



CONSTITUTION PIPELINE

*New York State Department of Environmental Conservation and
U.S. Army Corps of Engineers
Joint Application – Supplemental Information
Constitution Pipeline
Broome, Chenango, Delaware, [Otsego](#), and Schoharie Counties*

ATTACHMENT H
WETLAND DELINEATION REPORT

Updated August 2014



CONSTITUTION PIPELINE

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WETLAND DELINEATION REPORT Broome, Chenango, Delaware, Otsego and Schoharie Counties, New York

Submittal No. 3
Wetlands & Waterbodies field-delineated
between September 6, 2013 and June 3, 2014

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September 6, 2013 to June 3, 2014



1.0 Introduction

Constitution Pipeline Company, LLC (Constitution) is proposing the Constitution Pipeline (Project) to provide 650,000 dekatherms per day (Dth/d) of new firm natural gas transportation capacity from three receipt points in Susquehanna County, Pennsylvania, to a proposed interconnection at with Iroquois Gas Transmission System, L.P.'s (Iroquois) at an existing transfer compressor station located in Wright, New York, and through a capacity lease on Iroquois to delivery points on the existing Iroquois and Tennessee Gas Pipeline Company, LLC (Tennessee) systems in Schoharie County, New York. The proposed interconnection with Iroquois and the delivery points into Iroquois and Tennessee will all be located within Iroquois' existing Wright Compressor Station property in Schoharie County, New York. The Project consists of approximately 125 miles of new 30-inch diameter pipeline, two meter stations with interconnecting piping, and additional ancillary facilities, such as main line valves, cathodic protection, and temporary and permanent access roads.

Field work for the Project began in June 2012 and will continue through 2014, as survey access permission is obtained. **This wetland delineation report (WDR) contains data processed between mileposts (MPs) 25.26 and 124.46 in Broome, Chenango, Delaware, and Schoharie Counties, New York from September 6, 2013 to June 3, 2014.** Because survey access permission is pending on some remaining parcels, Constitution anticipates one final submission that covers survey of outstanding parcels to complete the USACE Preliminary Jurisdictional Determination (PJD) process.

Each wetland and waterbody was given a unique alphanumeric designation to assist in field survey location and documentation. An example of the unique identifier being used is "BR-1I-W001," using the feature identification nomenclature in Table 1.0-1 (county, team, feature, and feature number). **Organization of the data sheets in Attachments 2 and 3 is separated by feature category (Wetland vs Waterbody) and further organized in alphabetical order by county, then team number, and finally numerical order by feature number and corresponds to the order of features discussed within the summary tables in Section 4.0.**

Table 1.0-1. Feature Identification Nomenclature

County	Team	Feature	Feature Number
BR – Broome CH – Chenango DE – Delaware OT – Otsego SC – Schoharie	1A through 1Z	W – Wetland S – Waterbody	001, 002, 003, etc.

2.0 Study Area

This WDR describes areas surrounding the current proposed Project Primary Route located in the following counties and townships in the State of New York:

- Delaware County - Masonville, Sidney, Franklin, Davenport, and Harpersfield Townships
- Broome County - Sanford Township



- Chenango County - Afton Township and Bainbridge Township
- Otsego County - Maryland Township
- Schoharie County - Summit, Jefferson, Richmondville, Cobleskill, Middleburg, Schoharie, and Wright Townships

Identification of regulated wetland and waterbody boundaries occurred within a 600-foot-wide survey corridor centered over the proposed pipeline (300 feet either side of the pipe centerline) from June 2012 through December 2013. In 2013, the survey corridor was adjusted to 300 feet centered over the proposed pipeline (150 feet either side of the pipe centerline). The boundary making up the 2012-600 foot corridor and the 2013- 300 corridor, constitute the Study Area. Only land parcels where survey access permission was granted by landowners were surveyed. Therefore, some wetlands identified within the Study Area are incomplete and end at no-access parcel boundaries.

For the purposes of this state specific WDR, all the features identified within the Study Area have been further refined to only those features falling within the limits of the Constitution Pipeline workspace. In addition, NYDEC regulated wetlands were included if they are outside of the workspace, but have 100 foot adjacent area buffer impacts. Lastly, wetlands and waterbodies that were outside of the workspace but immediately adjacent (within five feet) to the workspace limits of disturbance for access roads and proposed contractor yards were also included.

This WDR details survey of temporary and permanent access roads and ancillary facilities. Table 2.0-1 lists the current survey status of proposed ancillary facilities. Once these areas are identified, access permission is granted, and the sites are surveyed, they will be listed and described in the final report.

Table 2.0-1 Survey Status of Proposed Ancillary Facilities

Facility ID ^a	Approximate Location	Township	Surveyed As of 06/03/2014
MLV #3 Vale Rd	MP 26.80	Sanford	Yes
MLV #4 Obrien Rd	MP 40.94	Sanford	Yes
MLV #5 Access Rd/Town Rd	MP 52.23	Masonville	Yes
MLV #6 Stewart Rd	MP 65.94	Franklin	Yes
MLV #7 County Road 10	MP 80.39	Davenport	Yes
MLV #8 Clapper Hollow Road	MP 95.05	Summit	Yes
MLV #9 Access Rd/Dodge Lodge Road	MP 107.26	Richmondville	Yes
MLV #10 Smith Rd	MP 119.51	Schoharie	Yes
Westfall Road M&R Delivery Station (includes Pig Receiver & MLV Terminus)	MP 124.46	Wright	Yes
Contractor Yard 3A / Construction Spread 3	8702' north of MP 53.51	Sidney	Yes
Contractor Yard 4A / Construction Spread 4	16,176' north of MP 77.36	Oneonta	Yes
Contractor Yard 4D / Construction Spread 4	6,920' northwest of MP 86.88	Maryland	Yes
Contractor Yard 5 / Construction Spread 5	7,610' northwest MP 107.15	Richmondville	Yes



3.0 Wetland and Waterbody Delineation Methodology

This section references and describes the regulatory manuals, definitions, and methodologies used to field delineate wetlands and waterbody features within the Study Area. This WDR submission (No. 2) describes field surveys conducted within the Study Area between June 4, 2012 (Survey Week 1) and September 6, 2013 (Survey Week 66) on land parcels with survey access permission. General reconnaissance of the Study Area was conducted to assess the presence of wetland and waterbody features. Where potential wetland indicators were observed, data were collected at sample plot locations to determine if a dominance of hydrophytic vegetation indicators, hydric soil indicators, and hydrology indicators were present. If each of the three criteria was present within the sample plot, a wetland boundary and upland and wetland data plot locations were established.

3.1 Preliminary Information Review

Prior to the commencement of field surveys, AECOM reviewed the following information to determine the potential extent of wetlands and waterbodies within the Study Area:

1. USGS topographic quadrangles;
2. National Wetland Inventory (NWI) mapping;
3. Natural Resource Conservation Service – Web Soils Survey Data;
4. Aerial photography; and,
5. NYSDEC freshwater wetland mapping.

3.2 General Field Methodology

Wetland and waterbody boundaries were marked with survey flagging. Wetlands were marked with blue survey flagging, and waterbodies were marked with pink and black striped survey flagging. Each wetland and waterbody was given a unique alphanumeric designation to assist in field survey location and documentation. An example of the unique identifier being used is “BR-1I-W001-101,” using the feature identification nomenclature from Table 1.0-1 (county, team, feature, and feature number) and including the flag number based on the boundary line.

Table 3.2-1. Feature Identification Nomenclature with Flag Number

County	Team	Feature	Feature Number	Boundary Line	Flag Number
BR – Broome CH – Chenango DE – Delaware OT – Otsego SC – Schoharie	1A – 1Z	W – Wetland S – Waterbody	001, 002, 003, etc.	100, 200, 300., etc.	101, 102, 103, etc. 201, 202, 203, etc.

Flag positions and data plot locations were field located by AECOM biologists using a Global Positioning System (GPS) handheld Trimble® Yuma® tablet computer unit coupled with AECOM’s proprietary mobile Geographic Information Systems (GIS) field application software, Environmental Mobile Application for Projects (EMAP).



3.2.1 Wetland Delineations

The wetland delineation methodologies outlined in the 1987 Corps of Engineers Wetland Delineation Manual (1987 Corps Manual) (Environmental Laboratory 1987) and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region, Version 2.0 (Regional Supplement) (USACE 2011) were used to identify and delineate wetlands.

According to the 1987 Corps Manual and the Regional Supplement, three distinct characteristics must be exhibited for an area to be considered wetlands:

1. The prevalent vegetation must consist of plants adapted to life in hydric soil conditions. These species, due to morphological, physiological, and/or reproductive adaptations, can and do persist in anaerobic soil conditions;
2. Soils must be classified as hydric, or they must possess characteristics that are associated with reducing soil conditions; and
3. The area must be inundated either permanently or periodically at mean water depths less than 6.6 feet (2 meters) or the soil saturated at the surface for some time during the growing season of the prevalent vegetation.

The specific methods used for characterizing and evaluating vegetation, hydrology, and soils were:

Vegetation

Species abundance in both upland and wetland communities was visually estimated by percent cover within each vegetation stratum. Dominant trees/vines and shrubs/saplings and herbaceous plants were recorded within sample plots of 30-foot, 15-foot, and 5-foot radius, respectively. AECOM identified plant species using botanical references for the region. The hydrophytic indicator status of each species was identified using the North American Digital Flora: National Wetland Plant List (Lichvar and Kartesz, 2009). Indicators of hydrophytic vegetation are satisfied if the results of the rapid assessment include all species rated as OBL or FACW (Indicator 1), the dominance test is greater than 50% (Indicator 2), or the prevalence index is less than or equal to 3.0 (Indicator 3). The wetland classification system developed by Cowardin et al. (1979) was utilized to classify delineated wetland vegetated community cover type as palustrine forested (PFO), palustrine scrub-shrub (PSS), palustrine emergent (PEM), or palustrine open water (POW). Vegetation community type names described by Edinger et al. (2002) were used to further classify each wetland community type, based upon the vegetation present.

Soils

For each observation plot, AECOM characterized the soil profile to determine the presence or absence of hydric soil indicators. Soil borings were taken with a hand-held auger to depths of approximately 18-24 inches to observe the soil profile and evaluate redoximorphic features, if present. Information collected for each soil profile included horizon depth, texture, color, and the presence or absence of redoximorphic features. Colors of the soil matrix and redoximorphic features were identified using Munsell® colors (Gretag/Macbeth 2000). AECOM based all hydric soil determinations on criteria established in the 1987 Corps Manual and the Regional Supplement, as well as Field Indicators of Hydric Soils in the United States, Version 7.0 (USDA NRCS 2010). Table 3.2-2 contains a list of primary and secondary wetland soil indicators.



Table 3.2-2. Wetland Soil Indicators for the Northcentral and Northeast Region.

Hydric Soil Indicators		Indicators for Problematic Hydric Soils
Histosol (A1)	Dark Surface (S7)(LRR R, MLRA 149B)	2cm Muck (A10)(LRR K, L, MLRA 149B)
Histic Epipedon (A2)	Thin Dark Surface (S9)(LRR R, MLRA 149B)	Coast Prairie Redox (A16)(LRR K, L, R)
Black Histic (A3)	Loamy Mucky Mineral (F1)(LRR K, L)	5cm Mucky Peat or Peat (S3) (LRR K, L, R)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Dark Surface (S7)(LRR K, L, M)
Stratified Layers (A5)	Depleted Matrix (F3)	Polyvalue Below Surface (S8)(LRR K, L)
Depleted Below Dark Surface (A11)	Redox Dark Surface (F6)	Thin Dark Surface (S9)(LRR K, L, R)
Thick Dark Surface (A12)	Depleted Dark Surface (F7)	Iron-Mg Masses (F12)(LRR K, L, R)
Sandy Mucky Mineral (S1)	Redox Depressions (F8)	Piedmont Floodplain Soils (F19)(MLRA 149B)
Sandy Gleyed Matrix (S4)		Mesic Spodic (TA6)(MLRA 144A, 145, 149B)
Sandy Redox (S5)		Red Parent Material (F21)
Stripped Matrix (S6)		Very Shallow Dark Surface (TF12)

Hydrology

Indicators of wetland hydrology were evaluated by determining the presence of primary indicators, noting whether the soil at the surface was inundated or contained free water or saturation within the upper 12 inches of the soil profile. If primary indicators were not observed, the presence of secondary indicators was investigated. If two or more secondary indicators were observed, the area was determined to contain wetland hydrology. Table 3.2-3 contains a list of primary and secondary wetland hydrology indicators. Additionally, AECOM noted the presence of any saturation and/or standing water encountered within the soil profile.

Table 3.2-3. Wetland Hydrology Indicators for the Northcentral and Northeast Region.

Primary Indicators (minimum of one is required)		Secondary Indicators (minimum of two is required)
Surface Water (A1)	Sparsely Vegetated Concave Surface (B8)	Surface Soil Cracks (B6)
High Water Table (A2)	Water Stained Leaves (B9)	Drainage Patterns (B10)
Saturation (A3)	Aquatic Fauna (B13)	Moss Trim Lines (B16)
Water Marks (B1)	Marl Deposits (B15)	Dry-Season Water Table (C2)
Sediment Deposits(B2)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Drift Deposits(B3)	Oxidized Rhizospheres on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Recent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Thick Muck Surface (C7)	Shallow Aquitard (D3)
		Microtopographic Relief (D4)
		FAC-Neutral Test (D5)

3.2.2 Waterbody Delineations

Waterbodies were grouped into watercourse, ponds, lakes, and other (i.e. springs). Waterbody boundaries were established using guidelines presented in 33 CFR 328.4(c), which states, “the limits of federal



jurisdiction for non-tidal waters of the United States in the absence of adjacent wetlands is the ordinary high water mark” (OHWM). The OHWM is established by observations of water fluctuation, physical characteristics, such as a clear natural line impressed on the bank, shelving, changes in the soil character, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas” (33 CFR 328.3(e)).

Waterbody types were classified as perennial, seasonal, intermittent, or ephemeral. Perennial waterbodies were categorized as those that flow throughout the year and are supplied by ground water. Seasonal waterbodies were categorized as those that have continuous flow for three or more months out of the year. Intermittent watercourses were categorized as waterbodies that carry water during portions of the year and may be supplied by ground water part of the year. During other portions of the year, intermittent streams do not contain any water flow. Ephemeral waterbodies were categorized as those that flow only during or subsequent to a rain event.

4.0 Results

During the previously described field investigations, AECOM scientists delineated an additional 53 wetlands and 30 waterbodies within the proposed Project workspace.

4.1 Wetlands

Table 4.1-1 contains for each wetland the wetland identification, wetland indicators, wetland vegetative community description, and a brief function and value description, among other information. **The attached Wetland Datasheets and Photographs (Attachment 2) are organized in alphabetical order by county, then team number, and finally numerical order by feature number (i.e., feature BR-1A-W001 datasheet is first, followed by BR-1A-W002, etc.).** Site Specific Drawings (Attachment 4) depict detailed information of the wetlands crossed by the Project.

4.2 Waterbodies

Table 4.2-1 contains for each waterbody the waterbody identification, name, type, and a brief description, among other information. **The attached Waterbody Datasheets and Photographs (Attachment 3) are organized in alphabetical order by county, then team number, and finally numerical order by feature number (i.e., feature BR-1A-S001 datasheet is first, followed by BR-1A-S002, etc.).** Site Specific Drawings (Attachment 4) depict detailed information of the waterbodies crossed by the Project.



Table 4.1-1. Wetlands Delineated within the Study Area on Accessible Land Parcels from September 6, 2013 to June 3, 2014.

Wetland ID	Latitude Longitude ^a	Township County	USGS Quad ^b	Class ^c	Wetland Hydrology Indicator		Hydrophytic Vegetation Indicator	Hydric Soil Indicator	Wetland Description, Vegetative Community Type
					Primary	Secondary			
BR-1C-W260	42.011112 -75.52618	Sanford Broome	Gulf Summit	PFO	A2, A3, C3	B10	2, 3	F3	Mixed forb wet meadow with maple canopy.
BR-1C-W261	42.137884 -75.45602	Sanford Broome	North Sanford	PEM	C3		2, 3	F3	Monotypic wet meadow.
BR-1C-W263	42.020800 -75.52560	Sanford Broome	Gulf Summit	PEM PSS	A2, A3, C3 A3	B10 B10	2, 3 2, 3	F3 F3	Reed canarygrass dominant wet meadow and willow dominant scrub-shrub.
BR-1C-W268	42.056956 -75.50678	Sanford Broome	Gulf Summit	PFO	A1, A2, A3		2	A11	Hemlock-northern hardwood palustrine forest.
DE-1A-W125A*	42.416668 -75.04953	Franklin Delaware	Oneonta	PFO	A3, B9	B10	2, 3	F3	Mixed hardwood forested wetland.
DE-1A-W125B*	42.41698 -75.04896	Franklin Delaware	Oneonta	PFO	A3, B9	B10	2, 3	F3	Hemlock-northern hardwood swamp.
DE-1A-W248A	42.423188 -74.96092	Davenport Delaware	West Davenport	PSS	A3, C3	B10	3	F6	Shrub swamp dominated by multiflora rose.
DE-1A-W361#	42.390766 -75.09577	Franklin Delaware	Oneonta	PFO	A2, A3	B10	2, 3	F3	Red maple-hardwood swamp-swale.
DE-1A-W362	42.390692 -75.09610	Franklin Delaware	Oneonta	PEM	A3	B10	2, 3	A12, F21	Mixed forb wet meadow swale.
DE-1A-W373	42.383361 -75.12731	Franklin Delaware	Otego	PFO	A2, A3, B9	B10	3	F3	Hemlock-northern hardwood depression.
DE-1A-W374	42.383574 -75.12766	Franklin Delaware	Otego	PFO	A2, A3, B9	B10	2, 3	F3	Hemlock-northern hardwood swale.
DE-1A-W463	42.35369 -75.20527	Sidney Delaware	Franklin	PFO	A3, B9	B10	2, 3	F3	Red maple-northern hardwood palustrine forest.
DE-1A-W467#	42.354288 -75.20456	Sidney Delaware	Franklin	PFO	A2, A3	B10	2, 3	F3	Red maple - white pine palustrine forest.



