetation can be defined as plant life growing in water or on a substrate that is at least periodically inundated by water. The USACE, as part of an interagency effort with the U.S. Environmental Protection Agency (EPA), the USFWS, and the NRCS published the National Wetland Plant List (NWPL). The NWPL lists indicator statuses to plants that occur in and around wetlands, describing the likelihood that species occurs in a wetland:

Obligate Wetland (OBL): Occur in wetlands with an estimated 99% probability.

Facultative Wetland (FACW): Usually occur in wetlands, with an estimated 67%-99% probability.

Facultative (FAC): Equally likely to occur in wetlands and uplands, with an estimated 34%-66% probability of occurring in wetlands.

Facultative Upland (FACU): Usually occur in uplands, with an estimated 67%-99% probability of occurring in uplands.

Obligate Upland (UPL): Occur in uplands with an estimated 99% probability.

For vegetation within a community to be determined hydrophytic in accordance with the *Supplement*, it must pass the Dominance Test, where more than 50% of the dominant plant species observed must have the indicator statuses OBL, FACW, and FAC. If the vegetation observed in the community fails the Dominance Test and indicators of wetland hydrology and hydric soils are present, the Prevalence Index should be applied. Hydrophytic vegetation is present if a prevalence index of 3.0 or less is determined.

3.4 Soils

A hydric soil is defined as a soil that is saturated, flooded, or ponded long enough during the growing season to develop anaerobic conditions (*Supplement*). According to the *Supplement*, indicators of hydric soils form mostly from the loss or accumulation of iron, manganese, sulfur, or carbon compounds during saturated and anaerobic conditions.

3.5 On-Site Data Collection

Data Collection Points (DCPs) were established on-site at locations to evaluate the presence of wetlands and waterbodies, and to demonstrate the typical characteristics of uplands and wetlands. GTA excavated or augured test pits in the ground to a depth of 20 inches or more to observe features of the soil solum. GTA reviewed soil samples from test pits at numbered DCPs in order to describe and classify the soil as either hydric or non-hydric. At these DCPs, GTA also evaluated the surrounding vegetative species and hydrologic indicators. Data Forms were prepared to record observations of the conditions within the wetland and upland areas. Data Forms were also prepared to record data from adjacent upland areas to further support the delineation in the field. The DCPs have been labeled on the *Wetland Delineation Plan* as DCP-1 through DCP-12. Data Forms with reference photographs are included in Appendix B and Appendix C to support the determination depicted on the accompanying *Wetland Delineation Plan* (Appendix D).

3.6 Delineation

Between June and July 2025, GTA performed a wetland delineation to evaluate whether wetlands and/or waterbodies are present within the review area. GTA's field delineation of wetlands and/or waterbodies consisted of identifying the limits of the wetlands and waterbodies with pink and black striped flags, numbered sequentially. Wetland flags were hung at the time of GTA's field visit. GTA used the base plan described in *Section 2.1* to navigate the site. Wetland and waterway flag locations were located in the field using a handheld global positioning system (GPS) rated with sub-meter accuracy and are shown on the accompanying *Wetland Delineation Plan* (Appendix D).

4.0 WETLANDS AND WATERBODIES NARRATIVES

4.1 Waterbodies

Fourteen (14) waterbodies and Fourteen (14) wetlands were identified within the review area. Waterbody A was an open water pond (with no observable connections to other waters) located in the northern portion of the review area. Waterbody B was an intermittent stream located in the northern portion of the review area that originated from within Wetland 1, flowed southeast, and drained into Waterbody D. Waterbody C was an intermittent stream located in the northern portion of the review area that

originated within the review area, flowed south, and drained into Waterbody D. Waterbody D was a perennial stream located in the northern portion of the review area that originated off-site, flowed north, and continued off-site. Waterbody E was a perennial stream located in the northern portion of the review area that originated on-site, flowed northeast, and continued off-site. Waterbody F was an intermittent stream located in the eastern portion of the review area that originated on-site, flowed south, and continued off-site. Waterbody G was an intermittent stream located on the eastern portion of the review area that originated on-site, flowed southeast, and drained into Wetland 6. Waterbody H was an open water pond (with hydrological connections to adjacent waters) located within the eastern portion of the review area. Waterbody I is an intermittent stream located within the eastern portion of the review area that originated on-site, flowed east, and drained Waterbody H. Waterbody J was an intermittent stream located on the eastern portion of the review area that originated on-site, flowed east, and drained Waterbody H. Waterbody K was an intermittent stream located to the east of Waterbody H that originated on-site, flowed southeast, and drained into Waterbody H. Waterbody L was a swale located within the northern portion of the review area that originated on-site, flowed south, and drained Wetland 10. Waterbody M was a perennial stream located within the southern portion of the review area that originated off-site, flowed south, and drained Wetland 12. Waterbody N was an intermittent stream located within the south-central portion of the review area that originated on-site, flowed south, drained through Wetland 14, and drained into Wetland 12. GTA observed defined beds and banks and ordinary high water marks within each Waterbody.

4.2 Wetland 1 and Wetland 10

Wetland 1 and Wetland 10 were palustrine forested wetlands located within the northern portion of the review area. Wetland 1 drained into Waterbody B, Waterbody C, and Waterbody D. Wetland 10 was located north of Wetland 1 and was geographically isolated with no observable surface connection to other waters. Within Wetland 1 and 10, GTA observed predominantly hydrophytic vegetation species, including northern spice bush (*Lindera benzoin*, FAC) and skunk cabbage (*Symplocarpus foetidus*, OBL). GTA observed evidence of primary indicators of wetland hydrology within the wetlands, including indicators A2 (High Water Table) and B9 (Water-Stained Leaves). GTA observed evidence of secondary indicators of wetland hydrology within the wetlands, including indicators D2 (Geomorphic Position) and D5 (FAC-Neutral Test). GTA excavated test pits to depths of 20 inches or greater within the wetland boundaries and observed the NRCS and USACE hydric soils field indicator F3 (Depleted Matrix).

4.3 Wetland 2

Wetland 2 was a palustrine emergent/forested wetland located within the northern portion of the review area. Wetland 2 drained into Waterbody E. Within Wetland 2, GTA observed predominantly hydrophytic vegetation species, including reed canary grass (*Phalaris arundinacea*, FACW), jewelweed (*Impatiens capensis*, FACW) and arrow-leaved tearthumb (*Persicaria sagittata*, OBL). GTA observed evidence of primary indicators of wetland hydrology within the wetland, including indicators A1 (Surface Water) and A2 (High Water Table). GTA observed evidence of secondary indicators of wetland hydrology within the wetland, including indicators D2 (Geomorphic Position) and D5 (FAC-Neutral Test). GTA excavated test pits to depths of 20 inches or greater within the wetland boundaries and observed the NRCS and USACE hydric soils field indicator F3 (Depleted Matrix).

4.4 Wetland 3

Wetland 3 was a palustrine emergent wetland located within the review area, just north of Gap Newport Pike. Wetland 3 was geographically isolated with no observable connections to other waters. Within Wetland 3, GTA observed predominantly hydrophytic vegetation species, including common reed (*Phragmites australis*, FACW), penny wort (*Hydrocotyle sibthorpiodes*, FACW) and purple loosestrife (*Lythrum salicaria*, FACW). GTA observed evidence of primary indicators of wetland hydrology within the wetland, including indicators A2 (High Water Table) and A3 (Saturation). GTA observed evidence of secondary indicators of wetland hydrology within the wetland, including indicator D5 (FAC-Neutral Test). GTA excavated test pits to depths of 20 inches or greater within the wetland boundaries and observed the NRCS and USACE hydric soils field indicator F3 (Depleted Matrix).

4.5 Wetlands 4 through 9

Wetlands 4, 5, 6, 7, 8, and 9 were palustrine forested wetlands located along Waterbody F. Wetlands 5, 7, and 8 were situated adjacent to Waterbody F but with no observable surface connection to it. Within Wetlands 4 through 9, GTA observed predominantly hydrophytic vegetation species, including box elder (*Acer negundo*, FAC), reed canary grass (*Phalaris arundinacea*, FACW), purple loosestrife (*Lythrum salicaria*, FACW), and Japanese Hops (*Humulus japonica*, FACU). GTA observed evidence of primary indicators of wetland hydrology within the wetlands, including indicators A1 (Surface water), A2 (High Water Table), and A3 (Saturation). GTA observed evidence of secondary indicators of wetland hydrology within the wetlands, including indicator D5 (FAC-Neutral Test). GTA excavated test pits to depths of 20 inches or greater within the wetland boundaries and observed the NRCS and USACE hydric soils field indicator F3 (Depleted Matrix).

4.6 Wetland 11

Wetland 11 was a palustrine emergent/forested wetland located within the southern portion of the review area. Wetland 11 continued off-site to the west via a culvert. Within Wetland 11, GTA observed predominantly hydrophytic vegetation species, including red maple (*Acer rubrum*, FAC), American sycamore (*Platanus occidentalis*, FACW), sensitive fern (*Onoclea sensibilis*, FACW), common reed, and skunk cabbage. GTA observed evidence of primary indicators of wetland hydrology within the wetland, including indicator B9 (Water-Stained Leaves). GTA observed evidence of secondary indicators of wetland hydrology within the wetland, including indicators D2 (Geomorphic Position) and D5 (FAC-Neutral Test). GTA excavated test pits to depths of 20 inches or greater within the wetland boundaries and observed the NRCS and USACE hydric soils field indicator F3 (Depleted Matrix).

4.7 Wetlands 12, 13, and 14

Wetlands 12, 13, and 14 were palustrine forested wetlands located within the southern portion of the review area. Wetland 13 was geographically isolated with no observable connections to other waters. Within Wetlands 12, 13, and 14, GTA observed predominantly hydrophytic vegetation species, including sugar maple (*Acer saccharinum*, FACW), box elder, spice bush, Japanese stiltgrass (*Microstegium vimineum*, FAC), redshank (*Persicaria maculosa*, FACW), jack-in-the-pulpit (*Arisaema triphyllum*, FACW), and smallspike false nettle (*Boehmeria cylindrica*, FACW). GTA observed evidence of primary indicators of wetland hydrology within the wetlands, including indicator A2 (High Water Table), A3 (Saturation), B9 (Water-Stained Leaves). GTA observed evidence of secondary indicators of wetland hydrology within the wetlands, including indicators B6 (Surface Soil Cracks), B8 (Sparsely Vegetated Concave Surface), and D5 (FAC-Neutral Test). GTA excavated test pits to depths of 20 inches or greater within the wetland boundaries and observed the NRCS and USACE hydric soils field indicator F3 (Depleted Matrix).

5.0 CONCLUSION

As a result of GTA's environmental review of the review area, it is GTA's professional opinion that there are Waters of the U.S., including wetlands, present within the review area. GTA observed a continuous surface connection between Wetlands 1, 2, 4, 6, 9, 12, and 14 and Waters of the U.S. and, therefore, it is GTA's professional opinion that these wetlands should be considered state- and federally-jurisdictional. Wetlands 3, 5, 7, 8, 10, and 13 were geographically isolated with no observable surface connection to Waters of the U.S. and, therefore, it is GTA's professional opinion that these wetlands should be considered only state-jurisdictional. These wetlands were flagged in the field and are identified on the *Wetland Delineation Plan*.

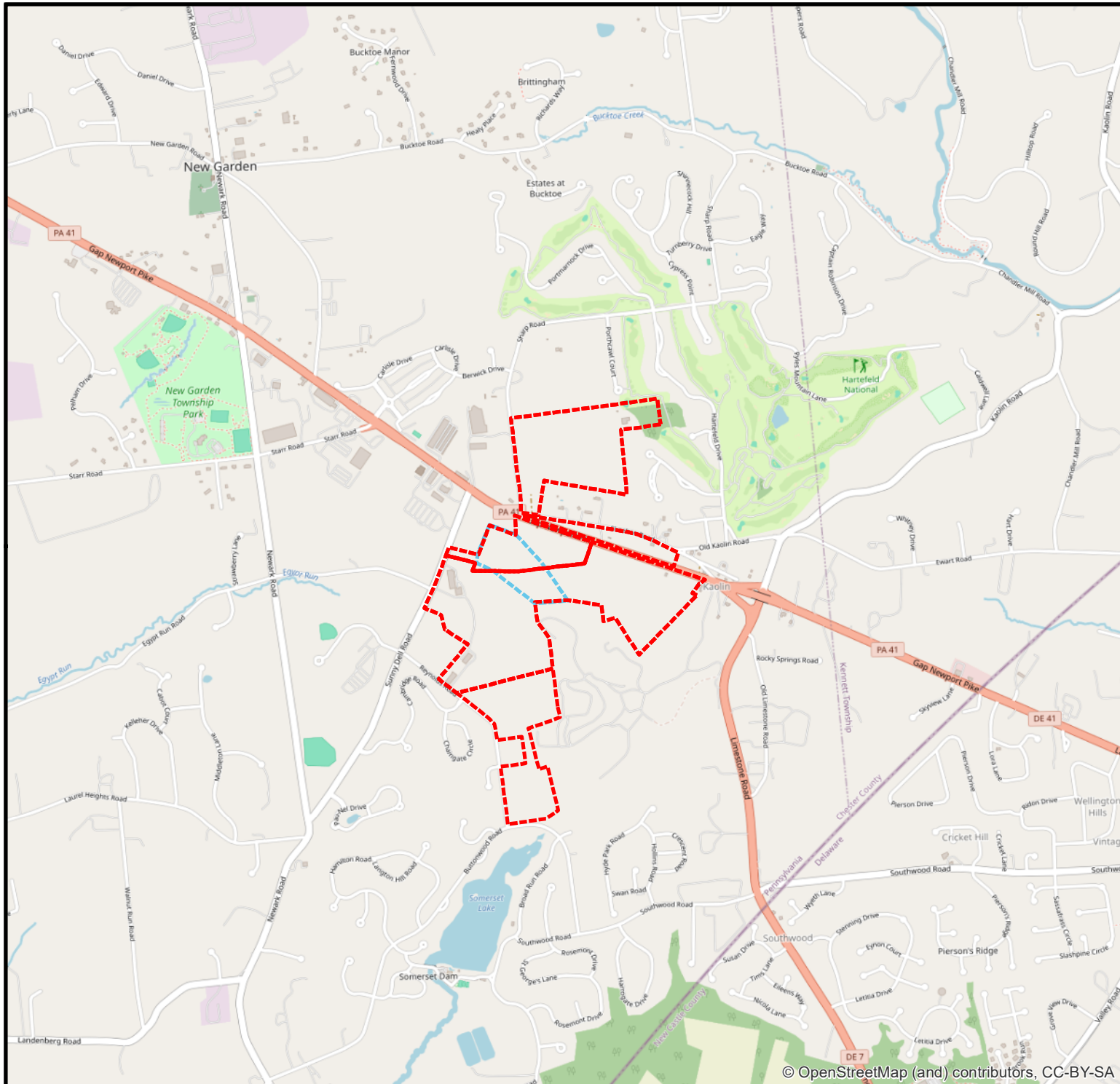
Our conclusions regarding the review area have been based on observations of existing conditions, professional experience in the area with similar projects, and generally accepted professional environmental practice under similar circumstances. Seasonal fluctuations in precipitation or weather conditions can result in differences in the perception of hydrologic conditions, which can alter GTA's evaluation of wetlands/waterbodies. It is important to note that this delineation is GTA's professional opinion, only. Decisions regarding the official jurisdictional status of wetlands/waterbodies are made by federal, state, and/or local regulatory agencies.

This Report was prepared by GTA for the sole and exclusive use of Stonewall Capital. Any reproduction of this Report by any other person without the expressed written permission of GTA and Stonewall Capital is unauthorized, and such use is at the sole risk of the user.