Table 4.1-1. Wetlands Delineated within the Study Area on Accessible Land Parcels from September 6, 2013 to June 3, 2014.

Wetland ID	Latitude Longitude ^a	Township County	USGS Quad ^b	Class ^c	Wetland Hydrology Indicator		Hydrophytic Vegetation Indicator	Hydric Soil Indicator	Wetland Description, Vegetative Community Type
					Primary	Secondary			
DE-1A-W468#	42.353818 -75.20373	Sidney Delaware	Franklin	PEM PFO	A3, B9 A2, A3, B9	B10 B10	2, 3 2, 3	F3 F3	Mixed forb wet meadow with adjacent mixed hardwood palustrine forest.
DE-1A-W469#	42.354021 -75.20320	Sidney Delaware	Franklin	PFO	A3, B9		2, 3	F3	Northern hardwood palustrine forest.
DE-1A-W472	42.428184 -74.91310	Davenport Delaware	West Davenport	PFO	A3, B9	B10, D4	2, 3	F3	Red maple - northern hardwood palustrine forest.
DE-1A-W473	42.355436 -75.22986	Sidney Delaware	Franklin	PFO	A2, A3, B9	B10	2, 3	F3	Red maple palustrine forest.
DE-1A-W475	42.354899 -75.23146	Sidney Delaware	Franklin	PFO	A3, B9	B10, C9	2, 3	F3	Red maple-mixed hardwood palustrine forest.
DE-1A-W476	42.354429 -75.23145	Sidney Delaware	Franklin	PFO	A2, B9		2, 3	F3	Hemlock-northern hardwood depression.
DE-1A-W478	42.352037 -75.24240	Sidney Delaware	Franklin	PFO PEM	A2, A3 A3, C3	B10 B10	2, 3 2, 3	F3 F3	Red maple - northern hardwood palustrine forest with wet meadow opening.
DE-1B-W270*	42.419889 -75.06151	Franklin Delaware	Oneonta	PFO	A1, A3	B10, D4	Problematic	F3	Riparian wetland fringe.
DE-1C-W158B#	42.288747 -75.35494	Sidney Delaware	Unadilla	PEM	A3, C3		2, 3	F3	Mixed forb wet meadow.
DE-1C-W158A	42.289866 -75.35009	Sidney Delaware	Unadilla	PEM	A2, A3		2, 3	F2	Mixed forb wet meadow seep.
DE-1C-W158C	42.288843 -75.35472	Sidney Delaware	Unadilla	PEM	A2, A3, C3		2, 3	F3	Mixed forb wet meadow swale.
DE-1C-W329	42.404053 -75.09146	Franklin Delaware	Oneonta	PEM	A2, A3, C3	B10	2, 3	F3	Mixed forb wet meadow.
DE-1C-W338	42.286111 -75.35850	Sidney Delaware	Unadilla	PEM	A3, C3		2, 3	F3	Mixed forb wet meadow swale.



Table 4.1-1. Wetlands Delineated within the Study Area on Accessible Land Parcels from September 6, 2013 to June 3, 2014.

Wetland ID	Latitude Longitude ^a	Township County	USGS Quad ^b	Class ^c	Wetland Hydrology Indicator		Hydrophytic Vegetation Indicator	Hydric Soil Indicator	Wetland Description, Vegetative Community Type
					Primary	Secondary			
DE-1C-W344	42.503553 -74.72519	Harpersfield Delaware	Charlotteville	PFO	A2, A3, B9, C3	B10	2, 3	F3	Mixed hardwood palustrine swale.
DE-1C-W345	42.434399 -74.90266	Davenport Delaware	West Davenport	PSS	B9	B10	2, 3	Other	Mixed hardwood shrub swamp.
DE-1C-W346	42.446034 -74.86777	Davenport Delaware	Davenport	PEM	A3, B9, C3		2, 3	F3	Mixed graminoid-forb wet meadow clearing.
DE-1C-W350	42.434861 -74.90090	Davenport Delaware	West Davenport	PEM	A3, C3		2, 3	F3	Mixed graminoid, open field, wet meadow.
DE-1C-W351	42.434721 -74.90107	Davenport Delaware	West Davenport	PEM	C3		2, 3	F3	Mixed graminoid, open field, wet meadow.
DE-1C-W353	42.435130 -74.90158	Davenport Delaware	West Davenport	PEM	A3, C3		2, 3	F3	Disturbed wet meadow.
DE-1C-W354	42.433864 -74.90432	Davenport Delaware	West Davenport	PFO	A3	B10	2, 3	F2	Mixed hardwood palustrine slope-seep.
DE-1C-W363	42.375772 -75.14748	Franklin Delaware	Franklin	PSS	A2, A3, C3	B10, D2	2, 3	F3	Mixed shrub-shrub swamp and mixed forb wet meadow.
				PEM	A2, A3, C3		2, 3	F3	
DE-1C-W364	42.374271 -75.15453	Franklin Delaware	Franklin	PEM	A2, A3	D2	2, 3	F1	Toe of slope wet meadow swale.
DE-1C-W371	42.41949 -75.00725	Davenport Delaware	Oneonta	PSS	A2, A3	B10	2, 3	F3	Willow thicket.
DE-1C-W375A	42.423173 -74.98797	Davenport Delaware	West Davenport	PFO	A2, A3	B10	2, 3	F3, F21	Red maple - white pine palustrine forest.
DE-1C-W376	42.422456 -74.99003	Davenport Delaware	West Davenport	PFO	A3, B9	B10	Problematic	F3, F21	Red maple - northern hardwood palustrine forest.
DE-1C-W377	42.424606 -74.98844	Davenport Delaware	West Davenport	PSS	A1, A2, A3	B10	2, 3	F3, F21	Meadowsweet - mixed forb wet meadow.



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Wetland ID	Latitude Longitude ^a	Township County	USGS Quad ^b	Class ^c	Wetland Hydrology Indicator		Hydrophytic Vegetation Indicator	Hydric Soil Indicator	Wetland Description, Vegetative Community Type
					Primary	Secondary			
DE-1G-W011*	42.454819 -74.83290	Davenport Delaware	Davenport	PFO	A3, B9	B10, D4	2	F3	Hemlock-northern hardwood swamp/depression.
DE-1H-W268*	42.424090 -75.07132	Franklin Delaware	Oneonta	PSS PEM	A1, A2, A3, C3 A1, A2, A3, C3	B10 B10	1, 2, 3 1, 2, 3	F3 F3	Mixed shrub-scrub and wet meadow created by beaver dammed stream.
DE-1H-W268A*	42.424090 -75.07132	Franklin Delaware	Oneonta	PSS	A1, A2, A3, C3	B10	1, 2, 3	F3	Mixed shrub-scrub created by beaver dammed stream. Same datasheet as DE-1H-W268-WET1.
DE-1N-W005*	42.449344 -74.86295	Davenport Delaware	Davenport	PFO	B9	D4	2, 3	F3	Red maple-hardwood swamp.
DE-1N-W156A*	42.456441 -74.82791	Davenport Delaware	Davenport	PFO	A1, A2, A3, B9 C1	B10	2, 3	A2	Hemlock-northern hardwood swamp.
DE-1P-W128A*	42.490226 -74.76086	Harpersfield Delaware	Davenport	PSS	A1, A3		3	F3	Willow thicket.
DE-1W-W127*	42.42360 -75.02015	Davenport Delaware	Oneonta	PEM	A3, C3	D2	2, 3	F21	Open field wet meadow.
DE-1A-W484	42.455944 -74.89801	Davenport Delaware	West Davenport	PEM	A1, A3, C3,	C9	2, 3	F3	Open field wet meadow.
DE-1A-W485	42.456383 -74.89792	Davenport Delaware	West Davenport	PEM	A1, C3,	C9	2, 3	F3	Open field wet meadow.
DE-1A-W486	42.456334 -74.89874	Davenport Delaware	West Davenport	PEM	A1, A3, B7, C3		2, 3	F3	Open field wet meadow.
DE-1A-W487	42.455926 -74.89839	Davenport Delaware	West Davenport	PEM	A2, A3, B7, C3		2, 3	F3	Open field wet meadow.
DE-1A-W	42.456724 -74.89960	Davenport Delaware	West Davenport	PEM	A2, A3, B7, C3	B10	2, 3	F3	Open field wet meadow.
DE-1W-W129*	42.496621 -74.74874	Harpersfield Delaware	Harpersfield	PFO	A3	B10, D4	Problematic	F21	Hemlock-hardwood swamp clearing.



Table 4.1-1. Wetlands Delineated within the Study Area on Accessible Land Parcels from September 6, 2013 to June 3, 2014.

Wetland ID	Latitude Longitude ^a	Township County	USGS Quad ^b	Class ^c	Wetland Hydrology Indicator		Hydrophytic Vegetation Indicator	Hydric Soil Indicator	Wetland Description, Vegetative Community Type
					Primary	Secondary			
OT-1C-W001	42.472838 -74.98855	Otsego	West Davenport	PEM	A1, C3,	D2	2, 3	F3	Open field wet meadow.
SC-1A-W160A	42.708696 -74.29724	Schoharie Schoharie	Schoharie	PFO	A3, B9	B10	2, 3	F3	Pine-hardwood swamp-swale.
SC-1A-W459	42.704264 -74.31089	Schoharie Schoharie	Schoharie	PEM	A2, A3	B10	2, 3	F3	Mixed forb wet meadow swale.
SC-1A-W460	42.537409 -74.63937	Jefferson Schoharie	Charlotteville	PFO	A3	B10	2, 3	F3	Hemlock - northern hardwood palustrine forest and adjacent wet meadow.
				PEM	A2, A3, C3	B10	2, 3	F3	
SC-1A-W464	42.591322 -74.56547	Summit Schoharie	Summit	PSS	A3	B10	2, 3	F3	Meadowsweet thicket.
SC-1C-W172A	42.703371 -74.26672	Schoharie Schoharie	Schoharie	PEM	C3		2, 3	F3	Dogwood dominant shrub-swamp with adjacent monotypic wet meadow.
				PSS	C3		2, 3	F3	
SC-1C-W459	42.553950 -74.61856	Summit Schoharie	Summit	PFO	A2, A3, C3		2, 3	F3	Red maple-hardwood swamp depression.
SC-1Q-W425	42.642552 -74.53235	Richmondville Schoharie	Richmondville	PFO	A1, A2, A3, C1,	B10, D2	2, 3	A4, F3	Hardwood swamp depression. Open field wet meadow.
				PEM	A1, A2, A3, C1,	B10, D2	2, 3	F3	
SC-1Q-W426	42.644338 -74.53190	Richmondville Schoharie	Richmondville	PEM	A2, A3, C3	B10, D4,	3	F3	Open field wet meadow.

a: Coordinates of latitude and longitude based on UTM Zone 18 decimal degrees.

b: USGS 7.5-Minute Topographic Quadrangle Maps (1:24000).

c: Cowardin et al (1979) wetland classifications: PEM = Palustrine Emergent Wetland; PSS = Palustrine Scrub-Shrub Wetland; PFO = Palustrine Forested Wetland.

* NYDEC regulated wetlands outside of workspace but have 100' adjacent area buffer impacts.

Wetland outside of, but immediately adjacent (within 5') to workspace limits of disturbance for an access road or contractor yard.



Table 4.2-1. Waterbodies Delineated within the Study Area on Accessible Land Parcels from September 6, 2013 to June 3, 2014.

Waterbody ID	Name ^a	Latitude Longitude ^b	Township County	USGS Quad ^c	Type ^d	Waterbody Description ^e
BR-1C-S210	Fly Creek	42.020878 -75.52564	Sanford Broome	Gulf Summit	I	Moderate quality tributary associated with wetland BR-1C-W263.
BR-1C-S211	UNT Fly Creek	42.020431 -75.52584	Sanford Broome	Gulf Summit	P	Moderate quality tributary associated with wetland BR-1C-W263.
BR-1C-S230	UNT Cascade Creek	42.009816 -75.52627	Sanford Broome	Gulf Summit	E	Moderate quality stream.
BR-1C-S230A	UNT Cascade Creek	42.009838 -75.52623	Sanford Broome	Gulf Summit	E	Moderate quality tributary to BR-1C-S230.
BR-1S-S207C	UNT Cascade Creek	42.011192 -75.52571	Sanford Broome	Gulf Summit	P	Moderate quality, natural tributary to BR-1S-S207.
BR-1S-S207D	UNT Cascade Creek	42.011114 -75.52587	Sanford Broome	Gulf Summit	E	Moderate quality tributary to BR-1S-S207 associated with wetland BR-1C-W260.
BR-1S-S207E	UNT Cascade Creek	42.011207 -75.52590	Sanford Broome	Gulf Summit	E	Moderate quality tributary to BR-1S-S207 associated with wetland BR-1C-W260.
CH-1C-S010F	UNT Bennettsville Creek	42.261584 -75.46229	Bainbridge Chenango	Sidney	E	Floodplain oxbow.
DE-1A-S297	UNT Ouleout Creek	42.353352 -75.20543	Sidney Delaware	Franklin	I	Low quality, manipulated drainage ditch associated with wetland DE-1A-W463.
DE-1A-S301	UNT Susquehanna River	42.354578 -75.23166	Davenport Delaware	Franklin	I	Low quality, diffuse tributary associated with wetlands DE-1A-W473; W474; W475.
DE-1B-S263A	UNT Charlotte Creek	42.423880 -74.96536	Davenport Delaware	West Davenport	I	High quality intermittent tributary associated with wetland DE-1B-W327.
DE-1B-S263B	UNT Charlotte Creek	42.423842 -74.96527	Davenport Delaware	West Davenport	I	High quality intermittent tributary associated with wetland DE-1B-W327.
DE-1C-S273A	UNT Ouleout Creek	42.374895 -75.15183	Franklin Delaware	Franklin	P	Moderate quality tributary associated with wetland DE-1C-W363.
DE-1C-S274	UNT Ouleout Creek	42.403596 -75.09168	Franklin Delaware	Oneonta	I	Moderate quality tributary associated with wetland DE-1C-W339.



Table 4.2-1. Waterbodies Delineated within the Study Area on Accessible Land Parcels from September 6, 2013 to June 3, 2014.

Waterbody ID	Name ^a	Latitude Longitude ^b	Township County	USGS Quad ^c	Type ^d	Waterbody Description ^e
DE-1C-S275	UNT Ouleout Creek	42.403065 -75.09219	Franklin Delaware	Oneonta	I	Moderate quality tributary associated with wetland DE-1C-W329.
DE-1C-S283	UNT Masonville Creek	42.286057 -75.35866	Sidney Delaware	Unadilla	E	Moderate quality stream associated with wetland DE-1C-W338.
DE-1C-S284	UNT Masonville Creek	42.286176 -75.35776	Sidney Delaware	Unadilla	P	Moderate quality, natural stream.
DE-1C-S287	UNT Ouleout Creek	42.362419 -75.18722	Franklin Delaware	Franklin	E	Moderate quality, braided stream channel associated with wetland DE-1D-W281.
DE-1C-S289	UNT Ouleout Creek	42.422618 -74.98903	Davenport Delaware	West Davenport	I	Low quality drainage swale in old logging road associated with DE-1M-W154.
DE-1C-S290	UNT Ouleout Creek	42.422111 -74.99008	Davenport Delaware	West Davenport	E	Low quality erosional rill associated with wetland DE-1C-W376.
DE-1C-S303	UNT Ouleout Creek	42.350208 -75.24490	Sidney Delaware	Franklin	I	Manmade roadside ditch.
DE-1G-S005	UNT Charlotte Creek	42.504018 -74.72490	Harpersfield Delaware	Unadilla	I	Moderate quality tributary to DE-1G-S005.
DE-1G-S201A	UNT Kortright Creek	42.434071 -74.90186	Davenport Delaware	West Davenport	I	Moderate quality seep associated with wetland DE-1I-W245.
DE-1I-S201	Kortright Creek	42.433911 -74.90211	Davenport Delaware	West Davenport	P	High quality, naturally cobbled stream.
DE-1L-S210B	UNT Charlotte Creek	42.423257 -74.96110	Davenport Delaware	West Davenport	E	Low quality ephemeral drainage swale.
DE-1L-S210C	UNT Charlotte Creek	42.423212 -74.96095	Davenport Delaware	West Davenport	I	Moderate quality tributary associated with wetland DE-1A-W248A.
SC-1A-S366#	UNT Schoharie Creek	043 72	Schoharie Schoharie	Schoharie	E	Low quality excavated ditch conveys drainage from SC-1A-W292K to SC-1A-W459.
SC-1A-S370	UNT Clapper Hollow Creek	42.537442 -74.63928	Jefferson Delaware	Charlotteville	P	Moderate quality, natural tributary associated with wetland SC-1A-W460.

**Table 4.2-1. Waterbodies Delineated within the Study Area on Accessible Land Parcels from September 6, 2013 to June 3, 2014.**

Waterbody ID	Name ^a	Latitude Longitude ^b	Township County	USGS Quad ^c	Type ^d	Waterbody Description ^e
SC-1A-S370C	UNT Clapper Hollow Creek	42.537409 -74.63954	Jefferson Delaware	Charlottesville	I	Moderate quality, natural tributary associated with wetland SC-1A-W460.
SC-1A-S370F	UNT Clapper Hollow Creek	42.537389 -74.63919	Jefferson Delaware	Charlottesville	I	Moderate quality, natural tributary associated with wetland SC-1A-W460.