******* END OF REPORT *******

Appendix A

Figures



LEGEND

- REVIEW AREA
- REVIEWED BY OTHERS



GEO-TECHNOLOGY ASSOCIATES, INC. GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

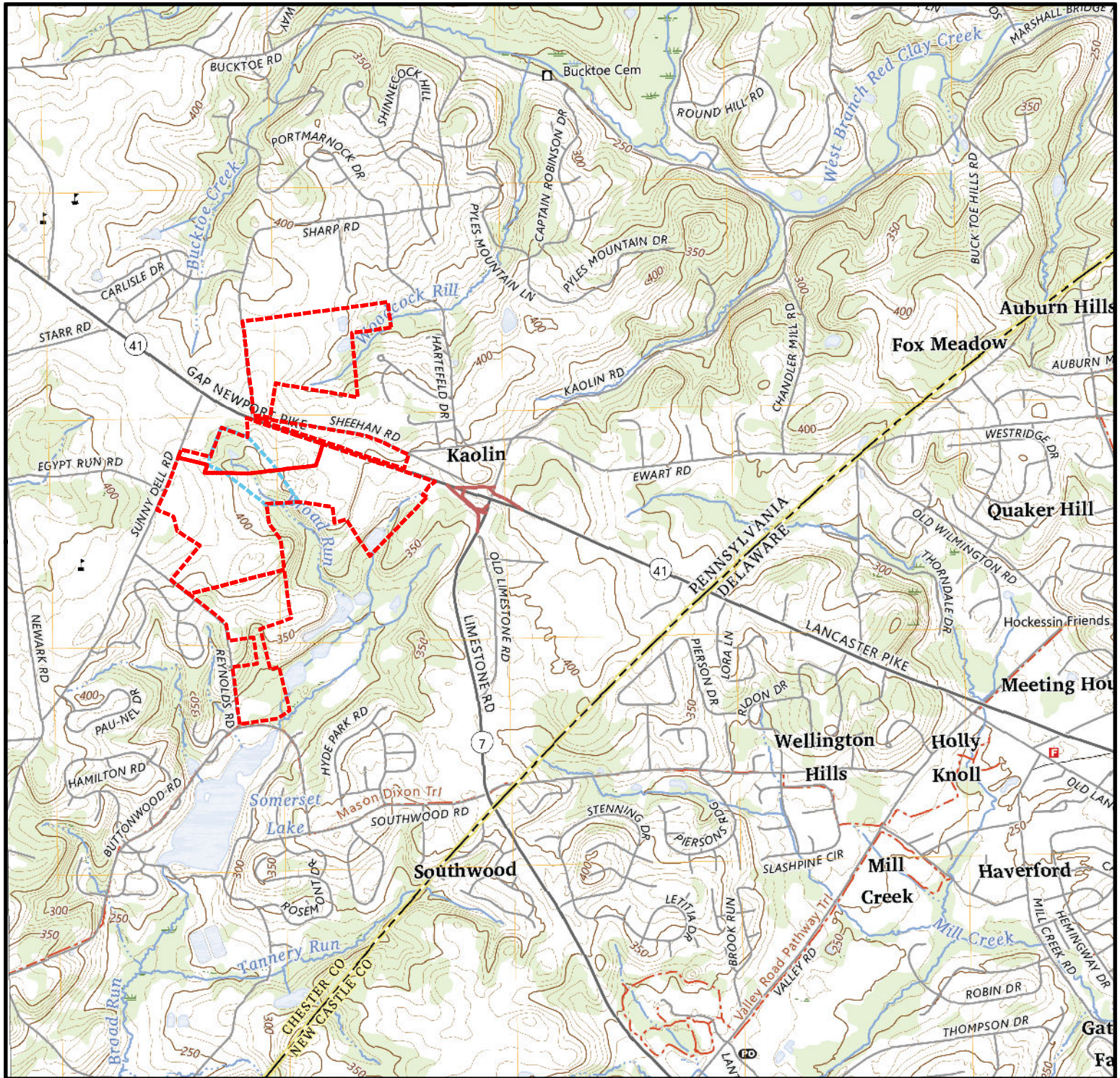
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SITE LOCATION MAP WHITE CLAY POINT

CHESTER COUNTY, PENNSYLVANIA

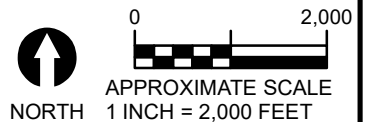




SOURCE: UNITED STATES GEOLOGICAL SURVEY (USGS), KENNET SQUARE, PA, DE QUADRANGLE, 7.5 MINUTE TOPOGRAPHIC MAP SERIES, DATED 2023

LEGEND

- SUBJECT SITE
- REVIEWED BY OTHERS



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USGS TOPOGRAPHIC MAP WHITE CLAY POINT

NEW GARDEN TOWNSHIP, CHESTER COUNTY, PENNSYLVANIA

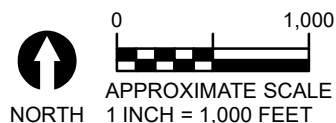


Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

SOURCE: UNITED STATES FISH AND WILDLIFE SERVICE (USFWS), NATIONAL WETLANDS INVENTORY (NWI), DATED MAY 17, 2024. 2024 BASE AERIAL IMAGERY PROVIDED BY ESRI, MAXAR, EARTHSTAR GEOGRAPHICS, AND THE GIS USER COMMUNITY.

LEGEND

 	REVIEW AREA	 	FRESHWATER POND
 	REVIEWED BY OTHERS	 	LAKE
 	FRESHWATER EMERGENT WETLAND	 	RIVERINE
 	FRESHWATER FORESTED/SHRUB WETLAND		



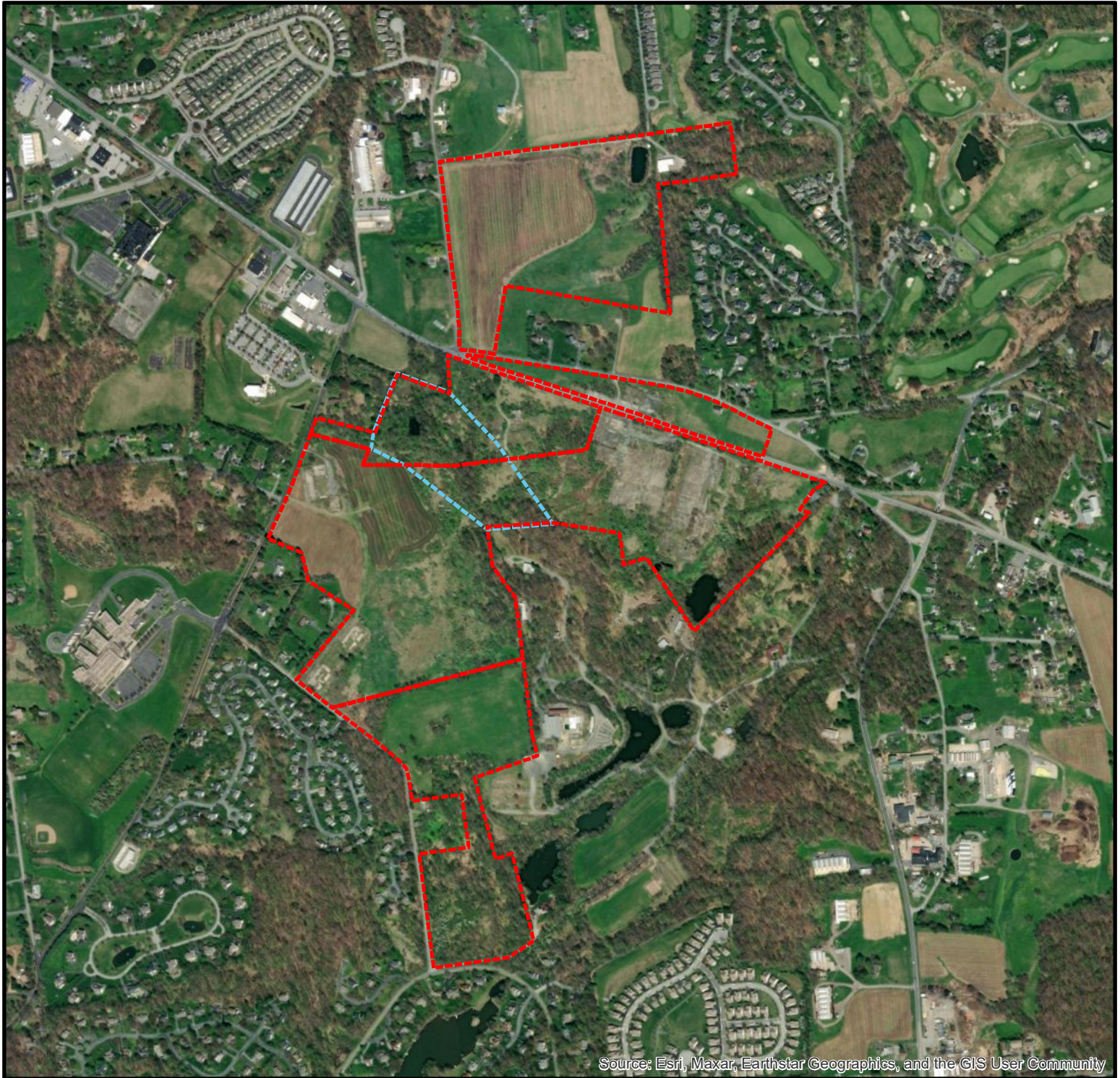
GEO-TECHNOLOGY ASSOCIATES, INC. GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

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ABINGDON, MARYLAND 21009
PHONE: 410-515-9446
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NWI WETLANDS MAP WHITE CLAY POINT

NEW GARDEN TOWNSHIP, CHESTER COUNTY, PENNSYLVANIA

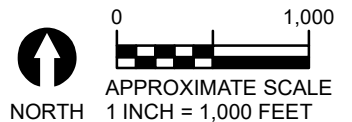


Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

SOURCE: 2024 BASE AERIAL IMAGERY PROVIDED BY ESRI, MAXAR, EARTHSTAR GEOGRAPHICS, AND THE GIS USER COMMUNITY.

LEGEND

- REVIEW AREA
- REVIEWED BY OTHERS



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2025 AERIAL WHITE CLAY POINT

CHESTER COUNTY, PENNSYLVANIA

Appendix B

Data Forms

VEGETATION (Four Strata) – Use scientific names of plants.

 Sampling Point: DCP-1

Tree Stratum (Plot size: <u>30 ft r</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Liriodendron tulipifera</u>	<u>50</u>	☒	<u>FACU</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>20.00</u> (A/B)																
2. <u>Fagus grandifolia</u>	<u>40</u>	☒	<u>FACU</u>																	
3. _____	_____																			
4. _____	_____																			
5. _____	_____																			
6. _____	_____																			
7. _____	_____																			
	<u>90</u>	=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>55</u></td> <td>x 3 = <u>165</u></td> </tr> <tr> <td>FACU species <u>140</u></td> <td>x 4 = <u>560</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>195</u> (A)</td> <td><u>725</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>3.71</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>55</u>	x 3 = <u>165</u>	FACU species <u>140</u>	x 4 = <u>560</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>195</u> (A)	<u>725</u> (B)	Prevalence Index = B/A = <u>3.71</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>0</u>	x 2 = <u>0</u>																			
FAC species <u>55</u>	x 3 = <u>165</u>																			
FACU species <u>140</u>	x 4 = <u>560</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>195</u> (A)	<u>725</u> (B)																			
Prevalence Index = B/A = <u>3.71</u>																				
50% of total cover: <u>45.00</u>		20% of total cover: <u>18.00</u>																		
Sapling/Shrub Stratum (Plot size: <u>15 ft r</u>)																				
1. <u>Hamamelis virginiana</u>	<u>20</u>	☒	<u>FACU</u>	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain)																
2. _____	_____																			
3. _____	_____																			
4. _____	_____																			
5. _____	_____																			
6. _____	_____																			
7. _____	_____																			
	<u>20</u>	=Total Cover																		
50% of total cover: <u>10.00</u>		20% of total cover: <u>4.00</u>																		
Herb Stratum (Plot size: <u>5 ft r</u>)																				
1. <u>Parathelypteris noveboracensis</u>	<u>40</u>	☒	<u>FAC</u>	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in height.																
2. <u>Podophyllum peltatum</u>	<u>30</u>	☒	<u>FACU</u>																	
3. <u>Lindera benzoin</u>	<u>15</u>		<u>FAC</u>																	
4. <u>Lonicera periclymenum</u>	<u>5</u>																			
5. _____	_____																			
6. _____	_____																			
7. _____	_____																			
	<u>90</u>	=Total Cover																		
50% of total cover: <u>45.00</u>		20% of total cover: <u>18.00</u>																		
Woody Vine Stratum (Plot size: <u>30 ft r</u>)																				
1. <u>Stratum not present.</u>				Hydrophytic Vegetation Present? Yes <u> </u> No ☒																
2. _____	_____																			
3. _____	_____																			
4. _____	_____																			
5. _____	_____																			
		=Total Cover																		
50% of total cover: _____		20% of total cover: _____																		
Remarks: (Include photo numbers here or on a separate sheet.)																				

SOIL

Sampling Point: DCP-1**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0 - 5	10YR 3/3	100					Loamy Sand	
5 - 12	10YR 4/4	100					Sandy Loam	
12 - 20	10YR 4/6						Sandy Loam	
-								
-								
-								

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.²Location: PL=Pore Lining, M=Matrix.**Hydric Soil Indicators:**

☐ Histosol (A1)	☐ Polyvalue Below Surface (S8) (MLRA 147, 148)
☐ Histic Epipedon (A2)	☐ Thin Dark Surface (S9) (MLRA 147, 148)
☐ Black Histic (A3)	☐ Loamy Mucky Mineral (F1) (MLRA 136)
☐ Hydrogen Sulfide (A4)	☐ Loamy Gleyed Matrix (F2)
☐ Stratified Layers (A5)	☐ Depleted Matrix (F3)
☐ 2 cm Muck (A10) (LRR N)	☐ Redox Dark Surface (F6)
☐ Depleted Below Dark Surface (A11)	☐ Depleted Dark Surface (F7)
☐ Thick Dark Surface (A12)	☐ Redox Depressions (F8)
☐ Iron Monosulfide (A18)	☐ Iron-Manganese Masses (F12) (LRR N, MLRA 136)
☐ Sandy Mucky Mineral (S1)	☐ Umbric Surface (F13) (MLRA 122, 136)
☐ Sandy Gleyed Matrix (S4)	☐ Piedmont Floodplain Soils (F19) (MLRA 148)
☐ Sandy Redox (S5)	☐ Red Parent Material (F21) (MLRA 127, 147, 148)
☐ Stripped Matrix (S6)	
☐ Dark Surface (S7)	

Indicators for Problematic Hydric Soils³:

☐ 2 cm Muck (A10) (MLRA 147)
☐ Coast Prairie Redox (A16)
☐ (MLRA 147, 148)
☐ Piedmont Floodplain Soils (F19)
☐ (MLRA 136, 147)
☐ Red Parent Material (F21)
☐ (outside MLRA 127, 147, 148)
☐ Very Shallow Dark Surface (F22)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**
 Type: _____
 Depth (inches): _____
Hydric Soil Present? Yes _____ No ☒

Remarks:

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region See ERDC/EL TR-12-9; the proponent agency is CECW-COR	OMB Control #: 0710-0024, Exp: 09/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: White Clay Point City/County: Avondale Sampling Date: 2025-06-20
Applicant/Owner: Stonewall Capital State: Pennsylvania Sampling Point: DCP-2
Investigator(s): DIA & AJN Section, Township, Range: _____
Landform (hillside, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 5
Subregion (LRR or MLRA): S 148 Lat: 39.8054414 Long: -75.7305799 Datum: NAD 83
Soil Map Unit Name: BaB - Baile silt loam, 3 to 8 percent slopes NWI classification: _____
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No _____ (If no, explain in Remarks.)
Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No _____
Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes ☒ No _____	Is the Sampled Area within a Wetland? Yes ☒ No _____
Hydric Soil Present? Yes ☒ No _____	
Wetland Hydrology Present? Yes ☒ No _____	

Remarks:

This DCP was established within Wetland 1.

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> ☐ Surface Water (A1) ☐ True Aquatic Plants (B14) ☒ High Water Table (A2) ☐ Hydrogen Sulfide Odor (C1) ☐ Saturation (A3) ☐ Oxidized Rhizospheres on Living Roots (C3) ☐ Water Marks (B1) ☐ Presence of Reduced Iron (C4) ☐ Sediment Deposits (B2) ☐ Recent Iron Reduction in Tilled Soils (C6) ☐ Drift Deposits (B3) ☐ Thin Muck Surface (C7) ☐ Algal Mat or Crust (B4) ☐ Other (Explain in Remarks) ☐ Iron Deposits (B5) ☐ Inundation Visible on Aerial Imagery (B7) ☒ Water-Stained Leaves (B9) ☐ Aquatic Fauna (B13)	<u>Secondary Indicators (minimum of two required)</u> ☐ Surface Soil Cracks (B6) ☐ Sparsely Vegetated Concave Surface (B8) ☐ Drainage Patterns (B10) ☐ Moss Trim Lines (B16) ☐ Dry-Season Water Table (C2) ☐ Crayfish Burrows (C8) ☐ Saturation Visible on Aerial Imagery (C9) ☐ Stunted or Stressed Plants (D1) ☒ Geomorphic Position (D2) ☐ Shallow Aquitard (D3) ☐ Microtopographic Relief (D4) ☒ FAC-Neutral Test (D5)
--	--

Field Observations: Surface Water Present? Yes _____ No ☒ Depth (inches): _____ Water Table Present? Yes ☒ No _____ Depth (inches): <u>0</u> Saturation Present? Yes _____ No ☒ Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes ☒ No _____
--	--

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION (Four Strata) – Use scientific names of plants.