- a: Waterbody names are derived from USGS 7.5-Minute Topographic Quadrangle Maps (1:24000). An unnamed (UNT) USGS tributary may be supplemented by other local, state, or federal topographic sources. If the waterbody name is not designated by other sources, it will be given the designation of the waterbody to which it flows.
- b: Coordinates of latitude and longitude based on UTM Zone 18 decimal degrees.
- c: USGS 7.5-Minute Topographic Quadrangle Maps (1:24000).
- d: P = perennial; S = seasonal; I = intermittent; POW = open water; E = Ephemeral.
- e: Waterbody Description based on physical attributes observed during desk top review and field observations.
- # Waterbody outside of, but immediately adjacent (within 5') to workspace limits of disturbance for an access road or contractor yard.



5.0 References

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WETLAND DELINEATION REPORT
SUBMITTAL NO. 3

ATTACHMENT 1

CONSTITUTION PIPELINE



CONSTITUTION PIPELINE

USGS SITE LOCUS MAPS
(REFER TO ATTACHMENT B, FIGURE 2)

WETLAND DELINEATION REPORT
SUBMITTAL NO. 3

ATTACHMENT 2

CONSTITUTION PIPELINE



CONSTITUTION PIPELINE

WETLAND DATA SHEETS AND PHOTOGRAPHS

BROOME COUNTY

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 26.38 City/County: Broome Sampling Date: 2013/10/09
Applicant/Owner: Williams State: NY Sampling Point: BR-1C-W260-WET1
Investigator(s): RR PL USGS Quad: Gulf Summit Section, Township, Range: Sanford
Landform: Drainageway Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 3
Subregion: Middle Atlantic Latitude: 42.011112 Longitude: -75.52618 Datum: NAD 1983
Soil Map Unit Name: Cattaraugus channery silt loam, 5 to 15 percent slopes NWI Classification: Not Mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: <u>PFO</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input checked="" type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input checked="" type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☒ Yes ☐ No Depth (inches): 0
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Acer rubrum</i>	25	YES	FAC
<i>Acer saccharum</i>	20	YES	FACU
Total Cover: 45			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Carex crinita</i>	30	YES	OBL
<i>Impatiens capensis</i>	20	YES	FACW
<i>Glyceria striata</i>	10	NO	OBL
<i>Persicaria sagittata</i>	10	NO	OBL
<i>Symphyotrichum novi-belgii</i>	15	NO	FACW
<i>Rumex obtusifolius</i>	5	NO	FAC
<i>Epilobium coloratum</i>	5	NO	OBL
<i>Carex scoparia</i>	5	NO	FACW
Total Cover: 100			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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>4</u> (B) Percent of Dominant Species that are OBL, FACW, or FAC: <u>75</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: <u>55</u></td> <td>x 1 = <u>55</u></td> </tr> <tr> <td>FACW Species: <u>40</u></td> <td>x 2 = <u>80</u></td> </tr> <tr> <td>FAC Species: <u>30</u></td> <td>x 3 = <u>90</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>145</u> (A)</td> <td><u>305</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.10</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: <u>55</u>	x 1 = <u>55</u>	FACW Species: <u>40</u>	x 2 = <u>80</u>	FAC Species: <u>30</u>	x 3 = <u>90</u>	FACU Species: <u>20</u>	x 4 = <u>80</u>	UPL Species: <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>145</u> (A)	<u>305</u> (B)	Prevalence Index = B/A = <u>2.10</u>	
Total % Cover of:	Multiply by:																
OBL Species: <u>55</u>	x 1 = <u>55</u>																
FACW Species: <u>40</u>	x 2 = <u>80</u>																
FAC Species: <u>30</u>	x 3 = <u>90</u>																
FACU Species: <u>20</u>	x 4 = <u>80</u>																
UPL Species: <u>0</u>	x 5 = <u>0</u>																
Column Totals: <u>145</u> (A)	<u>305</u> (B)																
Prevalence Index = B/A = <u>2.10</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-3	10YR 4/2	100					FINE SANDY LOAM	
3-14	10YR 4/1	97	7.5YR 4/4	3	C	PL	LOAM	


¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
--	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks:	

Photos	
	
Photo Name: BR1CW260_100913_WET1E.jpg	Note: BR-1C-W260-WET1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 26.37 City/County: Broome Sampling Date: 2013/10/09
Applicant/Owner: Williams State: NY Sampling Point: BR-1C-W260-UPL1
Investigator(s): RR PL USGS Quad: Gulf Summit Section, Township, Range: Sanford
Landform: Side slope Local Relief: ☐ Concave ☒ Convex ☐ None Slope (%): 5
Subregion: Middle Atlantic Latitude: 42.010971 Longitude: -75.52597 Datum: NAD 1983
Soil Map Unit Name: Cattaraugus channery silt loam, 5 to 15 percent slopes NWI Classification: Not Mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is the Sampled Area within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Remarks: <u>Upland plot</u>	
Field Wetland Classification:	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☐ Yes ☒ No Depth (inches):

Wetland Hydrology Present? ☐ Yes ☒ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Acer saccharum</i>	50	YES	FACU
<i>Prunus serotina</i>	10	NO	FACU
<i>Fagus grandifolia</i>	10	NO	FACU
<i>Acer rubrum</i>	5	NO	FAC
Total Cover: 75			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Acer saccharum</i>	5	YES	FACU
<i>Acer pensylvanicum</i>	5	YES	FACU
Total Cover: 10			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Dryopteris intermedia</i>	20	YES	FAC
<i>Rubus idaeus</i>	3	NO	FACU
<i>Dennstaedtia punctillobula</i>	15	YES	UPL
Total Cover: 38			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <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>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC Species: <u>25</u></td> <td>x 3 = <u>75</u></td> </tr> <tr> <td>FACU Species: <u>83</u></td> <td>x 4 = <u>332</u></td> </tr> <tr> <td>UPL Species: <u>15</u></td> <td>x 5 = <u>75</u></td> </tr> <tr> <td>Column Totals: <u>123</u> (A)</td> <td><u>482</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = <u>3.92</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>25</u>	x 3 = <u>75</u>	FACU Species: <u>83</u>	x 4 = <u>332</u>	UPL Species: <u>15</u>	x 5 = <u>75</u>	Column Totals: <u>123</u> (A)	<u>482</u> (B)	Prevalence Index = B/A = <u>3.92</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>25</u>	x 3 = <u>75</u>																
FACU Species: <u>83</u>	x 4 = <u>332</u>																
UPL Species: <u>15</u>	x 5 = <u>75</u>																
Column Totals: <u>123</u> (A)	<u>482</u> (B)																
Prevalence Index = B/A = <u>3.92</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-2	10YR 2/1	100					SILT LOAM	
2-14	7.5YR 2.5/3	100					SILT LOAM	
14-18	7.5YR 4/6	100					SILT LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- | | |
|---|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Stratified Layers (A5) | <input type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sandy Redox (S5) | |
| <input type="checkbox"/> Stripped Matrix (S6) | |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | |

Indicators for Problematic Hydric Soils

- | |
|--|
| <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) |
| <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) |
| <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) |
| <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) |
| <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) |
| <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| <input type="checkbox"/> Red Parent Material (F21) |
| <input type="checkbox"/> Very Shallow Dark Surface (TF12) |
| <input type="checkbox"/> Other (Explain in Remarks) |

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? ☐ Yes ☒ No

Remarks:

Photos

Photo Name: BR1CW260_100913_UPL1S.jpg

Note: BR-1C-W260-UPL1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost City/County: Broome Sampling Date: 2013/10/24
Applicant/Owner: Williams State: NY Sampling Point: BR-1C-W261-WET1
Investigator(s): RR;KH USGS Quad: North Sanford Section, Township, Range: Sanford
Landform: depression in cornfield Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 0
Subregion: Middle Atlantic Latitude: 42.137884 Longitude: -75.45602 Datum: NAD 1988
Soil Map Unit Name: Middlebury silt loam NWI Classification: Not Mapped

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? ☐ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: <u>PEM</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☐ Yes ☒ No Depth (inches):

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Phalaris arundinacea</i>	70	YES	FACW
<i>Cyperus esculentus</i>	30	YES	FACW
Total Cover: 100			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

<p>Dominance Test Worksheet:</p> <p>Number of Dominant Species that are OBL, FACW, or FAC: <u>2</u> (A)</p> <p>Total Number of Dominant Species Across All Strata: <u>2</u> (B)</p> <p>Percent of Dominant Species that are OBL, FACW, or FAC: <u>100</u> (A/B)</p>	<p>Prevalence Index Worksheet:</p> <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>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>100</u> (A)</td> <td><u>200</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.00</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: <u>0</u>	x 1 = <u>0</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>100</u> (A)	<u>200</u> (B)	Prevalence Index = B/A = <u>2.00</u>	
Total % Cover of:	Multiply by:																
OBL Species: <u>0</u>	x 1 = <u>0</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>100</u> (A)	<u>200</u> (B)																
Prevalence Index = B/A = <u>2.00</u>																	

<p>Hydrophytic Vegetation Indicators:</p> <p><input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation</p> <p><input checked="" type="checkbox"/> 2 - Dominance Test is > 50%</p> <p><input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0</p> <p><input type="checkbox"/> 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)</p> <p><input type="checkbox"/> Problematic Hydrophytic Vegetation¹ (Explain)</p> <p>¹Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.</p>	<p style="text-align: center; font-size: 1.2em;">Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>Remarks:</p>	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-4	10YR 4/2	95	7.5YR 4/6	5	C	PL	SILT LOAM	
4-18	5Y 5/1	80	7.5YR 4/6	20	C	PL	SILT LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- | | |
|---|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Stratified Layers (A5) | <input checked="" type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sandy Redox (S5) | |
| <input type="checkbox"/> Stripped Matrix (S6) | |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | |

Indicators for Problematic Hydric Soils

- ☐ 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- ☐ Coast: Prairie Redox (A16) (LRR K, L, R)
- ☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- ☐ Dark Surface (S7) (LRR K, L, M)
- ☐ Polyvalue Below Surface (S8) (LRR K, L)
- ☐ Thin Dark Surface (S9) (LRR K, L)
- ☐ Iron-Manganese Masses (F12) (LRR K, L, R)
- ☐ Piedmont Floodplain Soils (F19) (MLRA 149B)
- ☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- ☐ Red Parent Material (F21)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks:	

Photos



Photo Name: BR1CW261_102413_WET1SE.jpg

Note: BR-1C-W261-WET1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost City/County: Broome Sampling Date: 2013/10/24
Applicant/Owner: Williams State: NY Sampling Point: BR-1C-W261-UPL1
Investigator(s): RR;KH USGS Quad: North Sanford Section, Township, Range: Sanford
Landform: Floodplain Local Relief: ☐ Concave ☒ Convex ☐ None Slope (%): 0
Subregion: Middle Atlantic Latitude: 42.139317 Longitude: -75.45597 Datum: NAD 1988
Soil Map Unit Name: Cattaraugus channery silt loam, 5 to 15 percent slopes NWI Classification: Not Mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is the Sampled Area within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Remarks: <u>Upland plot</u>	
Field Wetland Classification:	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☐ Yes ☒ No Depth (inches):

Wetland Hydrology Present? ☐ Yes ☒ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Zea mays</i>	50	YES	UPL
<i>Trifolium repens</i>	2	NO	FACU
Total Cover: 52			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <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>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>2</u></td> <td>x 4 = <u>8</u></td> </tr> <tr> <td>UPL Species: <u>50</u></td> <td>x 5 = <u>250</u></td> </tr> <tr> <td>Column Totals: <u>52</u> (A)</td> <td><u>258</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>4.96</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>2</u>	x 4 = <u>8</u>	UPL Species: <u>50</u>	x 5 = <u>250</u>	Column Totals: <u>52</u> (A)	<u>258</u> (B)	Prevalence Index = B/A = <u>4.96</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>2</u>	x 4 = <u>8</u>																
UPL Species: <u>50</u>	x 5 = <u>250</u>																
Column Totals: <u>52</u> (A)	<u>258</u> (B)																
Prevalence Index = B/A = <u>4.96</u>																	

Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Remarks:	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-2	10YR 4/4	100				None	SILT LOAM	
2-18	10YR 4/6	100				None	SILT LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- | | |
|---|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Stratified Layers (A5) | <input type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sandy Redox (S5) | |
| <input type="checkbox"/> Stripped Matrix (S6) | |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | |

Indicators for Problematic Hydric Soils

- ☐ 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- ☐ Coast: Prairie Redox (A16) (LRR K, L, R)
- ☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- ☐ Dark Surface (S7) (LRR K, L, M)
- ☐ Polyvalue Below Surface (S8) (LRR K, L)
- ☐ Thin Dark Surface (S9) (LRR K, L)
- ☐ Iron-Manganese Masses (F12) (LRR K, L, R)
- ☐ Piedmont Floodplain Soils (F19) (MLRA 149B)
- ☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- ☐ Red Parent Material (F21)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Remarks: _____ 	

Photos



Photo Name: BR1CW261_102413_UPL1S.jpg

Note: BR-1C-W261-UPL1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 27.32850 City/County: Broome Sampling Date: 2014/04/25
Applicant/Owner: Williams State: NY Sampling Point: BR-1C-W263-WET1
Investigator(s): PL, RR USGS Quad: Gulf Summit Section, Township, Range: Sanford
Landform: Drainageway Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 0
Subregion: Middle Atlantic Latitude: 42.020800 Longitude: -75.52560 Datum: NAD 1983
Soil Map Unit Name: Wayland silt loam NWI Classification: Not mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: <u>PEM</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input checked="" type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input checked="" type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☒ Yes ☐ No Depth (inches): 6
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Alnus incana</i>	15	YES	FACW
Total Cover: 15			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Phalaris arundinacea</i>	85	YES	FACW
<i>Onoclea sensibilis</i>	3	NO	FACW
Total Cover: 88			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <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>103</u></td> <td>x 2 = <u>206</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>103</u> (A)</td> <td><u>206</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.00</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: <u>0</u>	x 1 = <u>0</u>	FACW Species: <u>103</u>	x 2 = <u>206</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>103</u> (A)	<u>206</u> (B)	Prevalence Index = B/A = <u>2.00</u>	
Total % Cover of:	Multiply by:																
OBL Species: <u>0</u>	x 1 = <u>0</u>																
FACW Species: <u>103</u>	x 2 = <u>206</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>103</u> (A)	<u>206</u> (B)																
Prevalence Index = B/A = <u>2.00</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-14	2.5Y 3/2	97	2.5Y 3/3	3	C	PL	FINE SANDY LOAM	
14-22	2.5Y 4/2	80	10YR 3/4	20	C	M	FINE SANDY LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
--	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks:	

Photos	
	
Photo Name: BR1CW263_042514_WET1N.jpg	Note: BR-1C-W263-WET1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 27.31239 City/County: Broome Sampling Date: 2014/04/25
Applicant/Owner: Williams State: NY Sampling Point: BR-1C-W263-WET2
Investigator(s): PL, RR USGS Quad: Gulf Summit Section, Township, Range: Sanford
Landform: Floodplain, terrace Local Relief: ☐ Concave ☐ Convex ☒ None Slope (%): 0
Subregion: Middle Atlantic Latitude: 42.020551 Longitude: -75.52605 Datum: NAD 1983
Soil Map Unit Name: Wayland silt loam NWI Classification: Not mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: PSS	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input checked="" type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☒ Yes ☐ No Depth (inches): 10
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Malus pumila</i>	10	YES	UPL
Total Cover: 10			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Alnus incana</i>	8	NO	FACW
<i>Salix sp</i>	55	YES	FAC
<i>Spiraea alba</i>	8	NO	FACW
Total Cover: 71			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Onoclea sensibilis</i>	65	YES	FACW
<i>Solidago sp</i>	5	NO	FAC
Total Cover: 70			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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>67</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <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>81</u></td> <td>x 2 = <u>162</u></td> </tr> <tr> <td>FAC Species: <u>60</u></td> <td>x 3 = <u>180</u></td> </tr> <tr> <td>FACU Species: <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL Species: <u>10</u></td> <td>x 5 = <u>50</u></td> </tr> <tr> <td>Column Totals: <u>151</u> (A)</td> <td><u>392</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = <u>2.60</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: <u>0</u>	x 1 = <u>0</u>	FACW Species: <u>81</u>	x 2 = <u>162</u>	FAC Species: <u>60</u>	x 3 = <u>180</u>	FACU Species: <u>0</u>	x 4 = <u>0</u>	UPL Species: <u>10</u>	x 5 = <u>50</u>	Column Totals: <u>151</u> (A)	<u>392</u> (B)	Prevalence Index = B/A = <u>2.60</u>	
Total % Cover of:	Multiply by:																
OBL Species: <u>0</u>	x 1 = <u>0</u>																
FACW Species: <u>81</u>	x 2 = <u>162</u>																
FAC Species: <u>60</u>	x 3 = <u>180</u>																
FACU Species: <u>0</u>	x 4 = <u>0</u>																
UPL Species: <u>10</u>	x 5 = <u>50</u>																
Column Totals: <u>151</u> (A)	<u>392</u> (B)																
Prevalence Index = B/A = <u>2.60</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-8	2.5Y 3/2	100				None	FINE SANDY LOAM	
8-22	2.5Y 4/1	80	10YR 3/4	20	C	M	FINE SANDY LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
--	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks: 	

Photos	
<div data-bbox="461 548 1089 1018" data-label="Image"> </div> <div data-bbox="66 1024 1485 1062"> <div> Photo Name: BR1CW263_042514_WET2NE.jpg </div> <div> Note: BR-1C-W263-WET2 </div> </div>	

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 27.28764 City/County: Broome Sampling Date: 2014/04/25
Applicant/Owner: Williams State: NY Sampling Point: BR-1C-W263-UPL1
Investigator(s): PL, RR USGS Quad: Gulf Summit Section, Township, Range: Sanford
Landform: Gravel road shoulder Local Relief: ☐ Concave ☒ Convex ☐ None Slope (%): _____
Subregion: Middle Atlantic Latitude: 42.020183 Longitude: -75.52578 Datum: NAD 1983
Soil Map Unit Name: Culvers channery silt loam, 8 to 15 percent slopes NWI Classification: PSS1A

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is the Sampled Area within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Remarks: <u>UPLAND ROAD SHOULDER</u>	
Field Wetland Classification:	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches): _____
Water Table Present: ☐ Yes ☒ No Depth (inches): _____
Saturation Present: ☐ Yes ☒ No Depth (inches): _____