 Sampling Point: DCP-2

Tree Stratum (Plot size: <u>30 ft r</u>)	Absolute % Cover	Dominant Species?	Indicator Status															
1. <u>Stratum not present</u>				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.00</u> (A/B)														
2. _____																		
3. _____																		
4. _____																		
5. _____																		
6. _____																		
7. _____																		
_____ = Total Cover				Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>80</u></td> <td>x 1 = <u>80</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>20</u></td> <td>x 3 = <u>60</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>100</u> (A)</td> <td><u>140</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>1.40</u>	Total % Cover of:	Multiply by:	OBL species <u>80</u>	x 1 = <u>80</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>20</u>	x 3 = <u>60</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>100</u> (A)	<u>140</u> (B)
Total % Cover of:	Multiply by:																	
OBL species <u>80</u>	x 1 = <u>80</u>																	
FACW species <u>0</u>	x 2 = <u>0</u>																	
FAC species <u>20</u>	x 3 = <u>60</u>																	
FACU species <u>0</u>	x 4 = <u>0</u>																	
UPL species <u>0</u>	x 5 = <u>0</u>																	
Column Totals: <u>100</u> (A)	<u>140</u> (B)																	
50% of total cover: _____ 20% of total cover: _____																		
Sapling/Shrub Stratum (Plot size: <u>15 ft r</u>)																		
1. <u>Lindera benzoin</u>	<u>20</u>	☒	<u>FAC</u>	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation ☒ <u>2</u> - Dominance Test is >50% ☒ <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain)														
2. _____																		
3. _____																		
4. _____																		
5. _____																		
6. _____																		
7. _____																		
_____ = Total Cover																		
50% of total cover: <u>10.00</u> 20% of total cover: <u>4.00</u>																		
Herb Stratum (Plot size: <u>5 ft r</u>)																		
1. <u>Symplocarpus foetidus</u>	<u>80</u>	☒	<u>OBL</u>	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in height.														
2. _____																		
3. _____																		
4. _____																		
5. _____																		
6. _____																		
7. _____																		
_____ = Total Cover																		
50% of total cover: <u>40.00</u> 20% of total cover: <u>16.00</u>																		
Woody Vine Stratum (Plot size: <u>30 ft r</u>)																		
1. <u>Stratum not present.</u>				Hydrophytic Vegetation Present? Yes ☒ No _____														
2. _____																		
3. _____																		
4. _____																		
5. _____																		
_____ = Total Cover																		
50% of total cover: _____ 20% of total cover: _____																		
Remarks: (Include photo numbers here or on a separate sheet.)																		

SOIL

Sampling Point: DCP-2**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0 - 5	10YR 4/1	100					Sandy Loam	
5 - 13	7.5YR 4/1	98	10YR 4/4	2			Sandy Loam	
13 - 20	7.5YR 4/1	100					Sandy Loam	
-								
-								
-								

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.²Location: PL=Pore Lining, M=Matrix.**Hydric Soil Indicators:**

☐ Histosol (A1)	☐ Polyvalue Below Surface (S8) (MLRA 147, 148)
☐ Histic Epipedon (A2)	☐ Thin Dark Surface (S9) (MLRA 147, 148)
☐ Black Histic (A3)	☐ Loamy Mucky Mineral (F1) (MLRA 136)
☐ Hydrogen Sulfide (A4)	☐ Loamy Gleyed Matrix (F2)
☐ Stratified Layers (A5)	☒ Depleted Matrix (F3)
☐ 2 cm Muck (A10) (LRR N)	☐ Redox Dark Surface (F6)
☐ Depleted Below Dark Surface (A11)	☐ Depleted Dark Surface (F7)
☐ Thick Dark Surface (A12)	☐ Redox Depressions (F8)
☐ Iron Monosulfide (A18)	☐ Iron-Manganese Masses (F12) (LRR N, MLRA 136)
☐ Sandy Mucky Mineral (S1)	☐ Umbric Surface (F13) (MLRA 122, 136)
☐ Sandy Gleyed Matrix (S4)	☐ Piedmont Floodplain Soils (F19) (MLRA 148)
☐ Sandy Redox (S5)	☐ Red Parent Material (F21) (MLRA 127, 147, 148)
☐ Stripped Matrix (S6)	
☐ Dark Surface (S7)	

Indicators for Problematic Hydric Soils³:

☐ 2 cm Muck (A10) (MLRA 147)
☐ Coast Prairie Redox (A16) (MLRA 147, 148)
☐ Piedmont Floodplain Soils (F19) (MLRA 136, 147)
☐ Red Parent Material (F21) (outside MLRA 127, 147, 148)
☐ Very Shallow Dark Surface (F22)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**
 Type: _____
 Depth (inches): _____
Hydric Soil Present? Yes ☒ No ☐

Remarks:

VEGETATION (Four Strata) – Use scientific names of plants.

 Sampling Point: Dcp-3

Tree Stratum (Plot size: <u>30 ft r</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Paulownia tomentosa</u>	<u>10</u>	☒	<u>UPL</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.00</u> (A/B)																
2. <u>Robinia pseudoacacia</u>	<u>5</u>	☒	<u>FACU</u>																	
3. _____	_____																			
4. _____	_____																			
5. _____	_____																			
6. _____	_____																			
7. _____	_____																			
	<u>15</u>	=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>5</u></td> <td>x 2 = <u>10</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>95</u></td> <td>x 4 = <u>380</u></td> </tr> <tr> <td>UPL species <u>10</u></td> <td>x 5 = <u>50</u></td> </tr> <tr> <td>Column Totals: <u>110</u> (A)</td> <td><u>440</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>4.00</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>5</u>	x 2 = <u>10</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>95</u>	x 4 = <u>380</u>	UPL species <u>10</u>	x 5 = <u>50</u>	Column Totals: <u>110</u> (A)	<u>440</u> (B)	Prevalence Index = B/A = <u>4.00</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>5</u>	x 2 = <u>10</u>																			
FAC species <u>0</u>	x 3 = <u>0</u>																			
FACU species <u>95</u>	x 4 = <u>380</u>																			
UPL species <u>10</u>	x 5 = <u>50</u>																			
Column Totals: <u>110</u> (A)	<u>440</u> (B)																			
Prevalence Index = B/A = <u>4.00</u>																				
50% of total cover: <u>7.50</u>		20% of total cover: <u>3.00</u>																		
Sapling/Shrub Stratum (Plot size: <u>15 ft r</u>)																				
1. <u>Stratum not present</u>				Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
8. _____																				
9. _____																				
		=Total Cover																		
50% of total cover: _____		20% of total cover: _____																		
Herb Stratum (Plot size: <u>5 ft r</u>)																				
1. <u>Humulus japonicus</u>	<u>90</u>	☒	<u>FACU</u>	Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in height.																
2. <u>Conium maculatum</u>	<u>5</u>		<u>FACW</u>																	
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
8. _____																				
9. _____																				
10. _____																				
11. _____																				
	<u>95</u>	=Total Cover																		
50% of total cover: <u>47.50</u>		20% of total cover: <u>19.00</u>																		
Woody Vine Stratum (Plot size: <u>30 ft r</u>)																				
1. <u>Stratum not present.</u>				Hydrophytic Vegetation Present? Yes <u> </u> No ☒																
2. _____																				
3. _____																				
4. _____																				
5. _____																				
		=Total Cover																		
50% of total cover: _____		20% of total cover: _____																		
Remarks: (Include photo numbers here or on a separate sheet.)																				

SOIL

Sampling Point: Dcp-3**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0 - 8	10YR 3/2	100					Loamy Sand	
8 - 20	10YR 3/3	100					Sandy Loam	
-								
-								
-								
-								

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.²Location: PL=Pore Lining, M=Matrix.**Hydric Soil Indicators:**

☐ Histosol (A1)	☐ Polyvalue Below Surface (S8) (MLRA 147, 148)
☐ Histic Epipedon (A2)	☐ Thin Dark Surface (S9) (MLRA 147, 148)
☐ Black Histic (A3)	☐ Loamy Mucky Mineral (F1) (MLRA 136)
☐ Hydrogen Sulfide (A4)	☐ Loamy Gleyed Matrix (F2)
☐ Stratified Layers (A5)	☐ Depleted Matrix (F3)
☐ 2 cm Muck (A10) (LRR N)	☐ Redox Dark Surface (F6)
☐ Depleted Below Dark Surface (A11)	☐ Depleted Dark Surface (F7)
☐ Thick Dark Surface (A12)	☐ Redox Depressions (F8)
☐ Iron Monosulfide (A18)	☐ Iron-Manganese Masses (F12) (LRR N, MLRA 136)
☐ Sandy Mucky Mineral (S1)	☐ Umbric Surface (F13) (MLRA 122, 136)
☐ Sandy Gleyed Matrix (S4)	☐ Piedmont Floodplain Soils (F19) (MLRA 148)
☐ Sandy Redox (S5)	☐ Red Parent Material (F21) (MLRA 127, 147, 148)
☐ Stripped Matrix (S6)	
☐ Dark Surface (S7)	

Indicators for Problematic Hydric Soils³:

☐ 2 cm Muck (A10) (MLRA 147)
☐ Coast Prairie Redox (A16)
☐ (MLRA 147, 148)
☐ Piedmont Floodplain Soils (F19)
☐ (MLRA 136, 147)
☐ Red Parent Material (F21)
☐ (outside MLRA 127, 147, 148)
☐ Very Shallow Dark Surface (F22)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**Type: _____
Depth (inches): _____Hydric Soil Present? Yes _____ No ☒

Remarks:

VEGETATION (Four Strata) – Use scientific names of plants.

 Sampling Point: DCP-4

Tree Stratum (Plot size: <u>30 ft r</u>)	Absolute % Cover	Dominant Species?	Indicator Status															
1. <u>Stratum not present.</u>				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.00</u> (A/B)														
2. _____																		
3. _____																		
4. _____																		
5. _____																		
6. _____																		
7. _____																		
_____ = Total Cover				Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>1</u></td> <td>x 1 = <u>1</u></td> </tr> <tr> <td>FACW species <u>100</u></td> <td>x 2 = <u>200</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>101</u> (A)</td> <td><u>201</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>1.99</u>	Total % Cover of:	Multiply by:	OBL species <u>1</u>	x 1 = <u>1</u>	FACW species <u>100</u>	x 2 = <u>200</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>101</u> (A)	<u>201</u> (B)
Total % Cover of:	Multiply by:																	
OBL species <u>1</u>	x 1 = <u>1</u>																	
FACW species <u>100</u>	x 2 = <u>200</u>																	
FAC species <u>0</u>	x 3 = <u>0</u>																	
FACU species <u>0</u>	x 4 = <u>0</u>																	
UPL species <u>0</u>	x 5 = <u>0</u>																	
Column Totals: <u>101</u> (A)	<u>201</u> (B)																	
50% of total cover: _____ 20% of total cover: _____																		
Sapling/Shrub Stratum (Plot size: <u>15 ft r</u>)																		
1. <u>Stratum not present.</u>																		
2. _____																		
3. _____																		
4. _____																		
5. _____																		
6. _____																		
7. _____																		
8. _____																		
9. _____																		
_____ = Total Cover																		
50% of total cover: _____ 20% of total cover: _____																		
Herb Stratum (Plot size: <u>5 ft r</u>)																		
1. <u>Phalaris arundinacea</u>	<u>98</u>	☒	<u>FACW</u>	Hydrophytic Vegetation Indicators: ☒ 1 - Rapid Test for Hydrophytic Vegetation ☒ 2 - Dominance Test is >50% ☒ 3 - Prevalence Index is ≤3.0 ¹ ☐ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ☐ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.														
2. <u>Impatiens capensis</u>	<u>2</u>		<u>FACW</u>															
3. <u>Persicaria sagittata</u>	<u>1</u>		<u>OBL</u>															
4. _____																		
5. _____																		
6. _____																		
7. _____																		
8. _____																		
9. _____																		
10. _____																		
11. _____																		
_____ = Total Cover																		
50% of total cover: <u>50.50</u> 20% of total cover: <u>20.20</u>																		
Woody Vine Stratum (Plot size: <u>30 ft r</u>)																		
1. <u>Stratum not present.</u>																		
2. _____																		
3. _____																		
4. _____																		
5. _____																		
_____ = Total Cover																		
50% of total cover: _____ 20% of total cover: _____																		
Remarks: (Include photo numbers here or on a separate sheet.)																		

SOIL

Sampling Point: DCP-4**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0 - 3	10YR 3/1	100					Sandy Loam	
3 - 7	10YR 6/1	98	7.5YR 4/6	2	C	M	Sandy Loam	
7 - 20	2.5Y 6/1	75	7.5YR 4/4	25	C	M	Sandy Loam	
-								
-								
-								

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.²Location: PL=Pore Lining, M=Matrix.**Hydric Soil Indicators:**

☐ Histosol (A1)	☐ Polyvalue Below Surface (S8) (MLRA 147, 148)
☐ Histic Epipedon (A2)	☐ Thin Dark Surface (S9) (MLRA 147, 148)
☐ Black Histic (A3)	☐ Loamy Mucky Mineral (F1) (MLRA 136)
☐ Hydrogen Sulfide (A4)	☐ Loamy Gleyed Matrix (F2)
☐ Stratified Layers (A5)	☒ Depleted Matrix (F3)
☐ 2 cm Muck (A10) (LRR N)	☐ Redox Dark Surface (F6)
☐ Depleted Below Dark Surface (A11)	☐ Depleted Dark Surface (F7)
☐ Thick Dark Surface (A12)	☐ Redox Depressions (F8)
☐ Iron Monosulfide (A18)	☐ Iron-Manganese Masses (F12) (LRR N, MLRA 136)
☐ Sandy Mucky Mineral (S1)	☐ Umbric Surface (F13) (MLRA 122, 136)
☐ Sandy Gleyed Matrix (S4)	☐ Piedmont Floodplain Soils (F19) (MLRA 148)
☐ Sandy Redox (S5)	☐ Red Parent Material (F21) (MLRA 127, 147, 148)
☐ Stripped Matrix (S6)	
☐ Dark Surface (S7)	

Indicators for Problematic Hydric Soils³:

☐ 2 cm Muck (A10) (MLRA 147)
☐ Coast Prairie Redox (A16)
☐ (MLRA 147, 148)
☐ Piedmont Floodplain Soils (F19)
☐ (MLRA 136, 147)
☐ Red Parent Material (F21)
☐ (outside MLRA 127, 147, 148)
☐ Very Shallow Dark Surface (F22)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**
 Type: _____
 Depth (inches): _____
Hydric Soil Present? Yes ☒ No ☐

Remarks:

VEGETATION (Four Strata) – Use scientific names of plants.

 Sampling Point: DCP-5

Tree Stratum (Plot size: <u>30 ft r</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Robinia pseudoacacia</u>	<u>20</u>	☒	<u>FACU</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.00</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
20 = Total Cover				Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>80</u></td> <td>x 4 = <u>320</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>80</u> (A)</td> <td><u>320</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>4.00</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>80</u>	x 4 = <u>320</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>80</u> (A)	<u>320</u> (B)	Prevalence Index = B/A = <u>4.00</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>0</u>	x 2 = <u>0</u>																			
FAC species <u>0</u>	x 3 = <u>0</u>																			
FACU species <u>80</u>	x 4 = <u>320</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>80</u> (A)	<u>320</u> (B)																			
Prevalence Index = B/A = <u>4.00</u>																				
50% of total cover: <u>10.00</u> 20% of total cover: <u>4.00</u>																				
Sapling/Shrub Stratum (Plot size: <u>15 ft r</u>)																				
1. <u>Stratum not present.</u>	_____	_____	_____	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
_____ = Total Cover																				
50% of total cover: _____ 20% of total cover: _____																				
Herb Stratum (Plot size: <u>5 ft r</u>)																				
1. <u>Dactylis glomerata ssp. glomerata</u>	<u>80</u>	☒	_____	Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in height.																
2. <u>Phleum pratense</u>	<u>25</u>	_____	<u>FACU</u>																	
3. <u>Trifolium repens</u>	<u>20</u>	_____	<u>FACU</u>																	
4. <u>Erigeron annuus</u>	<u>15</u>	_____	<u>FACU</u>																	
5. <u>Melica bulbosa</u>	<u>5</u>	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
145 = Total Cover																				
50% of total cover: <u>72.50</u> 20% of total cover: <u>29.00</u>																				
Woody Vine Stratum (Plot size: <u>30 ft r</u>)																				
1. <u>Stratum not present.</u>	_____	_____	_____	Hydrophytic Vegetation Present? Yes <u> </u> No ☒																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
_____ = Total Cover																				
50% of total cover: _____ 20% of total cover: _____																				
Remarks: (Include photo numbers here or on a separate sheet.)																				

SOIL

Sampling Point: DCP-5**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0 - 20	10YR 3/6	100					Sandy Clay Loam	
-								
-								
-								
-								
-								

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.²Location: PL=Pore Lining, M=Matrix.**Hydric Soil Indicators:**

☐ Histosol (A1)	☐ Polyvalue Below Surface (S8) (MLRA 147, 148)
☐ Histic Epipedon (A2)	☐ Thin Dark Surface (S9) (MLRA 147, 148)
☐ Black Histic (A3)	☐ Loamy Mucky Mineral (F1) (MLRA 136)
☐ Hydrogen Sulfide (A4)	☐ Loamy Gleyed Matrix (F2)
☐ Stratified Layers (A5)	☐ Depleted Matrix (F3)
☐ 2 cm Muck (A10) (LRR N)	☐ Redox Dark Surface (F6)
☐ Depleted Below Dark Surface (A11)	☐ Depleted Dark Surface (F7)
☐ Thick Dark Surface (A12)	☐ Redox Depressions (F8)
☐ Iron Monosulfide (A18)	☐ Iron-Manganese Masses (F12) (LRR N, MLRA 136)
☐ Sandy Mucky Mineral (S1)	☐ Umbric Surface (F13) (MLRA 122, 136)
☐ Sandy Gleyed Matrix (S4)	☐ Piedmont Floodplain Soils (F19) (MLRA 148)
☐ Sandy Redox (S5)	☐ Red Parent Material (F21) (MLRA 127, 147, 148)
☐ Stripped Matrix (S6)	
☐ Dark Surface (S7)	

Indicators for Problematic Hydric Soils³:

☐ 2 cm Muck (A10) (MLRA 147)
☐ Coast Prairie Redox (A16)
☐ (MLRA 147, 148)
☐ Piedmont Floodplain Soils (F19)
☐ (MLRA 136, 147)
☐ Red Parent Material (F21)
☐ (outside MLRA 127, 147, 148)
☐ Very Shallow Dark Surface (F22)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**Type: _____
Depth (inches): _____Hydric Soil Present? Yes _____ No ☒

Remarks:

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region See ERDC/EL TR-12-9; the proponent agency is CECW-COR	OMB Control #: 0710-0024, Exp: 09/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: White Clay Point City/County: Avondale Sampling Date: 2025-06-20
Applicant/Owner: Stonewall Capital State: Pennsylvania Sampling Point: DCP-6
Investigator(s): DIA & AJN Section, Township, Range: _____
Landform (hillside, terrace, etc.): Flat Local relief (concave, convex, none): None Slope (%): 3
Subregion (LRR or MLRA): S 148 Lat: 39.8002635 Long: -75.7316547 Datum: NAD 83
Soil Map Unit Name: GIB - Glenville silt loam, 3 to 8 percent slopes NWI classification: _____
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No _____ (If no, explain in Remarks.)
Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No _____
Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes ☒ No _____	Is the Sampled Area within a Wetland? Yes ☒ No _____
Hydric Soil Present? Yes ☒ No _____	
Wetland Hydrology Present? Yes ☒ No _____	

Remarks:

This DCP was established within Wetland 3.

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> ☐ Surface Water (A1) ☐ True Aquatic Plants (B14) ☒ High Water Table (A2) ☐ Hydrogen Sulfide Odor (C1) ☒ Saturation (A3) ☐ Oxidized Rhizospheres on Living Roots (C3) ☐ Water Marks (B1) ☐ Presence of Reduced Iron (C4) ☐ Sediment Deposits (B2) ☐ Recent Iron Reduction in Tilled Soils (C6) ☐ Drift Deposits (B3) ☐ Thin Muck Surface (C7) ☐ Algal Mat or Crust (B4) ☐ Other (Explain in Remarks) ☐ Iron Deposits (B5) ☐ Inundation Visible on Aerial Imagery (B7) ☐ Water-Stained Leaves (B9) ☐ Aquatic Fauna (B13)	<u>Secondary Indicators (minimum of two required)</u> ☐ Surface Soil Cracks (B6) ☐ Sparsely Vegetated Concave Surface (B8) ☐ Drainage Patterns (B10) ☐ Moss Trim Lines (B16) ☐ Dry-Season Water Table (C2) ☐ Crayfish Burrows (C8) ☐ Saturation Visible on Aerial Imagery (C9) ☐ Stunted or Stressed Plants (D1) ☐ Geomorphic Position (D2) ☐ Shallow Aquitard (D3) ☐ Microtopographic Relief (D4) ☒ FAC-Neutral Test (D5)
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Field Observations: Surface Water Present? Yes _____ No ☒ Depth (inches): _____ Water Table Present? Yes ☒ No _____ Depth (inches): <u>0</u> Saturation Present? Yes _____ No ☒ Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes ☒ No _____
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION (Four Strata) – Use scientific names of plants.

 Sampling Point: DCP-6

Tree Stratum (Plot size: <u>30 ft r</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Stratum not present.</u>				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.00</u> (A/B)																
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
_____ = Total Cover				Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>102</u></td> <td>x 2 = <u>204</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>7</u></td> <td>x 4 = <u>28</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>109</u> (A)</td> <td><u>232</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.12</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>102</u>	x 2 = <u>204</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>7</u>	x 4 = <u>28</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>109</u> (A)	<u>232</u> (B)	Prevalence Index = B/A = <u>2.12</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>102</u>	x 2 = <u>204</u>																			
FAC species <u>0</u>	x 3 = <u>0</u>																			
FACU species <u>7</u>	x 4 = <u>28</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>109</u> (A)	<u>232</u> (B)																			
Prevalence Index = B/A = <u>2.12</u>																				
50% of total cover: _____ 20% of total cover: _____																				
Sapling/Shrub Stratum (Plot size: <u>15 ft r</u>)																				
1. <u>Stratum not present.</u>				Hydrophytic Vegetation Indicators: ☒ 1 - Rapid Test for Hydrophytic Vegetation ☒ 2 - Dominance Test is >50% ☒ 3 - Prevalence Index is ≤3.0 ¹ ☐ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ☐ Problematic Hydrophytic Vegetation ¹ (Explain) _____ ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
_____ = Total Cover																				
50% of total cover: _____ 20% of total cover: _____																				
Herb Stratum (Plot size: <u>5 ft r</u>)																				
1. <u>Phragmites australis</u>	<u>90</u>	☒	<u>FACW</u>	Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in height.																
2. <u>Hydrocotyle sibthorpioides</u>	<u>10</u>		<u>FACW</u>																	
3. <u>Erigeron annuus</u>	<u>5</u>		<u>FACU</u>																	
4. <u>Galium mollugo</u>	<u>2</u>		<u>FACU</u>																	
5. <u>Lythrum salicaria</u>	<u>2</u>		<u>FACW</u>																	
6. _____																				
7. _____																				
8. _____																				
9. _____																				
10. _____																				
11. _____																				
_____ = Total Cover																				
50% of total cover: <u>54.50</u> 20% of total cover: <u>21.80</u>																				
Woody Vine Stratum (Plot size: <u>30 ft r</u>)																				
1. <u>Stratum not present.</u>				Hydrophytic Vegetation Present? Yes ☒ No _____																
2. _____																				
3. _____																				
4. _____																				
5. _____																				
_____ = Total Cover																				
50% of total cover: _____ 20% of total cover: _____																				
Remarks: (Include photo numbers here or on a separate sheet.)																				

SOIL

Sampling Point: DCP-6**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0 - 3	10YR 4/1	100					Sandy Loam	
3 - 14	10YR 5/1	90	10YR 6/6	10	C	M	Sandy Loam	
-								
-								
-								
-								

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.²Location: PL=Pore Lining, M=Matrix.**Hydric Soil Indicators:**

☐ Histosol (A1)	☐ Polyvalue Below Surface (S8) (MLRA 147, 148)
☐ Histic Epipedon (A2)	☐ Thin Dark Surface (S9) (MLRA 147, 148)
☐ Black Histic (A3)	☐ Loamy Mucky Mineral (F1) (MLRA 136)
☐ Hydrogen Sulfide (A4)	☐ Loamy Gleyed Matrix (F2)
☐ Stratified Layers (A5)	☒ Depleted Matrix (F3)
☐ 2 cm Muck (A10) (LRR N)	☐ Redox Dark Surface (F6)
☐ Depleted Below Dark Surface (A11)	☐ Depleted Dark Surface (F7)
☐ Thick Dark Surface (A12)	☐ Redox Depressions (F8)
☐ Iron Monosulfide (A18)	☐ Iron-Manganese Masses (F12) (LRR N, MLRA 136)
☐ Sandy Mucky Mineral (S1)	☐ Umbric Surface (F13) (MLRA 122, 136)
☐ Sandy Gleyed Matrix (S4)	☐ Piedmont Floodplain Soils (F19) (MLRA 148)
☐ Sandy Redox (S5)	☐ Red Parent Material (F21) (MLRA 127, 147, 148)
☐ Stripped Matrix (S6)	
☐ Dark Surface (S7)	

Indicators for Problematic Hydric Soils³:

☐ 2 cm Muck (A10) (MLRA 147)
☐ Coast Prairie Redox (A16)
☐ (MLRA 147, 148)
☐ Piedmont Floodplain Soils (F19)
☐ (MLRA 136, 147)
☐ Red Parent Material (F21)
☐ (outside MLRA 127, 147, 148)
☐ Very Shallow Dark Surface (F22)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**
 Type: Gravel
 Depth (inches): 14
Hydric Soil Present? Yes ☒ No ☐

Remarks:

ENG FORM 6116-4. SEP 2024 Eastern Mountains and Piedmont – Version 2.0

VEGETATION (Four Strata) – Use scientific names of plants.

 Sampling Point: DCP-7

Tree Stratum (Plot size: <u>30 ft r</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Stratum not present.</u>				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.00</u> (A/B)																
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
_____ = Total Cover				Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>63</u></td> <td>x 2 = <u>126</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>45</u></td> <td>x 4 = <u>180</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>108</u> (A)</td> <td><u>306</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.83</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>63</u>	x 2 = <u>126</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>45</u>	x 4 = <u>180</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>108</u> (A)	<u>306</u> (B)	Prevalence Index = B/A = <u>2.83</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>63</u>	x 2 = <u>126</u>																			
FAC species <u>0</u>	x 3 = <u>0</u>																			
FACU species <u>45</u>	x 4 = <u>180</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>108</u> (A)	<u>306</u> (B)																			
Prevalence Index = B/A = <u>2.83</u>																				
50% of total cover: _____ 20% of total cover: _____																				
Sapling/Shrub Stratum (Plot size: <u>15 ft r</u>)																				
1. <u>Stratum not present.</u>																				
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
8. _____																				
9. _____																				
_____ = Total Cover																				
50% of total cover: _____ 20% of total cover: _____																				
Herb Stratum (Plot size: <u>5 ft r</u>)																				
1. <u>Phalaris arundinacea</u>	<u>60</u>	✓	<u>FACW</u>	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Galium mollugo</u>	<u>30</u>	✓	<u>FACU</u>																	
3. <u>Asclepias syriaca</u>	<u>15</u>		<u>FACU</u>																	
4. <u>Conium maculatum</u>	<u>3</u>		<u>FACW</u>																	
5. _____																				
6. _____																				
7. _____																				
8. _____																				
9. _____																				
10. _____																				
11. _____																				
<u>108</u> = Total Cover																				
50% of total cover: <u>54.00</u> 20% of total cover: <u>21.60</u>																				
Woody Vine Stratum (Plot size: <u>30 ft r</u>)																				
1. <u>Stratum not present.</u>																				
2. _____																				
3. _____																				
4. _____																				
5. _____																				
_____ = Total Cover																				
50% of total cover: _____ 20% of total cover: _____																				
Remarks: (Include photo numbers here or on a separate sheet.)																				

SOIL

Sampling Point: DCP-7**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0 - 8	10YR 3/2	100					Silt Loam	
8 - 20	10YR 5/3	100					Silt Loam	
-								
-								
-								
-								

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.²Location: PL=Pore Lining, M=Matrix.**Hydric Soil Indicators:**

☐ Histosol (A1)	☐ Polyvalue Below Surface (S8) (MLRA 147, 148)
☐ Histic Epipedon (A2)	☐ Thin Dark Surface (S9) (MLRA 147, 148)
☐ Black Histic (A3)	☐ Loamy Mucky Mineral (F1) (MLRA 136)
☐ Hydrogen Sulfide (A4)	☐ Loamy Gleyed Matrix (F2)
☐ Stratified Layers (A5)	☐ Depleted Matrix (F3)
☐ 2 cm Muck (A10) (LRR N)	☐ Redox Dark Surface (F6)
☐ Depleted Below Dark Surface (A11)	☐ Depleted Dark Surface (F7)
☐ Thick Dark Surface (A12)	☐ Redox Depressions (F8)
☐ Iron Monosulfide (A18)	☐ Iron-Manganese Masses (F12) (LRR N, MLRA 136)
☐ Sandy Mucky Mineral (S1)	☐ Umbric Surface (F13) (MLRA 122, 136)
☐ Sandy Gleyed Matrix (S4)	☐ Piedmont Floodplain Soils (F19) (MLRA 148)
☐ Sandy Redox (S5)	☐ Red Parent Material (F21) (MLRA 127, 147, 148)
☐ Stripped Matrix (S6)	
☐ Dark Surface (S7)	

Indicators for Problematic Hydric Soils³:

☐ 2 cm Muck (A10) (MLRA 147)
☐ Coast Prairie Redox (A16)
☐ (MLRA 147, 148)
☐ Piedmont Floodplain Soils (F19)
☐ (MLRA 136, 147)
☐ Red Parent Material (F21)
☐ (outside MLRA 127, 147, 148)
☐ Very Shallow Dark Surface (F22)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**
 Type: _____
 Depth (inches): _____
Hydric Soil Present? Yes _____ No ☒

Remarks:

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region See ERDC/EL TR-12-9; the proponent agency is CECW-COR	OMB Control #: 0710-0024, Exp: 09/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site:	White Clay Point	City/County:	Avondale	Sampling Date:	2025-07-01
Applicant/Owner:	Stonewall Capital	State:	Pennsylvania	Sampling Point:	DCP-8
Investigator(s):	DIA & AJN	Section, Township, Range:			
Landform (hillside, terrace, etc.):	Flat	Local relief (concave, convex, none):	None	Slope (%):	3
Subregion (LRR or MLRA):		Lat:	39.7973723	Long:	-75.7304737
		Datum:	NAD 83		
Soil Map Unit Name:	GIB - Glenville silt loam, 3 to 8 percent slopes		NWI classification:		
Are climatic / hydrologic conditions on the site typical for this time of year?		Yes	☒	No	☐ (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed?		Are "Normal Circumstances" present?		Yes	☒ No ☐
Are Vegetation, Soil, or Hydrology naturally problematic?		(If needed, explain any answers in Remarks.)			

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes	☐	No	☒	Is the Sampled Area within a Wetland?	Yes	☐	No	☒
Hydric Soil Present?	Yes	☐	No	☒					
Wetland Hydrology Present?	Yes	☐	No	☒					
Remarks: This DCP was established west of Wetlands 7 and 8 to document upland conditions.									

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) ☐ Surface Water (A1) ☐ High Water Table (A2) ☐ Saturation (A3) ☐ Water Marks (B1) ☐ Sediment Deposits (B2) ☐ Drift Deposits (B3) ☐ Algal Mat or Crust (B4) ☐ Iron Deposits (B5) ☐ Inundation Visible on Aerial Imagery (B7) ☐ Water-Stained Leaves (B9) ☐ Aquatic Fauna (B13) ☐ True Aquatic Plants (B14) ☐ Hydrogen Sulfide Odor (C1) ☐ Oxidized Rhizospheres on Living Roots (C3) ☐ Presence of Reduced Iron (C4) ☐ Recent Iron Reduction in Tilled Soils (C6) ☐ Thin Muck Surface (C7) ☐ Other (Explain in Remarks)
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VEGETATION (Four Strata) – Use scientific names of plants.