Wetland Hydrology Present? ☐ Yes ☒ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Sapling Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Vine Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

Dominance Test Worksheet: Number of Dominant Species that are OBL, FACW, or FAC: _____ 0 (A) Total Number of Dominant Species Across All Strata: _____ 0 (B) Percent of Dominant Species that are OBL, FACW, or FAC: _____ (A/B)	Prevalence Index Worksheet: <div style="display: flex; justify-content: space-between;"> Total % Cover of: _____ Multiply by: _____ </div> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">OBL Species:</td> <td style="width: 10%; text-align: center;">0</td> <td style="width: 10%;">x 1 =</td> <td style="width: 40%; text-align: center;">0</td> </tr> <tr> <td>FACW Species:</td> <td style="text-align: center;">0</td> <td>x 2 =</td> <td style="text-align: center;">0</td> </tr> <tr> <td>FAC Species:</td> <td style="text-align: center;">0</td> <td>x 3 =</td> <td style="text-align: center;">0</td> </tr> <tr> <td>FACU Species:</td> <td style="text-align: center;">0</td> <td>x 4 =</td> <td style="text-align: center;">0</td> </tr> <tr> <td>UPL Species:</td> <td style="text-align: center;">0</td> <td>x 5 =</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Column Totals:</td> <td style="text-align: center;">0 (A)</td> <td></td> <td style="text-align: center;">0 (B)</td> </tr> </table> <p style="text-align: right;">Prevalence Index = B/A = _____</p>	OBL Species:	0	x 1 =	0	FACW Species:	0	x 2 =	0	FAC Species:	0	x 3 =	0	FACU Species:	0	x 4 =	0	UPL Species:	0	x 5 =	0	Column Totals:	0 (A)		0 (B)
OBL Species:	0	x 1 =	0																						
FACW Species:	0	x 2 =	0																						
FAC Species:	0	x 3 =	0																						
FACU Species:	0	x 4 =	0																						
UPL Species:	0	x 5 =	0																						
Column Totals:	0 (A)		0 (B)																						

Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) <small>¹Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.</small>	<div style="text-align: center; font-size: 1.2em;"> Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No </div>
Remarks:	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-20	2.5Y 3/3	100				None	LOAMY SAND	With gravel

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- | | |
|---|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Stratified Layers (A5) | <input type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sandy Redox (S5) | |
| <input type="checkbox"/> Stripped Matrix (S6) | |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | |

Indicators for Problematic Hydric Soils

- ☐ 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- ☐ Coast: Prairie Redox (A16) (LRR K, L, R)
- ☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- ☐ Dark Surface (S7) (LRR K, L, M)
- ☐ Polyvalue Below Surface (S8) (LRR K, L)
- ☐ Thin Dark Surface (S9) (LRR K, L)
- ☐ Iron-Manganese Masses (F12) (LRR K, L, R)
- ☐ Piedmont Floodplain Soils (F19) (MLRA 149B)
- ☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- ☐ Red Parent Material (F21)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present):

Type: _____
Depth (inches): _____

Hydric Soil Present? ☐ Yes ☒ No

Remarks:

Fill material and gravel

Photos



Photo Name: BR1CW263_042514_UPL1W.jpg

Note: BR-1C-W263-UPL1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 30.39879 City/County: Broome Sampling Date: 2014/05/30
Applicant/Owner: Williams State: _____ Sampling Point: BR-1C-W268-WET1
Investigator(s): RR TS USGS Quad: Gulf Summit Section, Township, Range: Sanford
Landform: DEPRESSION ON TERRACE Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 0
Subregion: Middle Atlantic Latitude: 42.056956 Longitude: -75.50678 Datum: NAD 1983
Soil Map Unit Name: Morris channery silt loam, 8 to 15 percent slopes NWI Classification: Not mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: <u>Use upland plot BR-1C-W267-UPL1</u>	
Field Wetland Classification: <u>PFO</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input checked="" type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input checked="" type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☒ Yes ☐ No Depth (inches): 1
Water Table Present: ☒ Yes ☐ No Depth (inches): 0
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Tsuga canadensis</i>	80	YES	FACU
<i>Acer rubrum</i>	20	YES	FAC
Total Cover: 100			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Impatiens capensis</i>	5	YES	FACW
<i>Dryopteris intermedia</i>	5	YES	FAC
<i>Oxalis montana</i>	1	NO	FACU
Total Cover: 11			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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>4</u> (B) Percent of Dominant Species that are OBL, FACW, or FAC: <u>75</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <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>5</u></td> <td>x 2 = <u>10</u></td> </tr> <tr> <td>FAC Species: <u>25</u></td> <td>x 3 = <u>75</u></td> </tr> <tr> <td>FACU Species: <u>81</u></td> <td>x 4 = <u>324</u></td> </tr> <tr> <td>UPL Species: <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>111</u> (A)</td> <td><u>409</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>3.68</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>25</u>	x 3 = <u>75</u>	FACU Species: <u>81</u>	x 4 = <u>324</u>	UPL Species: <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>111</u> (A)	<u>409</u> (B)	Prevalence Index = B/A = <u>3.68</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>25</u>	x 3 = <u>75</u>																
FACU Species: <u>81</u>	x 4 = <u>324</u>																
UPL Species: <u>0</u>	x 5 = <u>0</u>																
Column Totals: <u>111</u> (A)	<u>409</u> (B)																
Prevalence Index = B/A = <u>3.68</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-4	2.5Y2.5/1	100					ORGANIC	ORGANIC LOAM
4-12	2.5Y5/1	95	GLE14/10GY	5	D	M	FINE SANDY LOAM	


¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input checked="" type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
--	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: <u>ROCK</u> Depth (inches): <u>12</u>	Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks: AUGER REFUSAL	

Photos	
	
Photo Name: BR1CW268_053014_WET1E.jpg	Note: BR-1C-W268-WET1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 30.38394 City/County: Broome Sampling Date: 2014/05/30
Applicant/Owner: Williams State: _____ Sampling Point: BR-1C-W267-UPL1
Investigator(s): RR TS USGS Quad: Gulf Summit Section, Township, Range: Sanford
Landform: HILLSIDE Local Relief: ☐ Concave ☐ Convex ☒ None Slope (%): 10
Subregion: Middle Atlantic Latitude: 42.056651 Longitude: -75.50665 Datum: NAD 1983
Soil Map Unit Name: Lordstown and Oquaga channery silt loams, 25 to 35 percent slopes NWI Classification: Not mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is the Sampled Area within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Remarks: <u>UPLAND FOREST; also upland plot for BR-1C-W268-WET1</u>	
Field Wetland Classification:	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches): _____
Water Table Present: ☐ Yes ☒ No Depth (inches): _____
Saturation Present: ☐ Yes ☒ No Depth (inches): _____

Wetland Hydrology Present? ☐ Yes ☒ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Tsuga canadensis</i>	70	YES	FACU
<i>Betula lenta</i>	20	YES	FACU
<i>Acer rubrum</i>	10	NO	FAC
Total Cover: 100			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Tsuga canadensis</i>	5	YES	FACU
Total Cover: 5			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Dryopteris intermedia</i>	5	YES	FAC
Total Cover: 5			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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>4</u> (B) Percent of Dominant Species that are OBL, FACW, or FAC: <u>25</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <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>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC Species: <u>15</u></td> <td>x 3 = <u>45</u></td> </tr> <tr> <td>FACU Species: <u>95</u></td> <td>x 4 = <u>380</u></td> </tr> <tr> <td>UPL Species: <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>110</u> (A)</td> <td><u>425</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = <u>3.86</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>15</u>	x 3 = <u>45</u>	FACU Species: <u>95</u>	x 4 = <u>380</u>	UPL Species: <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>110</u> (A)	<u>425</u> (B)	Prevalence Index = B/A = <u>3.86</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>15</u>	x 3 = <u>45</u>																
FACU Species: <u>95</u>	x 4 = <u>380</u>																
UPL Species: <u>0</u>	x 5 = <u>0</u>																
Column Totals: <u>110</u> (A)	<u>425</u> (B)																
Prevalence Index = B/A = <u>3.86</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-2	10YR2/2	100					ORGANIC	
2-8	10YR4/4	100					LOAM	
8-20	10YR5/6	100					LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- | | |
|---|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Stratified Layers (A5) | <input type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sandy Redox (S5) | |
| <input type="checkbox"/> Stripped Matrix (S6) | |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | |

Indicators for Problematic Hydric Soils

- | |
|--|
| <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) |
| <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) |
| <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) |
| <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) |
| <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) |
| <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| <input type="checkbox"/> Red Parent Material (F21) |
| <input type="checkbox"/> Very Shallow Dark Surface (TF12) |
| <input type="checkbox"/> Other (Explain in Remarks) |

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? ☐ Yes ☒ No

Remarks:

Photos

Photo Name: BR1CW267_053014_UPL1E.jpg

Note: BR-1C-W267-UPL1

DELAWARE COUNTY

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 73.5 City/County: Delaware Sampling Date: 2013/06/03
Applicant/Owner: Williams State: NY Sampling Point: DE-1A-W125A-WET1
Investigator(s): PL;KH USGS Quad: Oneonta Section, Township, Range: Franklin
Landform: Drainageway Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 2
Subregion: Middle Atlantic Latitude: 42.416668 Longitude: -75.04953 Datum: NAD1983
Soil Map Unit Name: Onteora and Ontusia soils, 2 to 10 percent slopes, very stony NWI Classification: Not Mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: <u>PFO</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input checked="" type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input checked="" type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Betula alleghaniensis</i>	25	NO	FAC
<i>Pinus strobus</i>	35	YES	FACU
<i>Acer rubrum</i>	40	YES	FAC
Total Cover: 100			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Quercus rubra</i>	8	YES	FACU
<i>Betula alleghaniensis</i>	10	YES	FAC
Total Cover: 18			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Rhamnus frangula</i>	15	YES	FAC
Total Cover: 15			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Onoclea sensibilis</i>	20	YES	FACW
<i>Equisetum palustre</i>	5	NO	FACW
<i>Impatiens capensis</i>	50	YES	FACW
<i>Rubus hispidus</i>	3	NO	FACW
Total Cover: 78			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

Dominance Test Worksheet: Number of Dominant Species that are OBL, FACW, or FAC: 5 (A) Total Number of Dominant Species Across All Strata: 7 (B) Percent of Dominant Species that are OBL, FACW, or FAC: 71 (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: 0</td> <td>x 1 = 0</td> </tr> <tr> <td>FACW Species: 78</td> <td>x 2 = 156</td> </tr> <tr> <td>FAC Species: 90</td> <td>x 3 = 270</td> </tr> <tr> <td>FACU Species: 43</td> <td>x 4 = 172</td> </tr> <tr> <td>UPL Species: 0</td> <td>x 5 = 0</td> </tr> <tr> <td>Column Totals: 211 (A)</td> <td>598 (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = 2.83</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: 0	x 1 = 0	FACW Species: 78	x 2 = 156	FAC Species: 90	x 3 = 270	FACU Species: 43	x 4 = 172	UPL Species: 0	x 5 = 0	Column Totals: 211 (A)	598 (B)	Prevalence Index = B/A = 2.83	
Total % Cover of:	Multiply by:																
OBL Species: 0	x 1 = 0																
FACW Species: 78	x 2 = 156																
FAC Species: 90	x 3 = 270																
FACU Species: 43	x 4 = 172																
UPL Species: 0	x 5 = 0																
Column Totals: 211 (A)	598 (B)																
Prevalence Index = B/A = 2.83																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-6	10YR 3/1	100				None	SILT LOAM	
6-15	5YR 4/2	95	5YR 4/1	5	C	M	SILT LOAM	Organic staining in subsoil

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
--	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks: 	

Photos	
	
Photo Name: DE1AW125A_060313_WET1S.jpg	Note: DE-1A-W125A-WET1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 73.5 City/County: Delaware Sampling Date: 2013/06/03
Applicant/Owner: Williams State: NY Sampling Point: DE-1A-W125A-UPL1
Investigator(s): PL;KH USGS Quad: Oneonta Section, Township, Range: Franklin
Landform: Sideslope Local Relief: ☐ Concave ☒ Convex ☐ None Slope (%): 4
Subregion: Middle Atlantic Latitude: 42.416831 Longitude: -75.04930 Datum: NAD1983
Soil Map Unit Name: Onteora and Ontusia soils, 2 to 10 percent slopes, very stony NWI Classification: Not Mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is the Sampled Area within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Remarks: <u>Upland plot</u>	
Field Wetland Classification:	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☐ Yes ☒ No Depth (inches):

Wetland Hydrology Present? ☐ Yes ☒ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Acer rubrum</i>	10	NO	FAC
<i>Pinus strobus</i>	30	YES	FACU
<i>Quercus rubra</i>	20	YES	FACU
<i>Betula alleghaniensis</i>	15	NO	FAC
<i>Ostrya virginiana</i>	8	NO	FACU
Total Cover: 83			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Betula alleghaniensis</i>	8	YES	FAC
Total Cover: 8			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Maianthemum canadense</i>	10	NO	FACU
<i>Dennstaedtia punctilobula</i>	45	YES	UPL
<i>Thelypteris noveboracensis</i>	15	YES	FAC
Total Cover: 70			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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>5</u> (B) Percent of Dominant Species that are OBL, FACW, or FAC: <u>40</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <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>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC Species: <u>48</u></td> <td>x 3 = <u>144</u></td> </tr> <tr> <td>FACU Species: <u>68</u></td> <td>x 4 = <u>272</u></td> </tr> <tr> <td>UPL Species: <u>45</u></td> <td>x 5 = <u>225</u></td> </tr> <tr> <td>Column Totals: <u>161</u> (A)</td> <td><u>641</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = <u>3.98</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>48</u>	x 3 = <u>144</u>	FACU Species: <u>68</u>	x 4 = <u>272</u>	UPL Species: <u>45</u>	x 5 = <u>225</u>	Column Totals: <u>161</u> (A)	<u>641</u> (B)	Prevalence Index = B/A = <u>3.98</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>48</u>	x 3 = <u>144</u>																
FACU Species: <u>68</u>	x 4 = <u>272</u>																
UPL Species: <u>45</u>	x 5 = <u>225</u>																
Column Totals: <u>161</u> (A)	<u>641</u> (B)																
Prevalence Index = B/A = <u>3.98</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-2	5YR 2.5/1	100				None	FINE SANDY LOAM	
2-7	5YR 4/2	100				None	FINE SANDY LOAM	
7-15+	5YR 3/4	100				None	FINE SANDY LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- | | |
|---|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Stratified Layers (A5) | <input type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sandy Redox (S5) | |
| <input type="checkbox"/> Stripped Matrix (S6) | |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | |

Indicators for Problematic Hydric Soils

- | |
|--|
| <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) |
| <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) |
| <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) |
| <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) |
| <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) |
| <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| <input type="checkbox"/> Red Parent Material (F21) |
| <input type="checkbox"/> Very Shallow Dark Surface (TF12) |
| <input type="checkbox"/> Other (Explain in Remarks) |

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? ☐ Yes ☒ No

Remarks:

Photos

Photo Name: DE1AW125A_060313_UPL1NE.jpg

Note: DE-1A-W125A-UPL1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 73.6 City/County: Delaware Sampling Date: 2013/06/03
Applicant/Owner: Williams State: NY Sampling Point: DE-1A-W125B-WET1
Investigator(s): PL;KH USGS Quad: Oneonta Section, Township, Range: Franklin
Landform: Isolated depression Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 1
Subregion: Middle Atlantic Latitude: 42.416980 Longitude: -75.04896 Datum: NAD1983
Soil Map Unit Name: Willowemoc channery silt loam, 3 to 8 percent slopes NWI Classification: Not Mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: <u>Use Upland plot DE-1A-W125A-UPL1</u>	
Field Wetland Classification: <u>PFO</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input checked="" type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input checked="" type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

organic staining; reduced matrix-tree species not in wetland

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Tsuga canadensis</i>	10	YES	FACU
<i>Fagus grandifolia</i>	40	YES	FACU
Total Cover: 50			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Rhamnus frangula</i>	15	YES	FAC
Total Cover: 15			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Impatiens capensis</i>	5	NO	FACW
<i>Osmunda cinnamomea</i>	30	YES	FACW
<i>Thelypteris novemboracensis</i>	10	NO	FAC
<i>Solidago sp</i>	15	NO	FAC
<i>Carex stricta</i>	25	YES	OBL
Total Cover: 85			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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>5</u> (B) Percent of Dominant Species that are OBL, FACW, or FAC: <u>60</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Total % Cover of:</td> <td style="width: 40%;">Multiply by:</td> </tr> <tr> <td>OBL Species: <u>25</u></td> <td>x 1 = <u>25</u></td> </tr> <tr> <td>FACW Species: <u>35</u></td> <td>x 2 = <u>70</u></td> </tr> <tr> <td>FAC Species: <u>40</u></td> <td>x 3 = <u>120</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>150</u> (A)</td> <td><u>415</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = <u>2.77</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: <u>25</u>	x 1 = <u>25</u>	FACW Species: <u>35</u>	x 2 = <u>70</u>	FAC Species: <u>40</u>	x 3 = <u>120</u>	FACU Species: <u>50</u>	x 4 = <u>200</u>	UPL Species: <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>150</u> (A)	<u>415</u> (B)	Prevalence Index = B/A = <u>2.77</u>	
Total % Cover of:	Multiply by:																
OBL Species: <u>25</u>	x 1 = <u>25</u>																
FACW Species: <u>35</u>	x 2 = <u>70</u>																
FAC Species: <u>40</u>	x 3 = <u>120</u>																
FACU Species: <u>50</u>	x 4 = <u>200</u>																
UPL Species: <u>0</u>	x 5 = <u>0</u>																
Column Totals: <u>150</u> (A)	<u>415</u> (B)																
Prevalence Index = B/A = <u>2.77</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-12	5YR 2.5/1	100				None	SILT LOAM	
12-18	5YR 4/2	90	10YR 3/4	10	C	M	SILT LOAM	Organic staining in subsoil

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
--	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks: 	

Photos	
<div data-bbox="461 550 1089 1018" data-label="Image"> </div> <div data-bbox="66 1026 667 1058" data-label="Text"> Photo Name: DE1AW125B_060313_WET1NW.jpg </div> <div data-bbox="821 1026 1138 1058" data-label="Text"> Note: DE-1A-W125B-WET1 </div>	

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 78.3 City/County: Deleware Sampling Date: 2013/11/06
Applicant/Owner: Williams State: NY Sampling Point: DE-1A-W248A-WET1
Investigator(s): PL;KH USGS Quad: West Davenport Section, Township, Range: Davenport
Landform: floodplain/terrac landscape Local Relief: ☐ Concave ☐ Convex ☒ None Slope (%): 1
Subregion: Middle Atlantic Latitude: 42.423188 Longitude: -74.96092 Datum: NAD 1988
Soil Map Unit Name: Wellsboro channery silt loam, 15 to 25 percent slopes NWI Classification: Not Mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: <u>PEM</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input checked="" type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Rosa multiflora</i>	15	YES	FACU
Total Cover: 15			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Juncus effusus</i>	8	NO	OBL
<i>Epilobium ciliatum</i>	3	NO	FACW
<i>Rumex crispus</i>	2	NO	FAC
<i>Copteris groenlandica</i>	70	YES	FACW
<i>Phleum pratense</i>	10	NO	FACU
<i>Symphotrichum lateriflorum</i>	3	NO	FAC
Total Cover: 96			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

Dominance Test Worksheet: Number of Dominant Species that are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species Across All Strata: 2 (B) Percent of Dominant Species that are OBL, FACW, or FAC: 50 (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: 8</td> <td>x 1 = 8</td> </tr> <tr> <td>FACW Species: 73</td> <td>x 2 = 146</td> </tr> <tr> <td>FAC Species: 5</td> <td>x 3 = 15</td> </tr> <tr> <td>FACU Species: 25</td> <td>x 4 = 100</td> </tr> <tr> <td>UPL Species: 0</td> <td>x 5 = 0</td> </tr> <tr> <td>Column Totals: 111 (A)</td> <td>269 (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = 2.42</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: 8	x 1 = 8	FACW Species: 73	x 2 = 146	FAC Species: 5	x 3 = 15	FACU Species: 25	x 4 = 100	UPL Species: 0	x 5 = 0	Column Totals: 111 (A)	269 (B)	Prevalence Index = B/A = 2.42	
Total % Cover of:	Multiply by:																
OBL Species: 8	x 1 = 8																
FACW Species: 73	x 2 = 146																
FAC Species: 5	x 3 = 15																
FACU Species: 25	x 4 = 100																
UPL Species: 0	x 5 = 0																
Column Totals: 111 (A)	269 (B)																
Prevalence Index = B/A = 2.42																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-4	5Y 3/2	100					SANDY LOAM	W/Gravel
4-20	5Y 3/2	97	5Y 3/4	3	C	PL	FINE SANDY LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input checked="" type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
--	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks: 	

Photos	
<div data-bbox="482 552 1070 1020" data-label="Image"> </div> <div data-bbox="66 1031 667 1060" data-label="Text"> Photo Name: DE1AW248A_110613_WET1NW.jpg </div> <div data-bbox="820 1031 1138 1060" data-label="Text"> Note: DE-1A-W248A-WET1 </div>	

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 78.3 City/County: Deleware Sampling Date: 2013/11/06
Applicant/Owner: Williams State: NY Sampling Point: DE-1A-W248A-UPL1
Investigator(s): PL;KH USGS Quad: West Davenport Section, Township, Range: Davenport
Landform: Floodplain terrace Local Relief: ☐ Concave ☐ Convex ☒ None Slope (%): 2
Subregion: Middle Atlantic Latitude: 42.423269 Longitude: -74.96077 Datum: NAD 1988
Soil Map Unit Name: Wellsboro channery silt loam, 15 to 25 percent slopes NWI Classification: Not Mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is the Sampled Area within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Remarks: <u>Upland plot</u>	
Field Wetland Classification:	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☐ Yes ☒ No Depth (inches):

Wetland Hydrology Present? ☐ Yes ☒ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Rosa multiflora</i>	5	YES	FACU
Total Cover: 5			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Phleum pratense</i>	2	NO	FACU
<i>Agrostis sp.</i>	70	YES	FAC
<i>Cyperis groenlandica</i>	5	NO	FACU
Total Cover: 77			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

Dominance Test Worksheet: Number of Dominant Species that are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species Across All Strata: 2 (B) Percent of Dominant Species that are OBL, FACW, or FAC: 50 (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: 0</td> <td>x 1 = 0</td> </tr> <tr> <td>FACW Species: 0</td> <td>x 2 = 0</td> </tr> <tr> <td>FAC Species: 70</td> <td>x 3 = 210</td> </tr> <tr> <td>FACU Species: 12</td> <td>x 4 = 48</td> </tr> <tr> <td>UPL Species: 0</td> <td>x 5 = 0</td> </tr> <tr> <td>Column Totals: 82 (A)</td> <td>258 (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = 3.15</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: 0	x 1 = 0	FACW Species: 0	x 2 = 0	FAC Species: 70	x 3 = 210	FACU Species: 12	x 4 = 48	UPL Species: 0	x 5 = 0	Column Totals: 82 (A)	258 (B)	Prevalence Index = B/A = 3.15	
Total % Cover of:	Multiply by:																
OBL Species: 0	x 1 = 0																
FACW Species: 0	x 2 = 0																
FAC Species: 70	x 3 = 210																
FACU Species: 12	x 4 = 48																
UPL Species: 0	x 5 = 0																
Column Totals: 82 (A)	258 (B)																
Prevalence Index = B/A = 3.15																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-6	7.5YR 3/2	100					FINE SANDY LOAM	
6-15	7.5YR 3/3	100					FINE SANDY LOAM	


¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
---	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Remarks:	

Photos	
	
Photo Name: DE1AW248A_110613_UPL1E.jpg	Note: DE-1A-W248A-UPL1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost City/County: Deleware Sampling Date: 2013/11/12
Applicant/Owner: Williams State: NY Sampling Point: DE-1A-W361-WET1
Investigator(s): PL;KH USGS Quad: Oneonta Section, Township, Range: Franklin
Landform: drainageway Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 0
Subregion: Middle Atlantic Latitude: 42.390766 Longitude: -75.09577 Datum: NAD 1988
Soil Map Unit Name: Barbour loam NWI Classification: Not Mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: <u>PFO</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input checked="" type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input checked="" type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☒ Yes ☐ No Depth (inches): 6
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Acer rubrum</i>	40	YES	FAC
<i>Crataegus crus-galli</i>	25	YES	FAC
Total Cover: 65			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Impatiens capensis</i>	18	YES	FACW
<i>Symphyotrichum lateriflorum</i>	10	NO	FAC
<i>Juncus effusus</i>	3	NO	OBL
<i>Solidago gigantea</i>	25	YES	FACW
Total Cover: 56			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

Dominance Test Worksheet: Number of Dominant Species that are OBL, FACW, or FAC: 4 (A) Total Number of Dominant Species Across All Strata: 4 (B) Percent of Dominant Species that are OBL, FACW, or FAC: 100 (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: 3</td> <td>x 1 = 3</td> </tr> <tr> <td>FACW Species: 43</td> <td>x 2 = 86</td> </tr> <tr> <td>FAC Species: 75</td> <td>x 3 = 225</td> </tr> <tr> <td>FACU Species: 0</td> <td>x 4 = 0</td> </tr> <tr> <td>UPL Species: 0</td> <td>x 5 = 0</td> </tr> <tr> <td>Column Totals: 121 (A)</td> <td>314 (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = 2.60</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: 3	x 1 = 3	FACW Species: 43	x 2 = 86	FAC Species: 75	x 3 = 225	FACU Species: 0	x 4 = 0	UPL Species: 0	x 5 = 0	Column Totals: 121 (A)	314 (B)	Prevalence Index = B/A = 2.60	
Total % Cover of:	Multiply by:																
OBL Species: 3	x 1 = 3																
FACW Species: 43	x 2 = 86																
FAC Species: 75	x 3 = 225																
FACU Species: 0	x 4 = 0																
UPL Species: 0	x 5 = 0																
Column Totals: 121 (A)	314 (B)																
Prevalence Index = B/A = 2.60																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-14	7.5YR 2.5/2	100					FINE SANDY LOAM	Mucky
14-20	7.5YR 4/2	95	7.5YR 4/4	5	C	PL	SILT LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
--	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks: 	

Photos	
<div data-bbox="480 548 1068 1018" data-label="Image"> </div> <div data-bbox="66 1024 1122 1058" data-label="Text"> <p>Photo Name: DE1AW361_111213_WET1SW.jpg Note: DE-1A-W361-WET1</p> </div>	

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost City/County: Deleware Sampling Date: 2013/11/12
Applicant/Owner: Williams State: NY Sampling Point: DE-1A-W361-UPL1
Investigator(s): PL;KH USGS Quad: Oneonta Section, Township, Range: Franklin
Landform: Hillside/Sideslope Local Relief: ☐ Concave ☐ Convex ☒ None Slope (%): 15
Subregion: Middle Atlantic Latitude: 42.390848 Longitude: -75.09607 Datum: NAD 1988
Soil Map Unit Name: Lackawanna and Bath soils, 15 to 35 percent slopes, very stony NWI Classification: Not Mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is the Sampled Area within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Remarks: <u>upland pkot; share with DE-1A-W362</u>	
Field Wetland Classification:	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☐ Yes ☒ No Depth (inches):

Wetland Hydrology Present? ☐ Yes ☒ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Fagus grandifolia</i>	40	YES	FACU
<i>Fagus americana</i>	30	YES	FACU
<i>Acer saccharum</i>	10	NO	FACU
<i>Ostrya virginiana</i>	10	NO	FACU
Total Cover: 90			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Fagus grandifolia</i>	15	YES	FACU
Total Cover: 15			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

Dominance Test Worksheet: Number of Dominant Species that are OBL, FACW, or FAC: _____ 0 (A) Total Number of Dominant Species Across All Strata: _____ 3 (B) Percent of Dominant Species that are OBL, FACW, or FAC: _____ 0 (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Total % Cover of:</td> <td style="width: 20%;"></td> <td style="width: 20%;">Multiply by:</td> <td style="width: 20%;"></td> </tr> <tr> <td>OBL Species:</td> <td style="text-align: center;">0</td> <td>x 1 =</td> <td style="text-align: center;">0</td> </tr> <tr> <td>FACW Species:</td> <td style="text-align: center;">0</td> <td>x 2 =</td> <td style="text-align: center;">0</td> </tr> <tr> <td>FAC Species:</td> <td style="text-align: center;">0</td> <td>x 3 =</td> <td style="text-align: center;">0</td> </tr> <tr> <td>FACU Species:</td> <td style="text-align: center;">105</td> <td>x 4 =</td> <td style="text-align: center;">420</td> </tr> <tr> <td>UPL Species:</td> <td style="text-align: center;">0</td> <td>x 5 =</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Column Totals:</td> <td style="text-align: center;">105 (A)</td> <td></td> <td style="text-align: center;">420 (B)</td> </tr> <tr> <td colspan="3">Prevalence Index = B/A =</td> <td style="text-align: center;">4.00</td> </tr> </table>	Total % Cover of:		Multiply by:		OBL Species:	0	x 1 =	0	FACW Species:	0	x 2 =	0	FAC Species:	0	x 3 =	0	FACU Species:	105	x 4 =	420	UPL Species:	0	x 5 =	0	Column Totals:	105 (A)		420 (B)	Prevalence Index = B/A =			4.00
Total % Cover of:		Multiply by:																															
OBL Species:	0	x 1 =	0																														
FACW Species:	0	x 2 =	0																														
FAC Species:	0	x 3 =	0																														
FACU Species:	105	x 4 =	420																														
UPL Species:	0	x 5 =	0																														
Column Totals:	105 (A)		420 (B)																														
Prevalence Index = B/A =			4.00																														
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																
Remarks:																																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-6	7.5YR 3/2	100					FINE SANDY LOAM	
6-16	5YR 3/4	100					FINE SANDY LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
---	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Remarks:	

Photos	
<div data-bbox="480 552 1068 1020" data-label="Image"> </div> <div data-bbox="66 1026 1115 1060"> <div>Photo Name: DE1AW361_111213_UPL1NW.jpg</div> <div>Note: DE-1A-W361-UPL1</div> </div>	

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost City/County: Deleware Sampling Date: 2013/11/12
Applicant/Owner: Williams State: NY Sampling Point: DE-1A-W362-WET1
Investigator(s): PL;KH USGS Quad: Oneonta Section, Township, Range: Franklin
Landform: drainageway Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 0
Subregion: Middle Atlantic Latitude: 42.390692 Longitude: -75.09610 Datum: NAD 1988
Soil Map Unit Name: Barbour loam NWI Classification: Not Mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Use DE-1A-W361-UPL1 as representative upland plot	
Field Wetland Classification: PEM	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input checked="" type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Rosa multiflora</i>	20	YES	FACU
Total Cover: 20			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Symphytotrichum lateriflorum</i>	15	YES	FAC
<i>Phalaris arundinacea</i>	40	YES	FACW
<i>Rumex crispus</i>	8	NO	FAC
<i>Arctium minus</i>	5	NO	FACU
Total Cover: 68			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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>67</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Total % Cover of:</td> <td style="width: 40%;">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>40</u></td> <td>x 2 = <u>80</u></td> </tr> <tr> <td>FAC Species: <u>23</u></td> <td>x 3 = <u>69</u></td> </tr> <tr> <td>FACU Species: <u>25</u></td> <td>x 4 = <u>100</u></td> </tr> <tr> <td>UPL Species: <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>88</u> (A)</td> <td><u>249</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">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>40</u>	x 2 = <u>80</u>	FAC Species: <u>23</u>	x 3 = <u>69</u>	FACU Species: <u>25</u>	x 4 = <u>100</u>	UPL Species: <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>88</u> (A)	<u>249</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>40</u>	x 2 = <u>80</u>																
FAC Species: <u>23</u>	x 3 = <u>69</u>																
FACU Species: <u>25</u>	x 4 = <u>100</u>																
UPL Species: <u>0</u>	x 5 = <u>0</u>																
Column Totals: <u>88</u> (A)	<u>249</u> (B)																
Prevalence Index = B/A = <u>2.83</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-20	5YR 3/2	100					FINE SANDY LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input checked="" type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input checked="" type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
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³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 68.27240 City/County: Delaware Sampling Date: 2014/05/02
Applicant/Owner: Williams State: NY Sampling Point: DE-1A-W373-WET1
Investigator(s): PL;KH USGS Quad: Otego Section, Township, Range: Franklin
Landform: Drainageway Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 2
Subregion: Middle Atlantic Latitude: 42.383361 Longitude: -75.12731 Datum: NAD 1983
Soil Map Unit Name: Morris and Volusia soils, 2 to 10 percent slopes, very stony NWI Classification: Not mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: <u>PFO</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input checked="" type="checkbox"/> Water Stained Leaves (B9) |
| <input checked="" type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input checked="" type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☒ Yes ☐ No Depth (inches): 6
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Tsuga canadensis</i>	60	YES	FACU
Total Cover: 60			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Betula alleghaniensis</i>	2	YES	FAC
Total Cover: 2			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Hamamelis virginiana</i>	5	YES	FACU
Total Cover: 5			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Carex sp</i>	60	YES	OBL
<i>Solidago sp</i>	1	NO	FAC
<i>Coptis trifolia</i>	15	NO	FACW
Total Cover: 76			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

Dominance Test Worksheet: Number of Dominant Species that are OBL, FACW, or FAC: 2 (A) Total Number of Dominant Species Across All Strata: 4 (B) Percent of Dominant Species that are OBL, FACW, or FAC: 50 (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: 60</td> <td>x 1 = 60</td> </tr> <tr> <td>FACW Species: 15</td> <td>x 2 = 30</td> </tr> <tr> <td>FAC Species: 3</td> <td>x 3 = 9</td> </tr> <tr> <td>FACU Species: 65</td> <td>x 4 = 260</td> </tr> <tr> <td>UPL Species: 0</td> <td>x 5 = 0</td> </tr> <tr> <td>Column Totals: 143 (A)</td> <td>359 (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = 2.51</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: 60	x 1 = 60	FACW Species: 15	x 2 = 30	FAC Species: 3	x 3 = 9	FACU Species: 65	x 4 = 260	UPL Species: 0	x 5 = 0	Column Totals: 143 (A)	359 (B)	Prevalence Index = B/A = 2.51	
Total % Cover of:	Multiply by:																
OBL Species: 60	x 1 = 60																
FACW Species: 15	x 2 = 30																
FAC Species: 3	x 3 = 9																
FACU Species: 65	x 4 = 260																
UPL Species: 0	x 5 = 0																
Column Totals: 143 (A)	359 (B)																
Prevalence Index = B/A = 2.51																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	<div style="text-align: right;"> Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No </div>																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-10	7.5YR 3/1	100					SILT LOAM	
10-16	7.5YR 4/2	95	7.5YR 4/4	5	C	M	SANDY LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
--	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks: 	