 Sampling Point: DCP-8

Tree Stratum (Plot size: <u>30 ft r</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Juglans nigra</u>	<u>20</u>	☒	<u>FACU</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66.66</u> (A/B)																
2. <u>Salix nigra</u>	<u>5</u>	☒	<u>OBL</u>																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
25 =Total Cover				Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>5</u></td> <td>x 1 = <u>5</u></td> </tr> <tr> <td>FACW species <u>70</u></td> <td>x 2 = <u>140</u></td> </tr> <tr> <td>FAC species <u>1</u></td> <td>x 3 = <u>3</u></td> </tr> <tr> <td>FACU species <u>50</u></td> <td>x 4 = <u>200</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>126</u> (A)</td> <td><u>348</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.76</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>5</u>	x 1 = <u>5</u>	FACW species <u>70</u>	x 2 = <u>140</u>	FAC species <u>1</u>	x 3 = <u>3</u>	FACU species <u>50</u>	x 4 = <u>200</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>126</u> (A)	<u>348</u> (B)	Prevalence Index = B/A = <u>2.76</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>5</u>	x 1 = <u>5</u>																			
FACW species <u>70</u>	x 2 = <u>140</u>																			
FAC species <u>1</u>	x 3 = <u>3</u>																			
FACU species <u>50</u>	x 4 = <u>200</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>126</u> (A)	<u>348</u> (B)																			
Prevalence Index = B/A = <u>2.76</u>																				
50% of total cover: <u>12.50</u> 20% of total cover: <u>5.00</u>																				
Sapling/Shrub Stratum (Plot size: <u>15 ft r</u>)																				
1. <u>Stratum not present.</u>	_____	_____	_____	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation ☒ <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u>_____</u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
_____ =Total Cover																				
50% of total cover: _____ 20% of total cover: _____																				
Herb Stratum (Plot size: <u>5 ft r</u>)																				
1. <u>Phragmites australis</u>	<u>70</u>	☒	<u>FACW</u>	Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in height.																
2. <u>Parthenocissus quinquefolia</u>	<u>15</u>	_____	<u>FACU</u>																	
3. <u>Alliaria petiolata</u>	<u>5</u>	_____	<u>FACU</u>																	
4. <u>Humulus japonicus</u>	<u>5</u>	_____	<u>FACU</u>																	
5. <u>Lonicera japonica</u>	<u>5</u>	_____	<u>FACU</u>																	
6. <u>Lindera benzoin</u>	<u>1</u>	_____	<u>FAC</u>																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
101 =Total Cover																				
50% of total cover: <u>50.50</u> 20% of total cover: <u>20.20</u>																				
Woody Vine Stratum (Plot size: <u>30 ft r</u>)																				
1. <u>Stratum not present.</u>	_____	_____	_____	Hydrophytic Vegetation Present? Yes _____ No ☒																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
_____ =Total Cover																				
50% of total cover: _____ 20% of total cover: _____																				
Remarks: (Include photo numbers here or on a separate sheet.)																				

SOIL

Sampling Point: DCP-8**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
1 - 12	10YR 4/1	100					Silt Loam	
-								
-								
-								
-								
-								

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.²Location: PL=Pore Lining, M=Matrix.**Hydric Soil Indicators:**

☐ Histosol (A1)	☐ Polyvalue Below Surface (S8) (MLRA 147, 148)
☐ Histic Epipedon (A2)	☐ Thin Dark Surface (S9) (MLRA 147, 148)
☐ Black Histic (A3)	☐ Loamy Mucky Mineral (F1) (MLRA 136)
☐ Hydrogen Sulfide (A4)	☐ Loamy Gleyed Matrix (F2)
☐ Stratified Layers (A5)	☐ Depleted Matrix (F3)
☐ 2 cm Muck (A10) (LRR N)	☐ Redox Dark Surface (F6)
☐ Depleted Below Dark Surface (A11)	☐ Depleted Dark Surface (F7)
☐ Thick Dark Surface (A12)	☐ Redox Depressions (F8)
☐ Iron Monosulfide (A18)	☐ Iron-Manganese Masses (F12) (LRR N, MLRA 136)
☐ Sandy Mucky Mineral (S1)	☐ Umbric Surface (F13) (MLRA 122, 136)
☐ Sandy Gleyed Matrix (S4)	☐ Piedmont Floodplain Soils (F19) (MLRA 148)
☐ Sandy Redox (S5)	☐ Red Parent Material (F21) (MLRA 127, 147, 148)
☐ Stripped Matrix (S6)	
☐ Dark Surface (S7)	

Indicators for Problematic Hydric Soils³:

☐ 2 cm Muck (A10) (MLRA 147)
☐ Coast Prairie Redox (A16)
☐ (MLRA 147, 148)
☐ Piedmont Floodplain Soils (F19)
☐ (MLRA 136, 147)
☐ Red Parent Material (F21)
☐ (outside MLRA 127, 147, 148)
☐ Very Shallow Dark Surface (F22)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**
 Type: Rock
 Depth (inches): 12
Hydric Soil Present? Yes ☐ No ☒

Remarks:

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region See ERDC/EL TR-12-9; the proponent agency is CECW-COR	OMB Control #: 0710-0024, Exp: 09/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: White Clay Point City/County: Avondale Sampling Date: 2025-07-02
Applicant/Owner: Stonewall Capital State: Pennsylvania Sampling Point: DCP-9
Investigator(s): DIA & AJN Section, Township, Range: _____
Landform (hillside, terrace, etc.): Depression Local relief (concave, convex, none): None Slope (%): 8
Subregion (LRR or MLRA): S 148 Lat: 39.7945125 Long: -75.7394652 Datum: NAD 83
Soil Map Unit Name: GgC - Glenelg silt loam, 8 to 15 percent slopes NWI classification: _____
Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No ☒ (If no, explain in Remarks.)
Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No ☒
Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes ☒ No _____	Is the Sampled Area within a Wetland? Yes ☒ No _____
Hydric Soil Present? Yes ☒ No _____	
Wetland Hydrology Present? Yes ☒ No _____	

Remarks:

This DCP was established within Wetland 11.

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> ____ Surface Water (A1) ____ True Aquatic Plants (B14) ____ High Water Table (A2) ____ Hydrogen Sulfide Odor (C1) ____ Saturation (A3) ____ Oxidized Rhizospheres on Living Roots (C3) ____ Water Marks (B1) ____ Presence of Reduced Iron (C4) ____ Sediment Deposits (B2) ____ Recent Iron Reduction in Tilled Soils (C6) ____ Drift Deposits (B3) ____ Thin Muck Surface (C7) ____ Algal Mat or Crust (B4) ____ Other (Explain in Remarks) ____ Iron Deposits (B5) ____ Inundation Visible on Aerial Imagery (B7) ☒ Water-Stained Leaves (B9) ____ Aquatic Fauna (B13)	<u>Secondary Indicators (minimum of two required)</u> ____ Surface Soil Cracks (B6) ____ Sparsely Vegetated Concave Surface (B8) ____ Drainage Patterns (B10) ____ Moss Trim Lines (B16) ____ Dry-Season Water Table (C2) ____ Crayfish Burrows (C8) ____ Saturation Visible on Aerial Imagery (C9) ____ Stunted or Stressed Plants (D1) ☒ Geomorphic Position (D2) ____ Shallow Aquitard (D3) ____ Microtopographic Relief (D4) ☒ FAC-Neutral Test (D5)
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Field Observations: Surface Water Present? Yes _____ No ☒ Depth (inches): _____ Water Table Present? Yes _____ No ☒ Depth (inches): _____ Saturation Present? Yes _____ No ☒ Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes ☒ No _____
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION (Four Strata) – Use scientific names of plants.

 Sampling Point: DCP-9

Tree Stratum (Plot size: <u>30 ft r</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Acer rubrum</u>	<u>40</u>	☒	<u>FAC</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.00</u> (A/B)																
2. <u>Platanus occidentalis</u>	<u>30</u>	☒	<u>FACW</u>																	
3. _____	_____																			
4. _____	_____																			
5. _____	_____																			
6. _____	_____																			
7. _____	_____																			
	<u>70</u>	=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <thead> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> </thead> <tbody> <tr> <td>OBL species <u>45</u></td> <td>x 1 = <u>45</u></td> </tr> <tr> <td>FACW species <u>105</u></td> <td>x 2 = <u>210</u></td> </tr> <tr> <td>FAC species <u>40</u></td> <td>x 3 = <u>120</u></td> </tr> <tr> <td>FACU species <u>20</u></td> <td>x 4 = <u>80</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>210</u> (A)</td> <td><u>455</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.16</u></td> </tr> </tbody> </table>	Total % Cover of:	Multiply by:	OBL species <u>45</u>	x 1 = <u>45</u>	FACW species <u>105</u>	x 2 = <u>210</u>	FAC species <u>40</u>	x 3 = <u>120</u>	FACU species <u>20</u>	x 4 = <u>80</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>210</u> (A)	<u>455</u> (B)	Prevalence Index = B/A = <u>2.16</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>45</u>	x 1 = <u>45</u>																			
FACW species <u>105</u>	x 2 = <u>210</u>																			
FAC species <u>40</u>	x 3 = <u>120</u>																			
FACU species <u>20</u>	x 4 = <u>80</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>210</u> (A)	<u>455</u> (B)																			
Prevalence Index = B/A = <u>2.16</u>																				
50% of total cover: <u>35.00</u>		20% of total cover: <u>14.00</u>																		
Sapling/Shrub Stratum (Plot size: <u>15 ft r</u>)																				
1. <u>Stratum not present.</u>				Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation ☒ <u>2</u> - Dominance Test is >50% ☒ <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
8. _____																				
9. _____																				
		=Total Cover																		
50% of total cover: _____		20% of total cover: _____																		
Herb Stratum (Plot size: <u>5 ft r</u>)																				
1. <u>Phragmites australis</u>	<u>50</u>	☒	<u>FACW</u>	Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in height.																
2. <u>Symplocarpus foetidus</u>	<u>45</u>	☒	<u>OBL</u>																	
3. <u>Onoclea sensibilis</u>	<u>25</u>		<u>FACW</u>																	
4. <u>Rosa multiflora</u>	<u>20</u>		<u>FACU</u>																	
5. _____																				
6. _____																				
7. _____																				
8. _____																				
9. _____																				
10. _____																				
11. _____																				
	<u>140</u>	=Total Cover																		
50% of total cover: <u>70.00</u>		20% of total cover: <u>28.00</u>																		
Woody Vine Stratum (Plot size: <u>30 ft r</u>)																				
1. <u>Stratum not present.</u>				Hydrophytic Vegetation Present? Yes ☒ No _____																
2. _____																				
3. _____																				
4. _____																				
5. _____																				
		=Total Cover																		
50% of total cover: _____		20% of total cover: _____																		
Remarks: (Include photo numbers here or on a separate sheet.)																				

SOIL

Sampling Point: DCP-9**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0 - 3	10YR 4/2	90	10YR 6/6	10	C	M	Silt Loam	
3 - 20	10YR 5/1	80	10YR 4/6	20	C	M	Silt Loam	
-								
-								
-								
-								

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.²Location: PL=Pore Lining, M=Matrix.**Hydric Soil Indicators:**

- | | |
|--|--|
| ☐ Histosol (A1) | ☐ Polyvalue Below Surface (S8) (MLRA 147, 148) |
| ☐ Histic Epipedon (A2) | ☐ Thin Dark Surface (S9) (MLRA 147, 148) |
| ☐ Black Histic (A3) | ☐ Loamy Mucky Mineral (F1) (MLRA 136) |
| ☐ Hydrogen Sulfide (A4) | ☐ Loamy Gleyed Matrix (F2) |
| ☐ Stratified Layers (A5) | ☒ Depleted Matrix (F3) |
| ☐ 2 cm Muck (A10) (LRR N) | ☐ Redox Dark Surface (F6) |
| ☐ Depleted Below Dark Surface (A11) | ☐ Depleted Dark Surface (F7) |
| ☐ Thick Dark Surface (A12) | ☒ Redox Depressions (F8) |
| ☐ Iron Monosulfide (A18) | ☐ Iron-Manganese Masses (F12) (LRR N, MLRA 136) |
| ☐ Sandy Mucky Mineral (S1) | ☐ Umbric Surface (F13) (MLRA 122, 136) |
| ☐ Sandy Gleyed Matrix (S4) | ☐ Piedmont Floodplain Soils (F19) (MLRA 148) |
| ☐ Sandy Redox (S5) | ☐ Red Parent Material (F21) (MLRA 127, 147, 148) |
| ☐ Stripped Matrix (S6) | |
| ☐ Dark Surface (S7) | |

Indicators for Problematic Hydric Soils³:

- | |
|--|
| ☐ 2 cm Muck (A10) (MLRA 147) |
| ☐ Coast Prairie Redox (A16) |
| ☐ (MLRA 147, 148) |
| ☐ Piedmont Floodplain Soils (F19) |
| ☐ (MLRA 136, 147) |
| ☐ Red Parent Material (F21) |
| ☐ (outside MLRA 127, 147, 148) |
| ☐ Very Shallow Dark Surface (F22) |
| ☐ Other (Explain in Remarks) |

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**
 Type: _____
 Depth (inches): _____
Hydric Soil Present? Yes ☒ No ☐

Remarks:

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region See ERDC/EL TR-12-9; the proponent agency is CECW-COR	OMB Control #: 0710-0024, Exp: 09/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: White Clay Point City/County: Avondale Sampling Date: 2025-07-02
Applicant/Owner: Stonewall Capital State: Pennsylvania Sampling Point: DCP-10
Investigator(s): DIA & AJN Section, Township, Range: _____
Landform (hillside, terrace, etc.): _____ Local relief (concave, convex, none): _____ Slope (%): _____
Subregion (LRR or MLRA): _____ Lat: 39.7899324 Long: -75.7367504 Datum: NAD 83
Soil Map Unit Name: GgB - Glenelg silt loam, 3 to 8 percent slopes NWI classification: _____
Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No ☒ (If no, explain in Remarks.)
Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No ☒
Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No ☒	Is the Sampled Area within a Wetland? Yes _____ No ☒
Hydric Soil Present? Yes ☒ No _____	
Wetland Hydrology Present? Yes _____ No ☒	

Remarks:

This DCP was established west of Wetland 12 to document upland conditions.

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> ____ Surface Water (A1) ____ True Aquatic Plants (B14) ____ High Water Table (A2) ____ Hydrogen Sulfide Odor (C1) ____ Saturation (A3) ____ Oxidized Rhizospheres on Living Roots (C3) ____ Water Marks (B1) ____ Presence of Reduced Iron (C4) ____ Sediment Deposits (B2) ____ Recent Iron Reduction in Tilled Soils (C6) ____ Drift Deposits (B3) ____ Thin Muck Surface (C7) ____ Algal Mat or Crust (B4) ____ Other (Explain in Remarks) ____ Iron Deposits (B5) ____ Inundation Visible on Aerial Imagery (B7) ____ Water-Stained Leaves (B9) ____ Aquatic Fauna (B13)	<u>Secondary Indicators (minimum of two required)</u> ____ Surface Soil Cracks (B6) ____ Sparsely Vegetated Concave Surface (B8) ____ Drainage Patterns (B10) ____ Moss Trim Lines (B16) ____ Dry-Season Water Table (C2) ____ Crayfish Burrows (C8) ____ Saturation Visible on Aerial Imagery (C9) ____ Stunted or Stressed Plants (D1) ____ Geomorphic Position (D2) ____ Shallow Aquitard (D3) ____ Microtopographic Relief (D4) ____ FAC-Neutral Test (D5)
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Field Observations: Surface Water Present? Yes _____ No ☒ Depth (inches): _____ Water Table Present? Yes _____ No ☒ Depth (inches): _____ Saturation Present? Yes _____ No ☒ Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No ☒
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION (Four Strata) – Use scientific names of plants.

 Sampling Point: DCP-10

Tree Stratum (Plot size: <u>30 ft r</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Juglans nigra</u>	<u>40</u>	☒	<u>FACU</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.00</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
<u>40</u> =Total Cover				Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>1</u></td> <td>x 2 = <u>2</u></td> </tr> <tr> <td>FAC species <u>80</u></td> <td>x 3 = <u>240</u></td> </tr> <tr> <td>FACU species <u>55</u></td> <td>x 4 = <u>220</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>136</u> (A)</td> <td><u>462</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>3.39</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>1</u>	x 2 = <u>2</u>	FAC species <u>80</u>	x 3 = <u>240</u>	FACU species <u>55</u>	x 4 = <u>220</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>136</u> (A)	<u>462</u> (B)	Prevalence Index = B/A = <u>3.39</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>1</u>	x 2 = <u>2</u>																			
FAC species <u>80</u>	x 3 = <u>240</u>																			
FACU species <u>55</u>	x 4 = <u>220</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>136</u> (A)	<u>462</u> (B)																			
Prevalence Index = B/A = <u>3.39</u>																				
50% of total cover: <u>20.00</u> 20% of total cover: <u>8.00</u>																				
Sapling/Shrub Stratum (Plot size: <u>15 ft r</u>)																				
1. <u>Elaeagnus umbellata</u>	<u>15</u>	☒		Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
<u>15</u> =Total Cover																				
50% of total cover: <u>7.50</u> 20% of total cover: <u>3.00</u>																				
Herb Stratum (Plot size: <u>5 ft r</u>)																				
1. <u>Microstegium vimineum</u>	<u>80</u>	☒	<u>FAC</u>	Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in height.																
2. <u>Urtica dioica</u>	<u>10</u>	_____	<u>FACU</u>																	
3. <u>Ipomoea cairica</u>	<u>5</u>	_____	<u>FACU</u>																	
4. <u>Persicaria maculosa</u>	<u>1</u>	_____	<u>FACW</u>																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
<u>96</u> =Total Cover																				
50% of total cover: <u>48.00</u> 20% of total cover: <u>19.20</u>																				
Woody Vine Stratum (Plot size: <u>30 ft r</u>)																				
1. <u>Stratum not present.</u>	_____	_____	_____	Hydrophytic Vegetation Present? Yes <u> </u> No ☒																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
_____ =Total Cover																				
50% of total cover: _____ 20% of total cover: _____																				
Remarks: (Include photo numbers here or on a separate sheet.)																				

SOIL

Sampling Point: DCP-10**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0 - 20	10YR 4/2	95	10YR 5/8	5	C	M	Sandy Clay Loam	
-								
-								
-								
-								
-								

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.²Location: PL=Pore Lining, M=Matrix.**Hydric Soil Indicators:**

☐ Histosol (A1)	☐ Polyvalue Below Surface (S8) (MLRA 147, 148)
☐ Histic Epipedon (A2)	☐ Thin Dark Surface (S9) (MLRA 147, 148)
☐ Black Histic (A3)	☐ Loamy Mucky Mineral (F1) (MLRA 136)
☐ Hydrogen Sulfide (A4)	☐ Loamy Gleyed Matrix (F2)
☐ Stratified Layers (A5)	☒ Depleted Matrix (F3)
☐ 2 cm Muck (A10) (LRR N)	☐ Redox Dark Surface (F6)
☐ Depleted Below Dark Surface (A11)	☐ Depleted Dark Surface (F7)
☐ Thick Dark Surface (A12)	☐ Redox Depressions (F8)
☐ Iron Monosulfide (A18)	☐ Iron-Manganese Masses (F12) (LRR N, MLRA 136)
☐ Sandy Mucky Mineral (S1)	☐ Umbric Surface (F13) (MLRA 122, 136)
☐ Sandy Gleyed Matrix (S4)	☐ Piedmont Floodplain Soils (F19) (MLRA 148)
☐ Sandy Redox (S5)	☐ Red Parent Material (F21) (MLRA 127, 147, 148)
☐ Stripped Matrix (S6)	
☐ Dark Surface (S7)	

Indicators for Problematic Hydric Soils³:

☐ 2 cm Muck (A10) (MLRA 147)
☐ Coast Prairie Redox (A16)
☐ (MLRA 147, 148)
☐ Piedmont Floodplain Soils (F19)
☐ (MLRA 136, 147)
☐ Red Parent Material (F21)
☐ (outside MLRA 127, 147, 148)
☐ Very Shallow Dark Surface (F22)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**
 Type: _____
 Depth (inches): _____
Hydric Soil Present? Yes ☒ No ☐

Remarks:

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region See ERDC/EL TR-12-9; the proponent agency is CECW-COR	OMB Control #: 0710-0024, Exp: 09/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: White Clay Point City/County: Avondale Sampling Date: 2025-07-22
Applicant/Owner: Stonewall Capital State: Pennsylvania Sampling Point: DCP-11
Investigator(s): AJN Section, Township, Range: Landenburg
Landform (hillside, terrace, etc.): Palustrine Local relief (concave, convex, none): Concave Slope (%): 0-2
Subregion (LRR or MLRA): S 148 Lat: 39.790382 Long: -75.735966 Datum: NAD 83
Soil Map Unit Name: Odorthents, Schist, and Gneiss, 0-8% slopes (UdsB) NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
Are Vegetation ☐, Soil ☐, or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes ☒ No ☐ Hydric Soil Present? Yes ☒ No ☐ Wetland Hydrology Present? Yes ☒ No ☐	Is the Sampled Area within a Wetland? Yes ☒ No ☐
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Remarks:
This DCP was established within Wetland 12

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> ☐ Surface Water (A1) ☐ True Aquatic Plants (B14) ☒ High Water Table (A2) ☐ Hydrogen Sulfide Odor (C1) ☒ Saturation (A3) ☐ Oxidized Rhizospheres on Living Roots (C3) ☐ Water Marks (B1) ☐ Presence of Reduced Iron (C4) ☐ Sediment Deposits (B2) ☐ Recent Iron Reduction in Tilled Soils (C6) ☐ Drift Deposits (B3) ☐ Thin Muck Surface (C7) ☐ Algal Mat or Crust (B4) ☐ Other (Explain in Remarks) ☐ Iron Deposits (B5) ☐ Inundation Visible on Aerial Imagery (B7) ☒ Water-Stained Leaves (B9) ☐ Aquatic Fauna (B13)	<u>Secondary Indicators (minimum of two required)</u> ☒ Surface Soil Cracks (B6) ☒ Sparsely Vegetated Concave Surface (B8) ☐ Drainage Patterns (B10) ☐ Moss Trim Lines (B16) ☐ Dry-Season Water Table (C2) ☐ Crayfish Burrows (C8) ☐ Saturation Visible on Aerial Imagery (C9) ☐ Stunted or Stressed Plants (D1) ☐ Geomorphic Position (D2) ☐ Shallow Aquitard (D3) ☐ Microtopographic Relief (D4) ☒ FAC-Neutral Test (D5)
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Field Observations: Surface Water Present? Yes ☐ No ☒ Depth (inches): Water Table Present? Yes ☒ No ☐ Depth (inches): <u>12</u> Saturation Present? Yes ☒ No ☐ Depth (inches): <u>0</u> (includes capillary fringe)	Wetland Hydrology Present? Yes ☒ No ☐
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION (Four Strata) – Use scientific names of plants.

 Sampling Point: DCP-11

Tree Stratum (Plot size: <u>30 ft r</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Acer saccharinum</u>	<u>60</u>	☒	<u>FACW</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.00</u> (A/B)																
2. <u>Acer negundo</u>	<u>10</u>		<u>FAC</u>																	
3. <u>Juglans nigra</u>	<u>10</u>		<u>FACU</u>																	
4. _____	_____		_____																	
5. _____	_____		_____																	
6. _____	_____		_____																	
7. _____	_____		_____																	
<u>80</u> =Total Cover				Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>79</u></td> <td>x 2 = <u>158</u></td> </tr> <tr> <td>FAC species <u>132</u></td> <td>x 3 = <u>396</u></td> </tr> <tr> <td>FACU species <u>202</u></td> <td>x 4 = <u>808</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>413</u> (A)</td> <td><u>1362</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>3.29</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>79</u>	x 2 = <u>158</u>	FAC species <u>132</u>	x 3 = <u>396</u>	FACU species <u>202</u>	x 4 = <u>808</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>413</u> (A)	<u>1362</u> (B)	Prevalence Index = B/A = <u>3.29</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>79</u>	x 2 = <u>158</u>																			
FAC species <u>132</u>	x 3 = <u>396</u>																			
FACU species <u>202</u>	x 4 = <u>808</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>413</u> (A)	<u>1362</u> (B)																			
Prevalence Index = B/A = <u>3.29</u>																				
50% of total cover: <u>40.00</u> 20% of total cover: <u>16.00</u>																				
Sapling/Shrub Stratum (Plot size: <u>15 ft r</u>)																				
1. <u>Lindera benzoin</u>	<u>40</u>	☒	<u>FAC</u>	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation ☒ <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Rosa multiflora</u>	<u>10</u>		<u>FACU</u>																	
3. <u>Lonicera maackii</u>	<u>10</u>		_____																	
4. _____	_____		_____																	
5. _____	_____		_____																	
6. _____	_____		_____																	
7. _____	_____		_____																	
<u>60</u> =Total Cover																				
50% of total cover: <u>30.00</u> 20% of total cover: <u>12.00</u>																				
Herb Stratum (Plot size: <u>5 ft r</u>)																				
1. <u>Microstegium vimineum</u>	<u>70</u>	☒	<u>FAC</u>	Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in height.																
2. <u>Persicaria maculosa</u>	<u>15</u>		<u>FACW</u>																	
3. <u>Lindera benzoin</u>	<u>10</u>		<u>FAC</u>																	
4. <u>Arisaema triphyllum</u>	<u>2</u>		<u>FACW</u>																	
5. <u>Boehmeria cylindrica</u>	<u>2</u>		<u>FACW</u>																	
6. <u>Toxicodendron radicans</u>	<u>2</u>		<u>FAC</u>																	
7. _____	_____		<u>FACU</u>																	
8. _____	_____		_____																	
9. _____	_____		_____																	
10. _____	_____		_____																	
11. _____	_____		_____																	
<u>101</u> =Total Cover																				
50% of total cover: <u>50.50</u> 20% of total cover: <u>20.20</u>																				
Woody Vine Stratum (Plot size: <u>30 ft r</u>)																				
1. <u>Rubus phoenicolasius</u>	<u>2</u>		<u>FACU</u>	Hydrophytic Vegetation Present? Yes ☒ No _____																
2. _____	_____		_____																	
3. _____	_____		_____																	
4. _____	_____		_____																	
5. _____	_____		_____																	
<u>2</u> =Total Cover																				
50% of total cover: <u>1.00</u> 20% of total cover: <u>0.40</u>																				
Remarks: (Include photo numbers here or on a separate sheet.)																				

SOIL

Sampling Point: DCP-11

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0 - 4	10YR 3/2	100					Sandy Clay Loam	
4 - 12	10YR 4/1	85	10YR 7/2	15	C	M	Sandy Clay Loam	
12 - 18	10YR 6/2	90	10YR 7/6	10	C	M	Silty Clay Loam	
-								
-								
-								

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.²Location: PL=Pore Lining, M=Matrix.**Hydric Soil Indicators:**

☐ Histosol (A1)	☐ Polyvalue Below Surface (S8) (MLRA 147, 148)
☐ Histic Epipedon (A2)	☐ Thin Dark Surface (S9) (MLRA 147, 148)
☐ Black Histic (A3)	☐ Loamy Mucky Mineral (F1) (MLRA 136)
☐ Hydrogen Sulfide (A4)	☐ Loamy Gleyed Matrix (F2)
☐ Stratified Layers (A5)	☒ Depleted Matrix (F3)
☐ 2 cm Muck (A10) (LRR N)	☐ Redox Dark Surface (F6)
☐ Depleted Below Dark Surface (A11)	☐ Depleted Dark Surface (F7)
☐ Thick Dark Surface (A12)	☐ Redox Depressions (F8)
☐ Iron Monosulfide (A18)	☐ Iron-Manganese Masses (F12) (LRR N, MLRA 136)
☐ Sandy Mucky Mineral (S1)	☐ Umbric Surface (F13) (MLRA 122, 136)
☐ Sandy Gleyed Matrix (S4)	☐ Piedmont Floodplain Soils (F19) (MLRA 148)
☐ Sandy Redox (S5)	☐ Red Parent Material (F21) (MLRA 127, 147, 148)
☐ Stripped Matrix (S6)	
☐ Dark Surface (S7)	

Indicators for Problematic Hydric Soils³:

☐ 2 cm Muck (A10) (MLRA 147)
☐ Coast Prairie Redox (A16)
☐ (MLRA 147, 148)
☐ Piedmont Floodplain Soils (F19)
☐ (MLRA 136, 147)
☐ Red Parent Material (F21)
☐ (outside MLRA 127, 147, 148)
☐ Very Shallow Dark Surface (F22)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**
 Type: _____
 Depth (inches): _____
Hydric Soil Present? Yes ☒ No ☐

Remarks:

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region See ERDC/EL TR-12-9; the proponent agency is CECW-COR	OMB Control #: 0710-0024, Exp: 09/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
--	--

Project/Site:	White Clay Point	City/County:	Avondale	Sampling Date:	2025-07-23
Applicant/Owner:	Stonewall Capital	State:	Pennsylvania	Sampling Point:	DCP-12
Investigator(s):	AJN	Section, Township, Range:			
Landform (hillside, terrace, etc.):	Palustrine	Local relief (concave, convex, none):	Concave	Slope (%):	1-2
Subregion (LRR or MLRA):	S 148	Lat:	39.798118	Long:	-75.72956
		Datum:	NAD 83		
Soil Map Unit Name:	Glenelg Silt Loam, 8-15% slopes	NWI classification:	PFO		
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☐ No ☒ (If no, explain in Remarks.)					
Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐					
Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)					

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ☒ No ☐	Is the Sampled Area within a Wetland?	Yes ☒ No ☐
Hydric Soil Present?	Yes ☒ No ☐		
Wetland Hydrology Present?	Yes ☒ No ☐		

Remarks:

This DCP was established within Wetland 5

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) ☒ Surface Water (A1) ☒ High Water Table (A2) ☒ Saturation (A3) ☐ Water Marks (B1) ☐ Sediment Deposits (B2) ☐ Drift Deposits (B3) ☐ Algal Mat or Crust (B4) ☐ Iron Deposits (B5) ☐ Inundation Visible on Aerial Imagery (B7) ☐ Water-Stained Leaves (B9) ☐ Aquatic Fauna (B13) ☐ True Aquatic Plants (B14) ☐ Hydrogen Sulfide Odor (C1) ☐ Oxidized Rhizospheres on Living Roots (C3) ☐ Presence of Reduced Iron (C4) ☐ Recent Iron Reduction in Tilled Soils (C6) ☐ Thin Muck Surface (C7) ☐ Other (Explain in Remarks)

VEGETATION (Four Strata) – Use scientific names of plants.

 Sampling Point: DCP-12

Tree Stratum (Plot size: <u>30 ft r</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.00</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
=Total Cover				Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>90</u></td> <td>x 2 = <u>180</u></td> </tr> <tr> <td>FAC species <u>5</u></td> <td>x 3 = <u>15</u></td> </tr> <tr> <td>FACU species <u>5</u></td> <td>x 4 = <u>20</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>100</u> (A)</td> <td><u>215</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.15</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>90</u>	x 2 = <u>180</u>	FAC species <u>5</u>	x 3 = <u>15</u>	FACU species <u>5</u>	x 4 = <u>20</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>100</u> (A)	<u>215</u> (B)	Prevalence Index = B/A = <u>2.15</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>90</u>	x 2 = <u>180</u>																			
FAC species <u>5</u>	x 3 = <u>15</u>																			
FACU species <u>5</u>	x 4 = <u>20</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>100</u> (A)	<u>215</u> (B)																			
Prevalence Index = B/A = <u>2.15</u>																				
50% of total cover: _____ 20% of total cover: _____																				
Sapling/Shrub Stratum (Plot size: <u>15 ft r</u>)																				
1. <u>Acer negundo</u>	<u>5</u>	☒	<u>FAC</u>																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
5 = Total Cover																				
50% of total cover: <u>2.50</u> 20% of total cover: <u>1.00</u>																				
Herb Stratum (Plot size: <u>5 ft r</u>)																				
1. <u>Phalaris arundinacea</u>	<u>80</u>	☒	<u>FACW</u>																	
2. <u>Lythrum salicaria</u>	<u>10</u>	_____	<u>FACW</u>																	
3. <u>Humulus japonicus</u>	<u>5</u>	_____	<u>FACU</u>																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
95 = Total Cover																				
50% of total cover: <u>47.50</u> 20% of total cover: <u>19.00</u>																				
Woody Vine Stratum (Plot size: <u>30 ft r</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
=Total Cover																				
50% of total cover: _____ 20% of total cover: _____																				
Remarks: (Include photo numbers here or on a separate sheet.)																				

Definitions of Four Vegetation Strata:

Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody Vine – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ☒ No _____

SOIL

Sampling Point: DCP-12**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
1 - 4	10YR 3/1	95	10YR 5/8	5	C	M	Silty Clay	
4 - 11	10YR 4/1	80	7.5YR 5/8	20	C	M	Silty Clay	
11 - 20	10YR 3/2	70	7.5YR 5/8	30	C	M	Silty Clay	
-								
-								
-								

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.²Location: PL=Pore Lining, M=Matrix.**Hydric Soil Indicators:**

☐ Histosol (A1)	☐ Polyvalue Below Surface (S8) (MLRA 147, 148)
☐ Histic Epipedon (A2)	☐ Thin Dark Surface (S9) (MLRA 147, 148)
☐ Black Histic (A3)	☐ Loamy Mucky Mineral (F1) (MLRA 136)
☐ Hydrogen Sulfide (A4)	☐ Loamy Gleyed Matrix (F2)
☐ Stratified Layers (A5)	☒ Depleted Matrix (F3)
☐ 2 cm Muck (A10) (LRR N)	☐ Redox Dark Surface (F6)
☐ Depleted Below Dark Surface (A11)	☐ Depleted Dark Surface (F7)
☐ Thick Dark Surface (A12)	☐ Redox Depressions (F8)
☐ Iron Monosulfide (A18)	☐ Iron-Manganese Masses (F12) (LRR N, MLRA 136)
☐ Sandy Mucky Mineral (S1)	☐ Umbric Surface (F13) (MLRA 122, 136)
☐ Sandy Gleyed Matrix (S4)	☐ Piedmont Floodplain Soils (F19) (MLRA 148)
☐ Sandy Redox (S5)	☐ Red Parent Material (F21) (MLRA 127, 147, 148)
☐ Stripped Matrix (S6)	
☐ Dark Surface (S7)	

Indicators for Problematic Hydric Soils³:

☐ 2 cm Muck (A10) (MLRA 147)
☐ Coast Prairie Redox (A16) (MLRA 147, 148)
☐ Piedmont Floodplain Soils (F19) (MLRA 136, 147)
☐ Red Parent Material (F21) (outside MLRA 127, 147, 148)
☐ Very Shallow Dark Surface (F22)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**
 Type: _____
 Depth (inches): _____
Hydric Soil Present? Yes ☒ No ☐

Remarks:

Appendix C

Site Photographs



Photograph 1: View of wooded area, facing northeast.