Photos	
	
Photo Name: DE1AW373_050214_WET1NW.jpg	Note: DE-1A-W373-WET1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 68.26464 City/County: Delaware Sampling Date: 2014/05/02
Applicant/Owner: Williams State: NY Sampling Point: DE-1A-W374-WET1
Investigator(s): PL;KH USGS Quad: Otego Section, Township, Range: Franklin
Landform: sideslope Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 2
Subregion: Middle Atlantic Latitude: 42.383574 Longitude: -75.12766 Datum: NAD 1983
Soil Map Unit Name: Morris and Volusia soils, 2 to 10 percent slopes, very stony NWI Classification: Not mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: <u>PFO</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input checked="" type="checkbox"/> Water Stained Leaves (B9) |
| <input checked="" type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input checked="" type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☒ Yes ☐ No Depth (inches): 6
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Tsuga canadensis</i>	10	NO	FACU
<i>Betula alleghaniensis</i>	60	YES	FAC
<i>Fagus americana</i>	10	NO	FACU
Total Cover: 80			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Fagus americana</i>	8	YES	FACU
Total Cover: 8			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Onoclea sensibilis</i>	20	YES	FACW
<i>Erythronium americanum</i>	5	NO	FACU
<i>Coptis trifolia</i>	18	YES	FACW
Total Cover: 43			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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>4</u> (B) Percent of Dominant Species that are OBL, FACW, or FAC: <u>75</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <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>38</u></td> <td>x 2 = <u>76</u></td> </tr> <tr> <td>FAC Species: <u>60</u></td> <td>x 3 = <u>180</u></td> </tr> <tr> <td>FACU Species: <u>33</u></td> <td>x 4 = <u>132</u></td> </tr> <tr> <td>UPL Species: <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>131</u> (A)</td> <td><u>388</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = <u>2.96</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: <u>0</u>	x 1 = <u>0</u>	FACW Species: <u>38</u>	x 2 = <u>76</u>	FAC Species: <u>60</u>	x 3 = <u>180</u>	FACU Species: <u>33</u>	x 4 = <u>132</u>	UPL Species: <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>131</u> (A)	<u>388</u> (B)	Prevalence Index = B/A = <u>2.96</u>	
Total % Cover of:	Multiply by:																
OBL Species: <u>0</u>	x 1 = <u>0</u>																
FACW Species: <u>38</u>	x 2 = <u>76</u>																
FAC Species: <u>60</u>	x 3 = <u>180</u>																
FACU Species: <u>33</u>	x 4 = <u>132</u>																
UPL Species: <u>0</u>	x 5 = <u>0</u>																
Column Totals: <u>131</u> (A)	<u>388</u> (B)																
Prevalence Index = B/A = <u>2.96</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-10	7.5YR 3/1	100					SILT LOAM	
10-16	7.5YR 4/2	95	7.5YR 4/4	5	C	PL	SANDY LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
--	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks: 	

Photos	
<div data-bbox="480 548 1070 1018" data-label="Image"> </div> <div data-bbox="66 1024 1485 1062"> <div> Photo Name: DE1AW374_050214_WET1W.jpg </div> <div> Note: DE-1A-W374-WET1 </div> </div>	

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 68.25606 City/County: Delaware Sampling Date: 2014/05/02
Applicant/Owner: Williams State: NY Sampling Point: DE-1A-W374-UPL1
Investigator(s): PL;KH USGS Quad: Otego Section, Township, Range: Franklin
Landform: sideslope Local Relief: ☐ Concave ☐ Convex ☒ None Slope (%): 2
Subregion: Middle Atlantic Latitude: 42.383414 Longitude: -75.12773 Datum: NAD 1983
Soil Map Unit Name: Morris and Volusia soils, 2 to 10 percent slopes, very stony NWI Classification: Not mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is the Sampled Area within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Remarks: <u>Upland plot</u>	
Field Wetland Classification:	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☐ Yes ☒ No Depth (inches):

Wetland Hydrology Present? ☐ Yes ☒ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Tsuga canadensis</i>	80	YES	FACU
<i>Betula alleghaniensis</i>	10	NO	FAC
Total Cover: 90			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Fagus americana</i>	10	YES	FACU
Total Cover: 10			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

Dominance Test Worksheet: Number of Dominant Species that are OBL, FACW, or FAC: _____ 0 (A) Total Number of Dominant Species Across All Strata: _____ 2 (B) Percent of Dominant Species that are OBL, FACW, or FAC: _____ 0 (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Total % Cover of:</td> <td style="width: 20%;"></td> <td style="width: 20%;">Multiply by:</td> <td style="width: 20%;"></td> </tr> <tr> <td>OBL Species:</td> <td style="text-align: center;">0</td> <td>x 1 =</td> <td style="text-align: center;">0</td> </tr> <tr> <td>FACW Species:</td> <td style="text-align: center;">0</td> <td>x 2 =</td> <td style="text-align: center;">0</td> </tr> <tr> <td>FAC Species:</td> <td style="text-align: center;">10</td> <td>x 3 =</td> <td style="text-align: center;">30</td> </tr> <tr> <td>FACU Species:</td> <td style="text-align: center;">90</td> <td>x 4 =</td> <td style="text-align: center;">360</td> </tr> <tr> <td>UPL Species:</td> <td style="text-align: center;">0</td> <td>x 5 =</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Column Totals:</td> <td style="text-align: center;">100 (A)</td> <td></td> <td style="text-align: center;">390 (B)</td> </tr> <tr> <td colspan="3">Prevalence Index = B/A =</td> <td style="text-align: center;">3.90</td> </tr> </table>	Total % Cover of:		Multiply by:		OBL Species:	0	x 1 =	0	FACW Species:	0	x 2 =	0	FAC Species:	10	x 3 =	30	FACU Species:	90	x 4 =	360	UPL Species:	0	x 5 =	0	Column Totals:	100 (A)		390 (B)	Prevalence Index = B/A =			3.90
Total % Cover of:		Multiply by:																															
OBL Species:	0	x 1 =	0																														
FACW Species:	0	x 2 =	0																														
FAC Species:	10	x 3 =	30																														
FACU Species:	90	x 4 =	360																														
UPL Species:	0	x 5 =	0																														
Column Totals:	100 (A)		390 (B)																														
Prevalence Index = B/A =			3.90																														
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																
Remarks:																																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-4	10YR 2/1	100					SANDY LOAM	
4-15	5YR 4/4	100					FINE SANDY LOAM	


¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
---	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Remarks:	

Photos	
	
Photo Name: DE1AW374_050214_UPL1SE.jpg	Note: DE-1A-W374-UPL1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 63.81006 City/County: Delaware Sampling Date: 2014/05/20
Applicant/Owner: Williams State: NY Sampling Point: DE-1A-W463-WET1
Investigator(s): PL, RR USGS Quad: Franklin Section, Township, Range: Sidney
Landform: Drainageway Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 1
Subregion: Middle Atlantic Latitude: 42.353690 Longitude: -75.20527 Datum: NAD 1983
Soil Map Unit Name: Wellsboro channery silt loam, 3 to 8 percent slopes NWI Classification: Not mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: <u>PFO</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input checked="" type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input checked="" type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Acer rubrum</i>	40	YES	FAC
<i>Betula lenta</i>	10	YES	FACU
Total Cover: 50			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Betula lenta</i>	3	YES	FACU
Total Cover: 3			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Carex crinita</i>	45	YES	OBL
<i>Solidago rugosa</i>	8	NO	FAC
<i>Carex sp</i>	30	YES	FACW
<i>Impatiens capensis</i>	10	NO	FACW
Total Cover: 93			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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>5</u> (B) Percent of Dominant Species that are OBL, FACW, or FAC: <u>60</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: <u>45</u></td> <td>x 1 = <u>45</u></td> </tr> <tr> <td>FACW Species: <u>40</u></td> <td>x 2 = <u>80</u></td> </tr> <tr> <td>FAC Species: <u>48</u></td> <td>x 3 = <u>144</u></td> </tr> <tr> <td>FACU Species: <u>13</u></td> <td>x 4 = <u>52</u></td> </tr> <tr> <td>UPL Species: <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>146</u> (A)</td> <td><u>321</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.20</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: <u>45</u>	x 1 = <u>45</u>	FACW Species: <u>40</u>	x 2 = <u>80</u>	FAC Species: <u>48</u>	x 3 = <u>144</u>	FACU Species: <u>13</u>	x 4 = <u>52</u>	UPL Species: <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>146</u> (A)	<u>321</u> (B)	Prevalence Index = B/A = <u>2.20</u>	
Total % Cover of:	Multiply by:																
OBL Species: <u>45</u>	x 1 = <u>45</u>																
FACW Species: <u>40</u>	x 2 = <u>80</u>																
FAC Species: <u>48</u>	x 3 = <u>144</u>																
FACU Species: <u>13</u>	x 4 = <u>52</u>																
UPL Species: <u>0</u>	x 5 = <u>0</u>																
Column Totals: <u>146</u> (A)	<u>321</u> (B)																
Prevalence Index = B/A = <u>2.20</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-8	10YR 3/1	100				None	FINE SANDY LOAM	
8-16	10YR 4/2	90	10YR 3/4	10	C	M	FINE SANDY LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
--	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks: 	

Photos	
<div data-bbox="461 550 1089 1020" data-label="Image"> </div> <div data-bbox="66 1026 1490 1064"> <p>Photo Name: DE1AW463_052014_WET1S.jpg Note: DE-1A-W463-WET1</p> </div>	

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 63.84682 City/County: Delaware Sampling Date: 2014/05/20
Applicant/Owner: Williams State: NY Sampling Point: DE-1A-W467-WET1
Investigator(s): PL, RR USGS Quad: Franklin Section, Township, Range: Sidney
Landform: Drainageway Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): _____
Subregion: Middle Atlantic Latitude: 42.354288 Longitude: -75.20456 Datum: NAD 1983
Soil Map Unit Name: Volusia channery silt loam, 3 to 8 percent slopes NWI Classification: Not mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: <u>PFO</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input checked="" type="checkbox"/> Water Stained Leaves (B9) |
| <input checked="" type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input checked="" type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches): _____
Water Table Present: ☒ Yes ☐ No Depth (inches): 6
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Acer rubrum</i>	60	YES	FAC
<i>Pinus strobus</i>	10	YES	FACU
Total Cover: 70			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Carpinus caroliniana</i>	15	YES	FAC
<i>Betula lenta</i>	5	YES	FACU
Total Cover: 20			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Spiraea alba</i>	8	YES	FACW
Total Cover: 8			
Herb Stratum			
Plot Size: 530 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Onoclea sensibilis</i>	18	YES	FACW
<i>Solidago sp</i>	8	NO	FAC
<i>Rubus hispidus</i>	10	NO	FACW
<i>Glyceria sp</i>	40	YES	FACW
Total Cover: 76			
Vine Stratum			
Plot Size: feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

Dominance Test Worksheet: Number of Dominant Species that are OBL, FACW, or FAC: <u>5</u> (A) Total Number of Dominant Species Across All Strata: <u>7</u> (B) Percent of Dominant Species that are OBL, FACW, or FAC: <u>71</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <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>76</u></td> <td>x 2 = <u>152</u></td> </tr> <tr> <td>FAC Species: <u>83</u></td> <td>x 3 = <u>249</u></td> </tr> <tr> <td>FACU Species: <u>15</u></td> <td>x 4 = <u>60</u></td> </tr> <tr> <td>UPL Species: <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>174</u> (A)</td> <td><u>461</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.65</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: <u>0</u>	x 1 = <u>0</u>	FACW Species: <u>76</u>	x 2 = <u>152</u>	FAC Species: <u>83</u>	x 3 = <u>249</u>	FACU Species: <u>15</u>	x 4 = <u>60</u>	UPL Species: <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>174</u> (A)	<u>461</u> (B)	Prevalence Index = B/A = <u>2.65</u>	
Total % Cover of:	Multiply by:																
OBL Species: <u>0</u>	x 1 = <u>0</u>																
FACW Species: <u>76</u>	x 2 = <u>152</u>																
FAC Species: <u>83</u>	x 3 = <u>249</u>																
FACU Species: <u>15</u>	x 4 = <u>60</u>																
UPL Species: <u>0</u>	x 5 = <u>0</u>																
Column Totals: <u>174</u> (A)	<u>461</u> (B)																
Prevalence Index = B/A = <u>2.65</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-2	2.5Y 3/2					None	FINE SANDY LOAM	
2-14	2.5Y 4/1	80	2.5Y 3/3	10	C	M	FINE SANDY LOAM	2.5Y 3/4 10% C, M

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
--	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks: 	

Photos	
<div data-bbox="461 550 1089 1020" data-label="Image"> </div> <div data-bbox="66 1026 634 1058" data-label="Text"> <p>Photo Name: DE1AW467_052014_WET1W.jpg</p> </div> <div data-bbox="821 1026 1122 1058" data-label="Text"> <p>Note: DE-1A-W467-WET1</p> </div>	

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 63.88910 City/County: Delaware Sampling Date: 2014/05/20
Applicant/Owner: Williams State: NY Sampling Point: DE-1A-W468-WET1
Investigator(s): PL, RR USGS Quad: Franklin Section, Township, Range: Sidney
Landform: Drainage Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 1
Subregion: Middle Atlantic Latitude: 42.353818 Longitude: -75.20373 Datum: NAD 1983
Soil Map Unit Name: Mardin channery silt loam, 3 to 8 percent slopes NWI Classification: Not mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: <u>PEM</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input checked="" type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input checked="" type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Acer rubrum</i>	18	YES	FAC
Total Cover: 18			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Carex crinita</i>	25	YES	OBL
<i>Viola sp</i>	5	NO	FAC
<i>Carex sp</i>	30	YES	FAC
<i>Juncus effusus</i>	10	NO	OBL
<i>Impatiens capensis</i>	12	NO	FACW
<i>Onoclea sensibilis</i>	8	NO	FACW
Total Cover: 90			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: <u>35</u></td> <td>x 1 = <u>35</u></td> </tr> <tr> <td>FACW Species: <u>20</u></td> <td>x 2 = <u>40</u></td> </tr> <tr> <td>FAC Species: <u>53</u></td> <td>x 3 = <u>159</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>108</u> (A)</td> <td><u>234</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.17</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: <u>35</u>	x 1 = <u>35</u>	FACW Species: <u>20</u>	x 2 = <u>40</u>	FAC Species: <u>53</u>	x 3 = <u>159</u>	FACU Species: <u>0</u>	x 4 = <u>0</u>	UPL Species: <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>108</u> (A)	<u>234</u> (B)	Prevalence Index = B/A = <u>2.17</u>	
Total % Cover of:	Multiply by:																
OBL Species: <u>35</u>	x 1 = <u>35</u>																
FACW Species: <u>20</u>	x 2 = <u>40</u>																
FAC Species: <u>53</u>	x 3 = <u>159</u>																
FACU Species: <u>0</u>	x 4 = <u>0</u>																
UPL Species: <u>0</u>	x 5 = <u>0</u>																
Column Totals: <u>108</u> (A)	<u>234</u> (B)																
Prevalence Index = B/A = <u>2.17</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-5	2.5Y 3/2	90	2.5Y 4/3	10	C	M	FINE SANDY LOAM	
5-15	2.5Y 4/2	80	2.5Y 3/3	20	C	M	FINE SANDY LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
--	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks: 	

Photos	
<div data-bbox="461 550 1089 1018" data-label="Image"> </div> <div data-bbox="66 1026 626 1060" data-label="Text"> <p>Photo Name: DE1AW468_052014_WET1E.jpg</p> </div> <div data-bbox="821 1026 1123 1060" data-label="Text"> <p>Note: DE-1A-W468-WET1</p> </div>	

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 63.89527 City/County: Delaware Sampling Date: 2014/05/20
Applicant/Owner: Williams State: NY Sampling Point: DE-1A-W468-UPL1
Investigator(s): PL, RR USGS Quad: Franklin Section, Township, Range: Sidney
Landform: Side slope Local Relief: ☐ Concave ☐ Convex ☒ None Slope (%): 1
Subregion: Middle Atlantic Latitude: 42.354034 Longitude: -75.20361 Datum: NAD 1983
Soil Map Unit Name: Mardin channery silt loam, 3 to 8 percent slopes NWI Classification: Not mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is the Sampled Area within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Remarks: <u>Upland</u>	
Field Wetland Classification:	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☐ Yes ☒ No Depth (inches):

Wetland Hydrology Present? ☐ Yes ☒ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Fagus grandifolia</i>	65	YES	FACU
<i>Tsuga canadensis</i>	10	NO	FACU
Total Cover: 75			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Fagus grandifolia</i>	40	YES	FACU
Total Cover: 40			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Maianthemum canadense</i>	8	YES	FACU
<i>Erythronium albidum</i>	8	YES	FACU
Total Cover: 16			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

Dominance Test Worksheet: Number of Dominant Species that are OBL, FACW, or FAC: 0 (A) Total Number of Dominant Species Across All Strata: 4 (B) Percent of Dominant Species that are OBL, FACW, or FAC: 0 (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: 0</td> <td>x 1 = 0</td> </tr> <tr> <td>FACW Species: 0</td> <td>x 2 = 0</td> </tr> <tr> <td>FAC Species: 0</td> <td>x 3 = 0</td> </tr> <tr> <td>FACU Species: 131</td> <td>x 4 = 524</td> </tr> <tr> <td>UPL Species: 0</td> <td>x 5 = 0</td> </tr> <tr> <td>Column Totals: 131 (A)</td> <td>524 (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = 4.00</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: 0	x 1 = 0	FACW Species: 0	x 2 = 0	FAC Species: 0	x 3 = 0	FACU Species: 131	x 4 = 524	UPL Species: 0	x 5 = 0	Column Totals: 131 (A)	524 (B)	Prevalence Index = B/A = 4.00	
Total % Cover of:	Multiply by:																
OBL Species: 0	x 1 = 0																
FACW Species: 0	x 2 = 0																
FAC Species: 0	x 3 = 0																
FACU Species: 131	x 4 = 524																
UPL Species: 0	x 5 = 0																
Column Totals: 131 (A)	524 (B)																
Prevalence Index = B/A = 4.00																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-8	10YR 2/2	100				None	FINE SANDY LOAM	
8-14	10YR 3/4	100				None	FINE SANDY LOAM	Auger refusal at 14"


¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
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³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Remarks:	