Photograph 2: View of Wetland 1, facing southeast.



Photograph 3: View of Wetland 2, facing north.



Photograph 4: View of Wetland 3, facing west.



Photograph 5: View of Wetland 4, facing east.



Photograph 6: View of Wetland 5, facing south.



Photograph 7: View of Wetland 6, facing west.



Photograph 8: View of Wetland 7 and representative of Wetland 8, facing west.



Photograph 9: View of Wetland 9, facing north.



Photograph 10: View of Wetland 10, facing northeast.



Photograph 11: View of Wetland 11, facing southwest.



Photograph 12: View of Wetland 12, facing east.



Photograph 13: View of Wetland 13, facing west.



Photograph 14: View of Wetland 14, facing east.



Photograph 15: View of Waterbody A, facing south.



Photograph 16: View of Waterbody B, facing southeast.



Photograph 17: View of Waterbody C, facing north.



Photograph 18: View of waterbody D, facing west.



Photograph 19: View of Waterbody E, facing northeast.



Photograph 20: View of Waterbody F, facing south.



Photograph 21: View of Waterbody G, facing west.



Photograph 22: View of waterbody H, facing south.



Photograph 23: View of Waterbody I, facing west.



Photograph 24: View of Waterbody J, facing west.



Photograph 25: View of Waterbody K, facing southeast.



Photograph 26: View of Waterbody L, facing south.



Photograph 27: View of Waterbody M, facing south.



Photograph 28: View of Waterbody N, facing north.



Photograph 29: DCP-1, sample location.



Photograph 30: DCP-1, soil sample.



Photograph 31: DCP-2, sample location.



Photograph 32: DCP-2, soil sample.



Photograph 33: DCP-3, sample location.



Photograph 34: DCP-3, soil sample.



Photograph 35: DCP-4, sample location.



Photograph 36: DCP-4, soil sample.



Photograph 37: DCP-5, sample location.



Photograph 38: DCP-5, soil sample.



Photograph 39: DCP-6, sample location.



Photograph 40: DCP-6, soil sample.



Photograph 41: DCP-7, sample location.



Photograph 42: DCP-7, soil sample.



Photograph 43: DCP-8, sample location.



Photograph 44: DCP-8, soil sample.



Photograph 45: DCP-9, sample location.



Photograph 46: DCP-9, soil sample.



Photograph 47: DCP-10, sample location.



Photograph 48: DCP-10, soil sample.



Photograph 49: DCP-11, sample location.



Photograph 50: DCP-11 soil sample.



Photograph 51: DCP-12 sample location.



Photograph 52: DCP-12, soil sample.

Appendix D

Wetland Delineation Plan



AREA OF WETLANDS

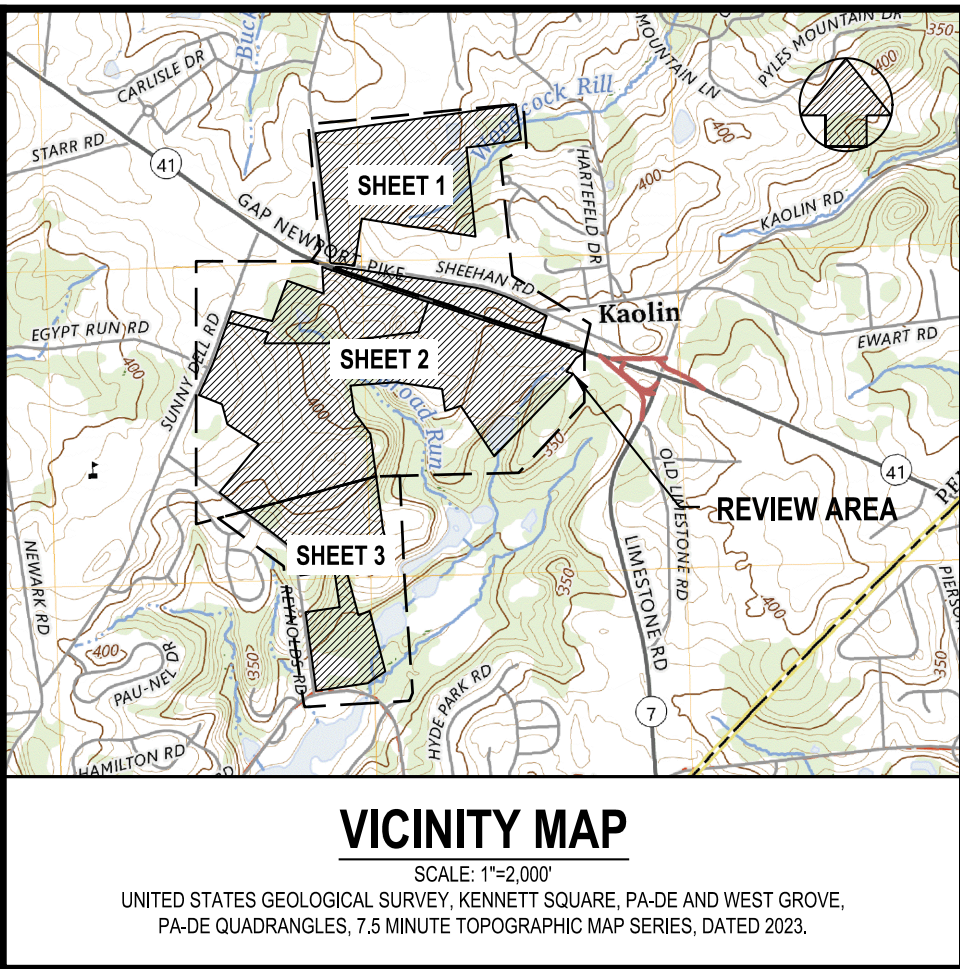
WETLAND	APPROXIMATE AREA
WETLAND 1	38,087 SF (0.90 ACRES)
WETLAND 2	9,811 SF (0.23 ACRES)
WETLAND 3	2,876 SF (0.07 ACRES)
WETLAND 4	8,312 SF (0.19 ACRES)
WETLAND 5	650 SF (0.01 ACRES)
WETLAND 6	6,443 SF (0.15 ACRES)
WETLAND 7	606 SF (0.01 ACRES)
WETLAND 8	248 SF (0.009 ACRES)
WETLAND 9	1,797 SF (0.04 ACRES)
WETLAND 10	1,608 SF (0.04 ACRES)
WETLAND 11	39,569 SF (0.90 ACRES)
WETLAND 12	27,218 SF (0.62 ACRES)
WETLAND 13	3,579 SF (0.08 ACRES)
WETLAND 14	1,980 SF (0.05 ACRES)
TOTAL WETLANDS	141,769 SF (3.26 ACRES)

AREA OF WATERBODIES

WATERBODIES	APPROXIMATE LENGTH	APPROXIMATE AREA
WATERBODY A	-	30,850 SF (0.71 ACRES)
WATERBODY B	325	-
WATERBODY C	207	-
WATERBODY D	222	-
WATERBODY E	362	-
WATERBODY F	1,091	-
WATERBODY G	87	-
WATERBODY H	-	63,145 SF (1.45 ACRES)
WATERBODY I	50	-
WATERBODY J	15	-
WATERBODY K	395	-
WATERBODY L	39	-
WATERBODY M	374	-
WATERBODY N	540	-

SYMBOL ¹	NAME/DESCRIPTION ¹	HYDRIC SOIL ²	HYDRIC COMPONENT ²	PERCENTAGE OF MAPPING UNIT ²	POSITION IN LANDSCAPE ²
Ba	BAILE SILT LOAM	YES	BAILE	85	DEPRESSIONS
BaB	BAILE SILT LOAM, 3 TO 8% SLOPES	YES	BAILE	85	DEPRESSIONS
CsB	CHESTER SILT LOAM, 3 TO 8% SLOPES	NO			
GyA	GLENELG SILT LOAM, 0 TO 3% SLOPES	NO			
GyB	GLENELG SILT LOAM, 3 TO 8% SLOPES	NO			
GyC	GLENELG SILT LOAM, 8 TO 15% SLOPES	NO			
GyD	GLENELG SILT LOAM, 15 TO 25% SLOPES	NO			
GIA	GLENVILLE SILT LOAM, SOMEWHAT POORLY DRAINED, 0 TO 3% SLOPES	YES	BAILE	10	SWALES, DRAINAGEWAYS
GB	GLENVILLE SILT LOAM, 3 TO 8% SLOPES	YES	BAILE	10	DRAINAGEWAYS, SWALES
Ha	HATBORO SILT LOAM	YES	HATBORO	95	FLOODPLAINS
MaD	MANOR LOAM, 15 TO 25% SLOPES	NO			
MnE	MANOR LOAM, 25 TO 35% SLOPES	NO			
UaB	UDORTHENTS, SCHIST AND GNEISS, 0 TO 8% SLOPES	YES	HATBORO	95	FLOODPLAINS
UrB	URBAN LAND-CHESTER COMPLEX, 0 TO 8% SLOPES	NO			
UmB	URBAN LAND - GLENELG COMPLEX, 0 TO 8% SLOPES	NO			
UuB	URBAN LAND - UDORTHENTS, SCHIST, AND GNEISS COMPLEX, 0 TO 8% SLOPES	YES	BAILE	1	DEPRESSIONS
W	WATER	NO			

1. UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCE CONSERVATION SERVICE, CARROLL COUNTY, MARYLAND, SOIL SURVEY DATA VERSION 21, DATED 2004.
2. UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCE CONSERVATION SERVICE, HYDRIC SOILS LIST BY STATE, AVAILABLE AT https://nrcs.usda.gov/soil/conservation/publications/soil_list/ajrc2_hydric_soils_report_dynamic_data.html AND ACCESSSED ON FEBRUARY 7, 2025.

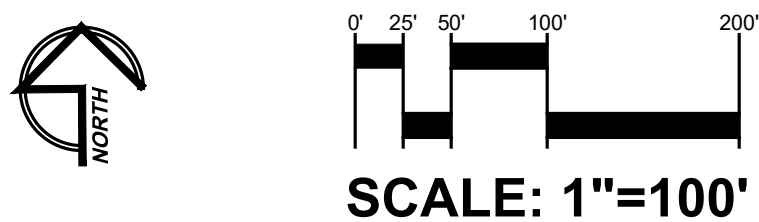


GENERAL INFORMATION

- PLAN PREPARED FOR: STONEWALL CAPITAL
117 E. MAIN STREET
ELKTON, MARYLAND 21921
ATTN: MR. RYAN HUMPHREY
- PLAN PREPARED BY: GEO-TECHNOLOGY ASSOCIATES, INC. (GTA)
3445-A BOX HILL CORPORATE CENTER DRIVE
ABINGDON, MARYLAND 21009
ATTN: MS. AMY NAZDROWICZ
PHONE: 410-515-8465
EMAIL: ANAZDROWICZ@GTAENG.COM
- THE REVIEW AREA ENCOMPASSES APPROXIMATELY 206.12 ACRES AND IS LOCATED NORTH AND SOUTH OF GAP NEWPORT PIKE IN AVONDALE AREA OF CHESTER COUNTY, PENNSYLVANIA.
- THIS PLAN WAS PRODUCED ON A BASE MAP PROVIDED BY GHD SERVICES INC.
- THERE ARE NO AREAS OF 100-YEAR FLOODPLAIN WITHIN THE REVIEW AREA PER FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) NUMBER 4202C0340G, EFFECTIVE SEPTEMBER 29, 2017.
- THE PARCELS NORTH OF GAP NEWPORT PIKE GENERALLY DRAIN NORTHEAST TOWARDS WOODCOCK RUN, A TRIBUTARY TO RED CLAY CREEK IN THE VICINITY OF THE REVIEW AREA. RED CLAY CREEK (BASIN (ALL SECTIONS IN PA) PA-DE STATE BORDER TO MOUTH) IS CLASSIFIED IN THE PENNSYLVANIA CODE, TITLE 25, CHAPTER 93, WATER QUALITY STANDARDS AS COLD WATER FISHES AND MIGRATORY FISHES (CWF). THE PARCELS SOUTH OF GAP NEWPORT PIKE GENERALLY DRAIN SOUTHEAST TOWARDS BROAD RUN IN THE VICINITY OF THE REVIEW AREA. BROAD RUN (BASIN) IS CLASSIFIED IN THE PENNSYLVANIA CODE, TITLE 25, CHAPTER 93, WATER QUALITY STANDARDS AS EXCEPTIONAL VALUE WATERS AND MIGRATORY FISHES.
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- AS A RESULT OF THE REVIEW OF THE REVIEW AREA, IT IS GTA'S PROFESSIONAL OPINION THAT THERE ARE WETLANDS AND WATERBODIES PRESENT WITHIN THE SUBJECT SITE.
- GTA'S CONCLUSIONS REGARDING THIS SITE HAVE BEEN BASED ON OBSERVATIONS OF EXISTING CONDITIONS, PROFESSIONAL EXPERIENCE AND GENERALLY ACCEPTED PROFESSIONAL ENVIRONMENTAL PRACTICE UNDER SIMILAR CIRCUMSTANCES. SEASONAL VEGETATION CYCLES AND FLUCTUATIONS IN PRECIPITATION OR WEATHER CONDITIONS CAN RESULT IN DIFFERENCES IN THE PERCEPTION OF HYDROLOGIC CONDITIONS AND THE PRESENCE OF PREDOMINANTLY HYDROPHITIC VEGETATION, WHICH CAN ALTER GTA'S EVALUATION OF WETLANDS/WATERBODIES.
- IT IS IMPORTANT TO NOTE THAT THIS EVALUATION IS GTA'S PROFESSIONAL OPINION ONLY. DECISIONS REGARDING THE OFFICIAL JURISDICTIONAL STATUS OF WETLANDS/WATERBODIES ARE MADE BY FEDERAL, STATE, AND/OR LOCAL REGULATORY AGENCIES.
- THIS PLAN WAS PREPARED BY GTA FOR THE SOLE AND EXCLUSIVE USE OF STONEWALL CAPITAL. ANY REPRODUCTION OF THIS PLAN BY ANY OTHER PERSON WITHOUT THE EXPRESSED WRITTEN PERMISSION OF GTA AND STONEWALL CAPITAL IS UNAUTHORIZED, AND SUCH USE IS AT THE SOLE RISK OF THE USER.