Photos	
	
Photo Name: DE1AW468_052014_UPL1NW.jpg	Note: DE-1A-W468-UPL1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 63.91642 City/County: Delaware Sampling Date: 2014/05/20
Applicant/Owner: Williams State: NY Sampling Point: DE-1A-W469-WET1
Investigator(s): PL, RR USGS Quad: Franklin Section, Township, Range: Sidney
Landform: Depression Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 0
Subregion: Middle Atlantic Latitude: 42.354021 Longitude: -75.20320 Datum: NAD 1983
Soil Map Unit Name: Mardin channery silt loam, 3 to 8 percent slopes NWI Classification: Not mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: <u>PFO</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input checked="" type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Fagus grandifolia</i>	65	YES	FACU
Total Cover: 65			
Sapling Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Impatiens capensis</i>	5	NA	FACW
<i>Carex crinita</i>	60	YES	OBL
<i>Viola sp</i>	20	YES	FAC
Total Cover: 85			
Vine Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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>67</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: <u>60</u></td> <td>x 1 = <u>60</u></td> </tr> <tr> <td>FACW Species: <u>5</u></td> <td>x 2 = <u>10</u></td> </tr> <tr> <td>FAC Species: <u>20</u></td> <td>x 3 = <u>60</u></td> </tr> <tr> <td>FACU Species: <u>65</u></td> <td>x 4 = <u>260</u></td> </tr> <tr> <td>UPL Species: <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>150</u> (A)</td> <td><u>390</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.60</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: <u>60</u>	x 1 = <u>60</u>	FACW Species: <u>5</u>	x 2 = <u>10</u>	FAC Species: <u>20</u>	x 3 = <u>60</u>	FACU Species: <u>65</u>	x 4 = <u>260</u>	UPL Species: <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>150</u> (A)	<u>390</u> (B)	Prevalence Index = B/A = <u>2.60</u>	
Total % Cover of:	Multiply by:																
OBL Species: <u>60</u>	x 1 = <u>60</u>																
FACW Species: <u>5</u>	x 2 = <u>10</u>																
FAC Species: <u>20</u>	x 3 = <u>60</u>																
FACU Species: <u>65</u>	x 4 = <u>260</u>																
UPL Species: <u>0</u>	x 5 = <u>0</u>																
Column Totals: <u>150</u> (A)	<u>390</u> (B)																
Prevalence Index = B/A = <u>2.60</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-5	2.5Y 3/1					None	SILT LOAM	
5-14	2.5Y 4/2	92	2.5Y 4/4	8	C	M	FINE SANDY LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
--	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks: 	

Photos	
	
Photo Name: DE1AW469_052014_WET1E.jpg	Note: DE-1A-W469-WET1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 80.90426 City/County: Delaware Sampling Date: 2014/05/21
Applicant/Owner: Williams State: Sampling Point: DE-1A-W472-WET1
Investigator(s): PL;KH USGS Quad: West Davenport Section, Township, Range: Davenport
Landform: Depression Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 0
Subregion: Middle Atlantic Latitude: 42.428184 Longitude: -74.91310 Datum: NAD 1983
Soil Map Unit Name: Willowemoc channery silt loam, 3 to 8 percent slopes NWI Classification: Not mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☒ or Hydrology ☐ naturally problematic? ☐ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: <u>PFO</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input checked="" type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input checked="" type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input checked="" type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Acer rubrum</i>	60	YES	FAC
<i>Fraxinus americana</i>	10	NO	FACU
<i>Populus tremuloides</i>	18	YES	FACU
Total Cover: 88			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Rhododendron viscosum</i>	25	YES	FACW
Total Cover: 25			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Onoclea sensibilis</i>	25	YES	FACW
<i>Rubus hispidus</i>	25	YES	FACW
<i>Parthenocissus quinquefolia</i>	3	NO	FACU
Total Cover: 53			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

Dominance Test Worksheet: Number of Dominant Species that are OBL, FACW, or FAC: 4 (A) Total Number of Dominant Species Across All Strata: 5 (B) Percent of Dominant Species that are OBL, FACW, or FAC: 80 (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: 0</td> <td>x 1 = 0</td> </tr> <tr> <td>FACW Species: 75</td> <td>x 2 = 150</td> </tr> <tr> <td>FAC Species: 60</td> <td>x 3 = 180</td> </tr> <tr> <td>FACU Species: 31</td> <td>x 4 = 124</td> </tr> <tr> <td>UPL Species: 0</td> <td>x 5 = 0</td> </tr> <tr> <td>Column Totals: 166 (A)</td> <td>454 (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = 2.73</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: 0	x 1 = 0	FACW Species: 75	x 2 = 150	FAC Species: 60	x 3 = 180	FACU Species: 31	x 4 = 124	UPL Species: 0	x 5 = 0	Column Totals: 166 (A)	454 (B)	Prevalence Index = B/A = 2.73	
Total % Cover of:	Multiply by:																
OBL Species: 0	x 1 = 0																
FACW Species: 75	x 2 = 150																
FAC Species: 60	x 3 = 180																
FACU Species: 31	x 4 = 124																
UPL Species: 0	x 5 = 0																
Column Totals: 166 (A)	454 (B)																
Prevalence Index = B/A = 2.73																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-8	7.5YR 3/3	100					FINE SANDY LOAM	
8-15	5YR 4/3	95	7.5YR 5/2	5	C	M	FINE SANDY LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input checked="" type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
--	---

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks: 	

Photos	
<div data-bbox="480 548 1070 1018" data-label="Image"> </div> <div data-bbox="66 1024 1485 1062"> <div> Photo Name: DE1AW472_052114_WET1SE.jpg </div> <div> Note: DE-1A-W472-WET1 </div> </div>	

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 80.91300 City/County: Delaware Sampling Date: 2014/05/21
Applicant/Owner: Williams State: _____ Sampling Point: DE-1A-W472-UPL1
Investigator(s): PL;KH USGS Quad: West Davenport Section, Township, Range: Davenport
Landform: Hillside Local Relief: ☐ Concave ☐ Convex ☒ None Slope (%): 0
Subregion: Middle Atlantic Latitude: 42.428151 Longitude: -74.91285 Datum: NAD 1983
Soil Map Unit Name: Willowemoc channery silt loam, 3 to 8 percent slopes NWI Classification: Not mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is the Sampled Area within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Remarks: <u>Upland plot</u>	
Field Wetland Classification:	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches): _____
Water Table Present: ☐ Yes ☒ No Depth (inches): _____
Saturation Present: ☐ Yes ☒ No Depth (inches): _____

Wetland Hydrology Present? ☐ Yes ☒ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Tsuga canadensis</i>	20	YES	FACU
<i>Populus tremuloides</i>	18	YES	FACU
<i>Pinus strobus</i>	10	NO	FACU
<i>Acer rubrum</i>	40	YES	FAC
Total Cover: 88			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Acer rubrum</i>	5	YES	FAC
Total Cover: 5			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Crataegus crus-galli</i>	5	YES	FAC
<i>Carya sp</i>	3	NO	FACU
<i>Maianthemum canadense</i>	20	YES	FACU
Total Cover: 28			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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>6</u> (B) Percent of Dominant Species that are OBL, FACW, or FAC: <u>50</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <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>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC Species: <u>50</u></td> <td>x 3 = <u>150</u></td> </tr> <tr> <td>FACU Species: <u>71</u></td> <td>x 4 = <u>284</u></td> </tr> <tr> <td>UPL Species: <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>121</u> (A)</td> <td><u>434</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = <u>3.59</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>50</u>	x 3 = <u>150</u>	FACU Species: <u>71</u>	x 4 = <u>284</u>	UPL Species: <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>121</u> (A)	<u>434</u> (B)	Prevalence Index = B/A = <u>3.59</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>50</u>	x 3 = <u>150</u>																
FACU Species: <u>71</u>	x 4 = <u>284</u>																
UPL Species: <u>0</u>	x 5 = <u>0</u>																
Column Totals: <u>121</u> (A)	<u>434</u> (B)																
Prevalence Index = B/A = <u>3.59</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-3	5Y 3/1	100					FINE SANDY LOAM	
3-10	5YR 3/3	100					FINE SANDY LOAM	


¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
---	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Remarks:	

Photos	
	
Photo Name: DE1AW472_052114_UPL1NW.jpg	Note: DE-1A-W472-UPL1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 62.53985 City/County: Delaware Sampling Date: 2014/05/30
Applicant/Owner: Williams State: _____ Sampling Point: DE-1A-W473-WET1
Investigator(s): PL;KH USGS Quad: Franklin Section, Township, Range: Sidney
Landform: Drainageway Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 2
Subregion: Middle Atlantic Latitude: 42.355436 Longitude: -75.22986 Datum: NAD 1983
Soil Map Unit Name: Morris flaggy silt loam, 3 to 8 percent slopes NWI Classification: Not mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: <u>PFO</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input checked="" type="checkbox"/> Water Stained Leaves (B9) |
| <input checked="" type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input checked="" type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches): _____
Water Table Present: ☒ Yes ☐ No Depth (inches): 8
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Acer rubrum</i>	70	YES	FAC
<i>Quercus alba</i>	10	NO	FACU
Total Cover: 80			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Acer rubrum</i>	15	YES	FAC
Total Cover: 15			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Impatiens capensis</i>	25	YES	FACW
<i>Carex crinita</i>	45	YES	OBL
<i>Solidago sp</i>	15	NO	FAC
<i>Rubus sp</i>	10	NO	FACW
Total Cover: 95			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: <u>45</u></td> <td>x 1 = <u>45</u></td> </tr> <tr> <td>FACW Species: <u>35</u></td> <td>x 2 = <u>70</u></td> </tr> <tr> <td>FAC Species: <u>100</u></td> <td>x 3 = <u>300</u></td> </tr> <tr> <td>FACU Species: <u>10</u></td> <td>x 4 = <u>40</u></td> </tr> <tr> <td>UPL Species: <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>190</u> (A)</td> <td><u>455</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = <u>2.39</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: <u>45</u>	x 1 = <u>45</u>	FACW Species: <u>35</u>	x 2 = <u>70</u>	FAC Species: <u>100</u>	x 3 = <u>300</u>	FACU Species: <u>10</u>	x 4 = <u>40</u>	UPL Species: <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>190</u> (A)	<u>455</u> (B)	Prevalence Index = B/A = <u>2.39</u>	
Total % Cover of:	Multiply by:																
OBL Species: <u>45</u>	x 1 = <u>45</u>																
FACW Species: <u>35</u>	x 2 = <u>70</u>																
FAC Species: <u>100</u>	x 3 = <u>300</u>																
FACU Species: <u>10</u>	x 4 = <u>40</u>																
UPL Species: <u>0</u>	x 5 = <u>0</u>																
Column Totals: <u>190</u> (A)	<u>455</u> (B)																
Prevalence Index = B/A = <u>2.39</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-8	7.5YR 3/2	97	7.5YR 2.5/3	3	C	M	LOAM	
8-16+	7.5YR 4/2	92	10YR 3/4	8	C	M	FINE SANDY LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
--	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks: 	

Photos	
<div data-bbox="480 548 1068 1018" data-label="Image"> </div> <div data-bbox="66 1024 1485 1062"> <div> Photo Name: DE1AW473_053014_WET1SE.jpg </div> <div> Note: DE-1A-W473-WET1 </div> </div>	

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 62.53397 City/County: Delaware Sampling Date: 2014/05/30
Applicant/Owner: Williams State: _____ Sampling Point: DE-1A-W473-UPL1
Investigator(s): PL;KH USGS Quad: Franklin Section, Township, Range: Sidney
Landform: Drainageway Local Relief: ☐ Concave ☒ Convex ☐ None Slope (%): 2
Subregion: Middle Atlantic Latitude: 42.355444 Longitude: -75.22999 Datum: NAD 1983
Soil Map Unit Name: Morris flaggy silt loam, 3 to 8 percent slopes NWI Classification: Not mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is the Sampled Area within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Remarks: <u>Upland plot</u>	
Field Wetland Classification:	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches): _____
Water Table Present: ☐ Yes ☒ No Depth (inches): _____
Saturation Present: ☐ Yes ☒ No Depth (inches): _____

Wetland Hydrology Present? ☐ Yes ☒ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Acer rubrum</i>	50	YES	FAC
<i>Acer saccharum</i>	35	YES	FACU
Total Cover: 85			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Crataegus crus-galli</i>	8	YES	FAC
Total Cover: 8			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Carex crinita</i>	25	YES	OBL
<i>Quercus alba</i>	3	NO	FACU
<i>Anthoxanthum odoratum</i>	40	YES	FACU
<i>Veratrum viride</i>	8	NO	FACW
<i>Rubus idaeus</i>	3	NO	FACU
Total Cover: 79			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

Dominance Test Worksheet: Number of Dominant Species that are OBL, FACW, or FAC: 3 (A) Total Number of Dominant Species Across All Strata: 5 (B) Percent of Dominant Species that are OBL, FACW, or FAC: 60 (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: 25</td> <td>x 1 = 25</td> </tr> <tr> <td>FACW Species: 8</td> <td>x 2 = 16</td> </tr> <tr> <td>FAC Species: 58</td> <td>x 3 = 174</td> </tr> <tr> <td>FACU Species: 81</td> <td>x 4 = 324</td> </tr> <tr> <td>UPL Species: 0</td> <td>x 5 = 0</td> </tr> <tr> <td>Column Totals: 172 (A)</td> <td>539 (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = 3.13</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: 25	x 1 = 25	FACW Species: 8	x 2 = 16	FAC Species: 58	x 3 = 174	FACU Species: 81	x 4 = 324	UPL Species: 0	x 5 = 0	Column Totals: 172 (A)	539 (B)	Prevalence Index = B/A = 3.13	
Total % Cover of:	Multiply by:																
OBL Species: 25	x 1 = 25																
FACW Species: 8	x 2 = 16																
FAC Species: 58	x 3 = 174																
FACU Species: 81	x 4 = 324																
UPL Species: 0	x 5 = 0																
Column Totals: 172 (A)	539 (B)																
Prevalence Index = B/A = 3.13																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-8	7.5YR 3/2	100					LOAM	
8-18	7.5YR 3/3	100					FINE SANDY LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
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³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Remarks:	

Photos	
	
Photo Name: DE1AW473_053014_UPL1NW.jpg	Note: DE-1A-W473-UPL1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 62.45020 City/County: Delaware Sampling Date: 2014/05/30
Applicant/Owner: Williams State: Sampling Point: DE-1A-W475-WET1
Investigator(s): PL;KH USGS Quad: Franklin Section, Township, Range: Sidney
Landform: Drainage Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 1
Subregion: Middle Atlantic Latitude: 42.354899 Longitude: -75.23146 Datum: NAD 1983
Soil Map Unit Name: Morris flaggy silt loam, 3 to 8 percent slopes NWI Classification: Not mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: <u>PFO</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input checked="" type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|---|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input checked="" type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Acer rubrum</i>	75	YES	FAC
<i>Carya ovata</i>	10	NO	FACU
Total Cover: 85			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Impatiens capensis</i>	40	YES	FACW
<i>Solidago rugosa</i>	8	NO	FAC
<i>Onoclea sensibilis</i>	30	YES	FACW
Total Cover: 78			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

Dominance Test Worksheet: Number of Dominant Species that are OBL, FACW, or FAC: 3 (A) Total Number of Dominant Species Across All Strata: 3 (B) Percent of Dominant Species that are OBL, FACW, or FAC: 100 (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: 0</td> <td>x 1 = 0</td> </tr> <tr> <td>FACW Species: 70</td> <td>x 2 = 140</td> </tr> <tr> <td>FAC Species: 83</td> <td>x 3 = 249</td> </tr> <tr> <td>FACU Species: 10</td> <td>x 4 = 40</td> </tr> <tr> <td>UPL Species: 0</td> <td>x 5 = 0</td> </tr> <tr> <td>Column Totals: 163 (A)</td> <td>429 (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = 2.63</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: 0	x 1 = 0	FACW Species: 70	x 2 = 140	FAC Species: 83	x 3 = 249	FACU Species: 10	x 4 = 40	UPL Species: 0	x 5 = 0	Column Totals: 163 (A)	429 (B)	Prevalence Index = B/A = 2.63	
Total % Cover of:	Multiply by:																
OBL Species: 0	x 1 = 0																
FACW Species: 70	x 2 = 140																
FAC Species: 83	x 3 = 249																
FACU Species: 10	x 4 = 40																
UPL Species: 0	x 5 = 0																
Column Totals: 163 (A)	429 (B)																
Prevalence Index = B/A = 2.63																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-8	5YR 3/1	100					FINE SANDY LOAM	
8-16	7.5YR 5/2	92	7.5YR 5/6	8	C	M	FINE SANDY LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
--	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks: 	

Photos	
<div data-bbox="480 548 1070 1018" data-label="Image"> </div> <div data-bbox="66 1024 1485 1062"> <div> Photo Name: DE1AW475_053014_WET1W.jpg </div> <div> Note: DE-1A-W475-WET1 </div> </div>	

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 62.45772 City/County: Delaware Sampling Date: 2014/05/30
Applicant/Owner: Williams State: _____ Sampling Point: DE-1A-W475-UPL1
Investigator(s): PL;KH USGS Quad: Franklin Section, Township, Range: Sidney
Landform: Drainageway Local Relief: ☐ Concave ☐ Convex ☒ None Slope (%): 1
Subregion: Middle Atlantic Latitude: 42.354659 Longitude: -75.23115 Datum: NAD 1983
Soil Map Unit Name: Morris flaggy silt loam, 3 to 8 percent slopes NWI Classification: Not mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is the Sampled Area within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Remarks: <u>Upland plot; W474 & W475</u>	
Field Wetland Classification:	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches): _____
Water Table Present: ☐ Yes ☒ No Depth (inches): _____
Saturation Present: ☐ Yes ☒ No Depth (inches): _____