LEGEND

- EX. REVIEW AREA
- EX. PROPERTY BOUNDARY
- EX. 2-FOOT CONTOUR
- EX. 10-FOOT CONTOUR
- EX. TREELINE
- EX. SOIL BOUNDARY
- EX. INTERMITTENT STREAM (WITH NUMBERED FLAG LOCATIONS)
- EX. PERENNIAL STREAM (WITH NUMBERED FLAG LOCATIONS)
- EX. NONTIDAL WETLAND (WITH NUMBERED FLAG LOCATIONS)
- EX. 25-FOOT WETLAND BUFFER
- WETLAND DELINEATION DATA COLLECTION POINT (DCP)
- NUMBERED PHOTOGRAPH LOCATION

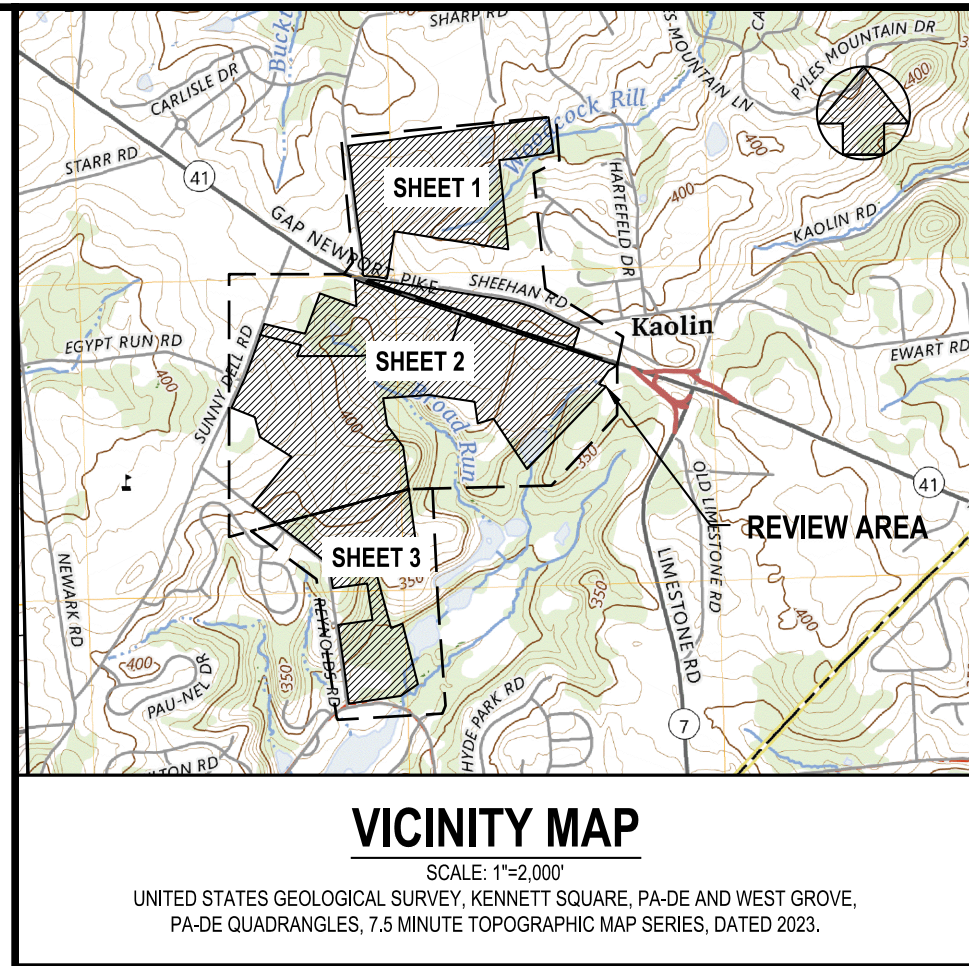


GEO-TECHNOLOGY ASSOCIATES, INC.
GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS
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WWW.GTAENG.COM
© GEO-TECHNOLOGY ASSOCIATES, INC.

WETLAND DELINEATION
WHITE CLAY POINT
CHESTER COUNTY, PENNSYLVANIA

REVISIONS:

JOB NO:	31251463
SCALE:	1" = 100'
DATE:	OCTOBER 24, 2025
DRAWN BY:	DA
DESIGN BY:	
REVIEW BY:	MAJ/TAS
SHEET:	1 OF 3



GENERAL INFORMATION

1. PLAN PREPARED FOR: STONEWALL CAPITAL
111 E. MAIN STREET
ESKATON, MARYLAND 21521
ATTN: MR. RYAN HUMPHREY
2. PLAN PREPARED BY: GEO-TECHNOLOGY ASSOCIATES, INC. (GTA)
3445-A BOX HILL CORPORATE CENTER DRIVE
ABINGDON, MARYLAND 21009
ATTN: MS. AMY NAZDROVICZ
PHONE: 410-515-9446
EMAIL: ANAZDROVICZ@GTAENG.COM
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5. THERE ARE NO AREAS OF 100-YEAR FLOODPLAIN WITHIN THE REVIEW AREA PER FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) NUMBER 420203400, EFFECTIVE SEPTEMBER 20, 2017.
6. THE PARCELS NORTH OF GAP NEWPORT PIKE GENERALLY DRAIN NORTHEAST TOWARDS WOODCOCK RILL, A TRIBUTARY TO RED CLAY CREEK. IN THE VICINITY OF THE REVIEW AREA, RED CLAY CREEK (BASIN ALL SECTIONS IN PA) IN-DE STATE BORDER TO MOUTH IS CLASSIFIED IN THE PENNSYLVANIA CODE, TITLE 25, CHAPTER 93, WATER QUALITY STANDARDS AS COLD WATER FISHES AND MIGRATORY FISHES (CWF, MF). THE PARCELS SOUTH OF GAP NEWPORT PIKE GENERALLY DRAIN SOUTHEAST TOWARDS BROAD RUN. IN THE VICINITY OF THE REVIEW AREA, BROAD RUN (BASIN) IS CLASSIFIED IN THE PENNSYLVANIA CODE, TITLE 25, CHAPTER 93, WATER QUALITY STANDARDS AS EXCEPTIONAL VALUE WATERS AND MIGRATORY FISHES.
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AREA OF WETLANDS

WETLAND	APPROXIMATE AREA
WETLAND 1	39,097 SF (0.90 ACRES)
WETLAND 2	9,811 SF (0.23 ACRES)
WETLAND 3	2,876 SF (0.07 ACRES)
WETLAND 4	8,312 SF (0.19 ACRES)
WETLAND 5	650 SF (0.01 ACRES)
WETLAND 6	6,443 SF (0.15 ACRES)
WETLAND 7	686 SF (0.01 ACRES)
WETLAND 8	248 SF (0.006 ACRES)
WETLAND 9	1,797 SF (0.04 ACRES)
WETLAND 10	1,606 SF (0.04 ACRES)
WETLAND 11	39,569 SF (0.90 ACRES)
WETLAND 12	27,218 SF (0.62 ACRES)
WETLAND 13	3,579 SF (0.08 ACRES)
WETLAND 14	1,890 SF (0.05 ACRES)
TOTAL WETLANDS	141,789 SF (3.26 ACRES)

AREA OF WATERBODIES

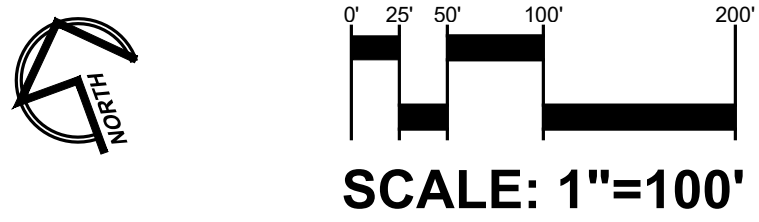
WATERBODIES	APPROXIMATE LENGTH	APPROXIMATE AREA
WATERBODY A	-	30,850 SF (0.71 ACRES)
WATERBODY B	325	-
WATERBODY C	207	-
WATERBODY D	222	-
WATERBODY E	362	-
WATERBODY F	1,091	-
WATERBODY G	87	-
WATERBODY H	-	63,145 SF (1.45 ACRES)
WATERBODY I	50	-
WATERBODY J	15	-
WATERBODY K	305	-
WATERBODY L	39	-
WATERBODY M	374	-
WATERBODY N	540	-

SYMBOL ¹	NAME/DESCRIPTION ¹	HYDRIC SOIL ²	HYDRIC COMPONENT ³	PERCENTAGE OF MAPPING UNIT ³	POSITION IN LANDSCAPE ²
Ba	BAILE SILT LOAM	YES	BAILE	85	DEPRESSIONS
BaB	BAILE SILT LOAM, 3 TO 8% SLOPES	YES	BAILE	85	DEPRESSIONS
CaB	CHESTER SILT LOAM, 3 TO 8% SLOPES	NO			
GaA	GLENELG SILT LOAM, 0 TO 3% SLOPES	NO			
GaB	GLENELG SILT LOAM, 3 TO 8% SLOPES	NO			
GaC	GLENELG SILT LOAM, 8 TO 15% SLOPES	NO			
GaD	GLENELG SILT LOAM, 15 TO 25% SLOPES	NO			
GIA	GLENVILLE SILT LOAM, SOMEWHAT POORLY DRAINED, 0 TO 3% SLOPES	YES	BAILE	10	SWALES, DRAINAGEWAYS
GIB	GLENVILLE SILT LOAM, 3 TO 8% SLOPES	YES	BAILE	10	DRAINAGEWAYS, SWALES
Ha	HATBORO SILT LOAM	YES	HATBORO	95	FLOODPLAINS
MaD	MANOR LOAM, 15 TO 25% SLOPES	NO			
MaE	MANOR LOAM, 25 TO 35% SLOPES	NO			
UaB	UDORTHERTS, SCHIST AND GNEISS, 0 TO 8% SLOPES	YES	HATBORO	95	FLOODPLAINS
UaB	UDORTHERTS, SCHIST AND GNEISS, 8 TO 15% SLOPES	YES	HATBORO	95	FLOODPLAINS
UaB	UDORTHERTS, SCHIST AND GNEISS, 15 TO 25% SLOPES	YES	HATBORO	95	FLOODPLAINS
UaB	UDORTHERTS, SCHIST AND GNEISS, 25 TO 35% SLOPES	YES	HATBORO	95	FLOODPLAINS
UaB	UDORTHERTS, SCHIST AND GNEISS, 35 TO 45% SLOPES	YES	HATBORO	95	FLOODPLAINS
UaB	UDORTHERTS, SCHIST AND GNEISS, 45 TO 55% SLOPES	YES	HATBORO	95	FLOODPLAINS
UaB	UDORTHERTS, SCHIST AND GNEISS, 55 TO 65% SLOPES	YES	HATBORO	95	FLOODPLAINS
UaB	UDORTHERTS, SCHIST AND GNEISS, 65 TO 75% SLOPES	YES	HATBORO	95	FLOODPLAINS
UaB	UDORTHERTS, SCHIST AND GNEISS, 75 TO 85% SLOPES	YES	HATBORO	95	FLOODPLAINS
UaB	UDORTHERTS, SCHIST AND GNEISS, 85 TO 95% SLOPES	YES	HATBORO	95	FLOODPLAINS
UaB	UDORTHERTS, SCHIST AND GNEISS, 95 TO 100% SLOPES	YES	HATBORO	95	FLOODPLAINS
W	WATER	NO			

¹ UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCE CONSERVATION SERVICE, CARRILL COUNTY, MARYLAND, SOIL SURVEY DATA VERSION 21, DATED 2004.
² UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCE CONSERVATION SERVICE, HYDRIC SOILS LIST BY STATE, AVAILABLE AT: https://efotg.sc.egov.usda.gov/references/public/state_list_nrcsl_hydric_soils_report_dynamic_data.htm AND ACCESSSED ON FEBRUARY 1, 2025.
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LEGEND

- EX. REVIEW AREA
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- EX. 25-FOOT WETLAND BUFFER
- WETLAND DELINEATION DATA COLLECTION POINT (DCP)
- NUMBERED PHOTOGRAPH LOCATION



GEO-TECHNOLOGY ASSOCIATES, INC.

GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS
3445-A BOX HILL CORPORATE CENTER DRIVE
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410-515-9446
FAX: 410-515-4885
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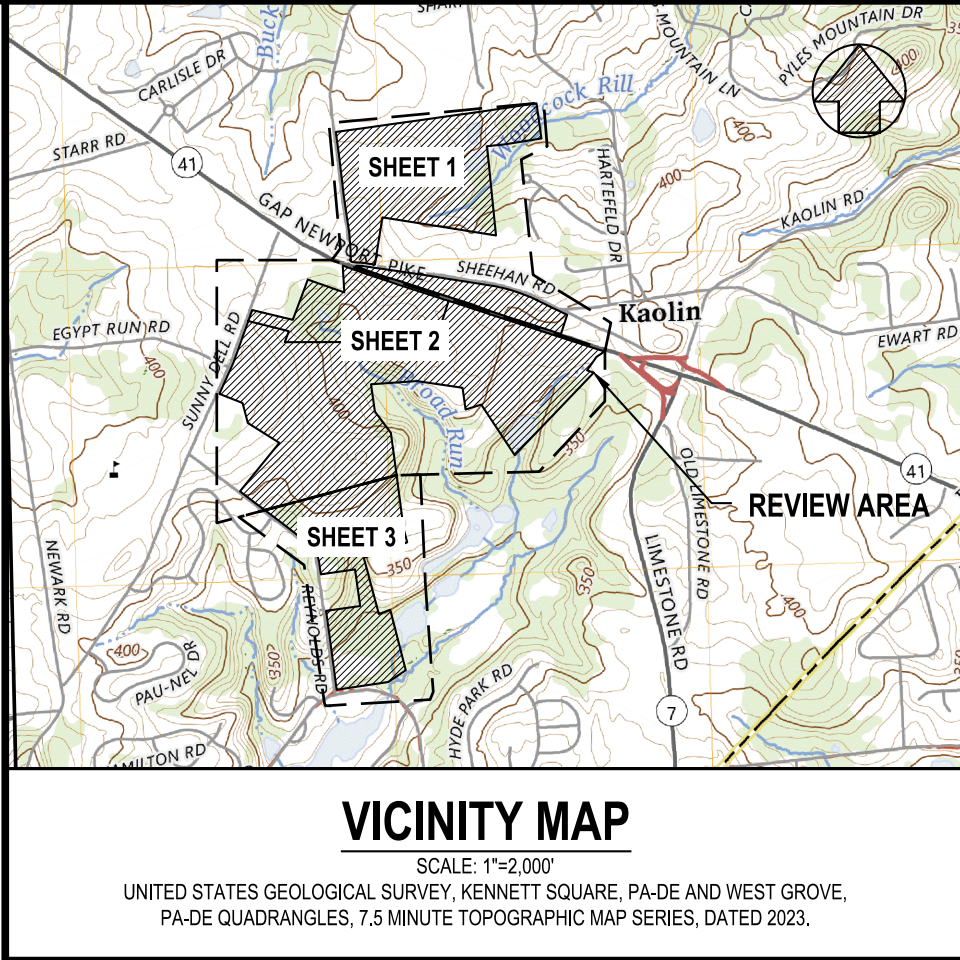
WETLAND DELINEATION

WHITE CLAY POINT

CHESTER COUNTY, PENNSYLVANIA

REVISIONS:

JOB NO:	31251463
SCALE:	1" = 100'
DATE:	OCTOBER 24, 2025
DRAWN BY:	DIA
DESIGN BY:	MAJ/TAS
REVIEW BY:	MAJ/TAS
SHEET:	2 OF 3



GENERAL INFORMATION

- PLAN PREPARED FOR:

STONEWALL CAPITAL
117 E. MAIN STREET
ELKTON, MARYLAND 21921
ATTN: MR. RYAN HUMPHREY
- PLAN PREPARED BY:

GEO-TECHNOLOGY ASSOCIATES, INC. (GTA)
3445-A BOX HILL CORPORATE CENTER DRIVE
ABINGDON, MARYLAND 21009
ATTN: MS. AMY NAZDROWICZ
PHONE: 410-515-8448
EMAIL: ANAZDROWICZ@GTAENG.COM
- THE REVIEW AREA ENCOMPASSES APPROXIMATELY 206.12 ACRES AND IS LOCATED NORTH AND SOUTH OF GAP NEWPORT PIKE IN AVONDALE AREA OF CHESTER COUNTY, PENNSYLVANIA.
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AREA OF WETLANDS

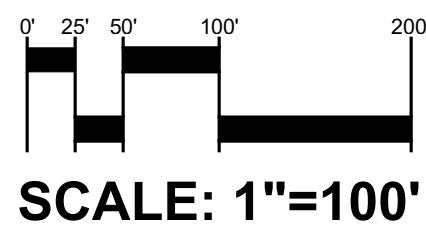
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WATERBODY M	374	-
WATERBODY N	540	-

SYMBOL ¹	NAME/DESCRIPTION ¹	HYDRIC SOIL ²	HYDRIC COMPONENT ²	PERCENTAGE OF MAPPING UNIT ²	POSITION IN LANDSCAPE ³
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GdD	GLENELG SILT LOAM, 15 TO 25% SLOPES	NO			
GIA	GLENVILLE SILT LOAM, SOMEWHAT POORLY DRAINED, 0 TO 3% SLOPES	YES	BAILE	10	SWALES, DRAINAGEWAYS
GIB	GLENVILLE SILT LOAM, 3 TO 8% SLOPES	YES	BAILE	10	DRAINAGEWAYS, SWALES
Ha	HATBORO SILT LOAM	YES	HATBORO	95	FLOODPLAINS
MdD	MAJOR LOAM, 15 TO 25% SLOPES	NO			
MdE	MAJOR LOAM, 25 TO 35% SLOPES	NO			
UaB	UDORTHENTS, SCHIST AND GNEISS, 0 TO 8% SLOPES	YES	HATBORO	95	FLOODPLAINS
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UuB	URBAN LAND - UDORTHENTS, SCHIST, AND GNEISS COMPLEX, 0 TO 8% SLOPES	YES	BAILE	1	DEPRESSIONS
W	WATER	NO			

1. UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCE CONSERVATION SERVICE, CANNON, COUNTY, MARYLAND, SOIL SURVEY DATA VERSION 21, DATED 2024.
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WETLAND DELINEATION

WHITE CLAY POINT

CHESTER COUNTY, PENNSYLVANIA

REVISIONS:

JOB NO:	31251463
SCALE:	1" = 100'
DATE:	OCTOBER 24, 2025
DRAWN BY:	DA
DESIGN BY:	
REVIEW BY:	MAJ/TAS
SHEET:	3 OF 3