Wetland Hydrology Present? ☐ Yes ☒ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Tsuga canadensis</i>	40	YES	FACU
<i>Betula nigra</i>	8	NO	FACW
<i>Acer rubrum</i>	20	YES	FAC
<i>Betula alleghaniensis</i>	10	NO	FAC
Total Cover: 78			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Maianthemum canadense</i>	55	YES	FACU
<i>Coptis trifolia</i>	5	YES	FACW
Total Cover: 60			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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>4</u> (B) Percent of Dominant Species that are OBL, FACW, or FAC: <u>50</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <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>13</u></td> <td>x 2 = <u>26</u></td> </tr> <tr> <td>FAC Species: <u>30</u></td> <td>x 3 = <u>90</u></td> </tr> <tr> <td>FACU Species: <u>95</u></td> <td>x 4 = <u>380</u></td> </tr> <tr> <td>UPL Species: <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>138</u> (A)</td> <td><u>496</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>3.59</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: <u>0</u>	x 1 = <u>0</u>	FACW Species: <u>13</u>	x 2 = <u>26</u>	FAC Species: <u>30</u>	x 3 = <u>90</u>	FACU Species: <u>95</u>	x 4 = <u>380</u>	UPL Species: <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>138</u> (A)	<u>496</u> (B)	Prevalence Index = B/A = <u>3.59</u>	
Total % Cover of:	Multiply by:																
OBL Species: <u>0</u>	x 1 = <u>0</u>																
FACW Species: <u>13</u>	x 2 = <u>26</u>																
FAC Species: <u>30</u>	x 3 = <u>90</u>																
FACU Species: <u>95</u>	x 4 = <u>380</u>																
UPL Species: <u>0</u>	x 5 = <u>0</u>																
Column Totals: <u>138</u> (A)	<u>496</u> (B)																
Prevalence Index = B/A = <u>3.59</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-6	7.5YR 3/1	100					FINE SANDY LOAM	
6-14	7.5YR 3/4	100					FINE SANDY LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
---	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Remarks:	

Photos	
<div data-bbox="480 548 1068 1018" data-label="Image"> </div> <div data-bbox="66 1024 1485 1062"> <div>Photo Name: DE1AW475_053014_UPL1NE.jpg</div> <div>Note: DE-1A-W475-UPL1</div> </div>	

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 62.43746 City/County: Delaware Sampling Date: 2014/05/30
Applicant/Owner: Williams State: _____ Sampling Point: DE-1A-W476-WET1
Investigator(s): PL;KH USGS Quad: Franklin Section, Township, Range: Sidney
Landform: Depression Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 0
Subregion: Middle Atlantic Latitude: 42.354429 Longitude: -75.23145 Datum: NAD 1983
Soil Map Unit Name: Morris flaggy silt loam, 3 to 8 percent slopes NWI Classification: Not mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: <u>PFO</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input checked="" type="checkbox"/> Water Stained Leaves (B9) |
| <input checked="" type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches): _____
Water Table Present: ☒ Yes ☐ No Depth (inches): 0
Saturation Present: ☐ Yes ☒ No Depth (inches): _____

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Tsuga canadensis</i>	70	YES	FAC
<i>Betula alleghaniensis</i>	20	NO	FAC
Total Cover: 90			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Onoclea sensibilis</i>	15	YES	FACW
Total Cover: 15			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <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>15</u></td> <td>x 2 = <u>30</u></td> </tr> <tr> <td>FAC Species: <u>90</u></td> <td>x 3 = <u>270</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>105</u> (A)</td> <td><u>300</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.86</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: <u>0</u>	x 1 = <u>0</u>	FACW Species: <u>15</u>	x 2 = <u>30</u>	FAC Species: <u>90</u>	x 3 = <u>270</u>	FACU Species: <u>0</u>	x 4 = <u>0</u>	UPL Species: <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>105</u> (A)	<u>300</u> (B)	Prevalence Index = B/A = <u>2.86</u>	
Total % Cover of:	Multiply by:																
OBL Species: <u>0</u>	x 1 = <u>0</u>																
FACW Species: <u>15</u>	x 2 = <u>30</u>																
FAC Species: <u>90</u>	x 3 = <u>270</u>																
FACU Species: <u>0</u>	x 4 = <u>0</u>																
UPL Species: <u>0</u>	x 5 = <u>0</u>																
Column Totals: <u>105</u> (A)	<u>300</u> (B)																
Prevalence Index = B/A = <u>2.86</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input checked="" type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-14	10YR 3/2	100					SILT LOAM	
14-18	10YR 2/2	100					SILT LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
--	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks: 	

Photos	
<div data-bbox="480 548 1070 1018" data-label="Image"> </div> <div data-bbox="66 1026 643 1060" data-label="Text"> <p>Photo Name: DE1AW476_053014_WET1SE.jpg</p> </div> <div data-bbox="821 1026 1123 1056" data-label="Text"> <p>Note: DE-1A-W476-WET1</p> </div>	

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 61.80755 City/County: Delaware Sampling Date: 2014/05/30
Applicant/Owner: Williams State: _____ Sampling Point: DE-1A-W478-WET1
Investigator(s): PL;KH USGS Quad: Franklin Section, Township, Range: Sidney
Landform: Drainage Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 2
Subregion: Middle Atlantic Latitude: 42.352037 Longitude: -75.24240 Datum: NAD 1983
Soil Map Unit Name: Morris and Volusia soils, 2 to 10 percent slopes, very stony NWI Classification: Not mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: <u>PFO</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input checked="" type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input checked="" type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches): _____
Water Table Present: ☒ Yes ☐ No Depth (inches): 0
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Fagus grandifolia</i>	10	NO	FACU
<i>Acer rubrum</i>	40	YES	FAC
<i>Carya ovata</i>	5	NO	FACU
Total Cover: 55			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Fagus grandifolia</i>	15	YES	FACU
<i>Carpinus caroliniana</i>	15	YES	FAC
Total Cover: 30			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Carex crinita</i>	60	YES	OBL
<i>Onoclea sensibilis</i>	5	NO	FACW
<i>Hamamelis virginiana</i>	8	NO	FACU
Total Cover: 73			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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>4</u> (B) Percent of Dominant Species that are OBL, FACW, or FAC: <u>75</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Total % Cover of:</td> <td style="width: 40%;">Multiply by:</td> </tr> <tr> <td>OBL Species: <u>60</u></td> <td>x 1 = <u>60</u></td> </tr> <tr> <td>FACW Species: <u>5</u></td> <td>x 2 = <u>10</u></td> </tr> <tr> <td>FAC Species: <u>55</u></td> <td>x 3 = <u>165</u></td> </tr> <tr> <td>FACU Species: <u>38</u></td> <td>x 4 = <u>152</u></td> </tr> <tr> <td>UPL Species: <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>158</u> (A)</td> <td><u>387</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = <u>2.45</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: <u>60</u>	x 1 = <u>60</u>	FACW Species: <u>5</u>	x 2 = <u>10</u>	FAC Species: <u>55</u>	x 3 = <u>165</u>	FACU Species: <u>38</u>	x 4 = <u>152</u>	UPL Species: <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>158</u> (A)	<u>387</u> (B)	Prevalence Index = B/A = <u>2.45</u>	
Total % Cover of:	Multiply by:																
OBL Species: <u>60</u>	x 1 = <u>60</u>																
FACW Species: <u>5</u>	x 2 = <u>10</u>																
FAC Species: <u>55</u>	x 3 = <u>165</u>																
FACU Species: <u>38</u>	x 4 = <u>152</u>																
UPL Species: <u>0</u>	x 5 = <u>0</u>																
Column Totals: <u>158</u> (A)	<u>387</u> (B)																
Prevalence Index = B/A = <u>2.45</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-4	2.5Y 3/2	100					SILT LOAM	
4-14	2.5Y 4/2	90	10YR 5/6	10	C	M	SILT LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
--	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks: 	

Photos	
<div data-bbox="480 548 1070 1018" data-label="Image"> </div> <div data-bbox="66 1024 1485 1062"> <div> Photo Name: DE1AW478_053014_WET1SE.jpg </div> <div> Note: DE-1A-W478-WET1 </div> </div>	

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 61.67351 City/County: Delaware Sampling Date: 2014/05/30
Applicant/Owner: Williams State: Sampling Point: DE-1A-W478-WET2
Investigator(s): PL;KH USGS Quad: Franklin Section, Township, Range: Sidney
Landform: Drainage Local Relief: ☐ Concave ☐ Convex ☒ None Slope (%): 1
Subregion: Middle Atlantic Latitude: 42.350669 Longitude: -75.24427 Datum: NAD 1983
Soil Map Unit Name: Morris and Volusia soils, 2 to 10 percent slopes, very stony NWI Classification: Not mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: <u>PEM</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input checked="" type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Acer rubrum</i>	40	YES	FAC
<i>Fagus grandifolia</i>	10	NO	FACU
<i>Carya ovata</i>	5	NO	FACU
Total Cover: 55			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Salix sp</i>	15	YES	FACW
Total Cover: 15			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Ranunculus sp</i>	10	NO	FAC
<i>Onoclea sensibilis</i>	8	NO	FACW
<i>Carex stricta</i>	50	YES	OBL
<i>Anthoxanthum odoratum</i>	20	YES	FACU
Total Cover: 88			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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>4</u> (B) Percent of Dominant Species that are OBL, FACW, or FAC: <u>75</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Total % Cover of:</td> <td style="width: 40%;">Multiply by:</td> </tr> <tr> <td>OBL Species: <u>50</u></td> <td>x 1 = <u>50</u></td> </tr> <tr> <td>FACW Species: <u>23</u></td> <td>x 2 = <u>46</u></td> </tr> <tr> <td>FAC Species: <u>50</u></td> <td>x 3 = <u>150</u></td> </tr> <tr> <td>FACU Species: <u>35</u></td> <td>x 4 = <u>140</u></td> </tr> <tr> <td>UPL Species: <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>158</u> (A)</td> <td><u>386</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = <u>2.44</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: <u>50</u>	x 1 = <u>50</u>	FACW Species: <u>23</u>	x 2 = <u>46</u>	FAC Species: <u>50</u>	x 3 = <u>150</u>	FACU Species: <u>35</u>	x 4 = <u>140</u>	UPL Species: <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>158</u> (A)	<u>386</u> (B)	Prevalence Index = B/A = <u>2.44</u>	
Total % Cover of:	Multiply by:																
OBL Species: <u>50</u>	x 1 = <u>50</u>																
FACW Species: <u>23</u>	x 2 = <u>46</u>																
FAC Species: <u>50</u>	x 3 = <u>150</u>																
FACU Species: <u>35</u>	x 4 = <u>140</u>																
UPL Species: <u>0</u>	x 5 = <u>0</u>																
Column Totals: <u>158</u> (A)	<u>386</u> (B)																
Prevalence Index = B/A = <u>2.44</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-4	7.5YR 3/2	97	7.5YR 2.5Y/3	3	C	M	SILT LOAM	Organic matter
4-14+	2.5Y 4/2	90	10YR 5/6	10	C	M	SILT LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
--	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks:	

Photos	
	
Photo Name: DE1AW478_053014_WET2NE.jpg	Note: DE-1A-W478-WET2

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 61.82001 City/County: Delaware Sampling Date: 2014/05/30
Applicant/Owner: Williams State: _____ Sampling Point: DE-1A-W478-UPL1
Investigator(s): PL;KH USGS Quad: Franklin Section, Township, Range: Sidney
Landform: N/A Local Relief: ☐ Concave ☐ Convex ☒ None Slope (%): 10
Subregion: Middle Atlantic Latitude: 42.352177 Longitude: -75.24225 Datum: NAD 1983
Soil Map Unit Name: Morris and Volusia soils, 2 to 10 percent slopes, very stony NWI Classification: Not mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is the Sampled Area within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Remarks: <u>Upland plot</u>	
Field Wetland Classification:	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches): _____
Water Table Present: ☐ Yes ☒ No Depth (inches): _____
Saturation Present: ☐ Yes ☒ No Depth (inches): _____

Wetland Hydrology Present? ☐ Yes ☒ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Carpinus caroliniana</i>	45	YES	FAC
<i>Ostrya virginiana</i>	25	YES	FACU
<i>Acer saccharum</i>	15	NO	FACU
Total Cover: 85			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Acer saccharum</i>	8	YES	FACU
Total Cover: 8			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Hamamelis virginiana</i>	10	YES	FACU
Total Cover: 10			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Ostrya virginiana</i>	3	NO	FACU
<i>Anthoxanthum odoratum</i>	40	YES	FACU
<i>Fagus grandifolia</i>	5	NO	FACU
Total Cover: 48			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

Dominance Test Worksheet: Number of Dominant Species that are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species Across All Strata: 5 (B) Percent of Dominant Species that are OBL, FACW, or FAC: 20 (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: 0</td> <td>x 1 = 0</td> </tr> <tr> <td>FACW Species: 0</td> <td>x 2 = 0</td> </tr> <tr> <td>FAC Species: 45</td> <td>x 3 = 135</td> </tr> <tr> <td>FACU Species: 106</td> <td>x 4 = 424</td> </tr> <tr> <td>UPL Species: 0</td> <td>x 5 = 0</td> </tr> <tr> <td>Column Totals: 151 (A)</td> <td>559 (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = 3.70</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: 0	x 1 = 0	FACW Species: 0	x 2 = 0	FAC Species: 45	x 3 = 135	FACU Species: 106	x 4 = 424	UPL Species: 0	x 5 = 0	Column Totals: 151 (A)	559 (B)	Prevalence Index = B/A = 3.70	
Total % Cover of:	Multiply by:																
OBL Species: 0	x 1 = 0																
FACW Species: 0	x 2 = 0																
FAC Species: 45	x 3 = 135																
FACU Species: 106	x 4 = 424																
UPL Species: 0	x 5 = 0																
Column Totals: 151 (A)	559 (B)																
Prevalence Index = B/A = 3.70																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-6	7.5YR 3/2	100					FINE SANDY LOAM	
6-14	7.5YR 4/4	100					FINE SANDY LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
---	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Remarks:	

Photos	
	
Photo Name: DE1AW478_053014_UPL1N.jpg	Note: DE-1A-W478-UPL1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost _____ City/County: Delaware Sampling Date: 2014/06/18
Applicant/Owner: Williams State: _____ Sampling Point: DE-1A-W484-WET1
Investigator(s): PL, TS USGS Quad: West Davenport Section, Township, Range: Davenport
Landform: Drainageway Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 0
Subregion: Middle Atlantic Latitude: 42.455580 Longitude: -74.89796 Datum: NAD 1983
Soil Map Unit Name: Deposit gravely silt loam NWI Classification: Not mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: <u>PEM</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|--|
| <input checked="" type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|---|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☒ Yes ☐ No Depth (inches): 2
Water Table Present: ☒ Yes ☐ No Depth (inches): 0
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Juncus effusus</i>	8	NO	OBL
<i>Ranunculus acris</i>	60	YES	FAC
<i>Carex crinita</i>	25	YES	OBL
<i>Eleocharis obtusa</i>	5	NO	OBL
Total Cover: 98			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

Dominance Test Worksheet: Number of Dominant Species that are OBL, FACW, or FAC: 2 (A) Total Number of Dominant Species Across All Strata: 2 (B) Percent of Dominant Species that are OBL, FACW, or FAC: 100 (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: 38</td> <td>x 1 = 38</td> </tr> <tr> <td>FACW Species: 0</td> <td>x 2 = 0</td> </tr> <tr> <td>FAC Species: 60</td> <td>x 3 = 180</td> </tr> <tr> <td>FACU Species: 0</td> <td>x 4 = 0</td> </tr> <tr> <td>UPL Species: 0</td> <td>x 5 = 0</td> </tr> <tr> <td>Column Totals: 98 (A)</td> <td>218 (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = 2.22</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: 38	x 1 = 38	FACW Species: 0	x 2 = 0	FAC Species: 60	x 3 = 180	FACU Species: 0	x 4 = 0	UPL Species: 0	x 5 = 0	Column Totals: 98 (A)	218 (B)	Prevalence Index = B/A = 2.22	
Total % Cover of:	Multiply by:																
OBL Species: 38	x 1 = 38																
FACW Species: 0	x 2 = 0																
FAC Species: 60	x 3 = 180																
FACU Species: 0	x 4 = 0																
UPL Species: 0	x 5 = 0																
Column Totals: 98 (A)	218 (B)																
Prevalence Index = B/A = 2.22																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	<div style="text-align: right;"> Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No </div>																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-5	2.5Y 3/2	92	10YR 3/4	8	C	PL	FINE SANDY LOAM	
5-15	10YR 4/1	90	10YR 3/4	10	C	M,PL	FINE SANDY LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
--	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks: 	

Photos	
	
Photo Name: DE1AW484_061814_WET1SW.jpg	Note: DE-1A-W484-WET1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost City/County: Delaware Sampling Date: 2014/06/18
Applicant/Owner: Williams State: Sampling Point: DE-1A-W484-UPL1
Investigator(s): PL, TS USGS Quad: West Davenport Section, Township, Range: Davenport
Landform: Plain Local Relief: ☐ Concave ☒ Convex ☐ None Slope (%): 2
Subregion: Middle Atlantic Latitude: 42.455944 Longitude: -74.89801 Datum: NAD 1983
Soil Map Unit Name: Deposit gravelly silt loam NWI Classification: Not mapped

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? ☐ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is the Sampled Area within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Remarks: <u>Upland</u>	
Field Wetland Classification: <u> </u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☐ Yes ☒ No Depth (inches):

Wetland Hydrology Present? ☐ Yes ☒ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Trifolium repens</i>	15	NO	FACU
<i>Dactylis glomerata</i>	85	YES	FACU
Total Cover: 100			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

Dominance Test Worksheet: Number of Dominant Species that are OBL, FACW, or FAC: 0 (A) Total Number of Dominant Species Across All Strata: 1 (B) Percent of Dominant Species that are OBL, FACW, or FAC: 0 (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: 0</td> <td>x 1 = 0</td> </tr> <tr> <td>FACW Species: 0</td> <td>x 2 = 0</td> </tr> <tr> <td>FAC Species: 0</td> <td>x 3 = 0</td> </tr> <tr> <td>FACU Species: 100</td> <td>x 4 = 400</td> </tr> <tr> <td>UPL Species: 0</td> <td>x 5 = 0</td> </tr> <tr> <td>Column Totals: 100 (A)</td> <td>400 (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = 4.00</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: 0	x 1 = 0	FACW Species: 0	x 2 = 0	FAC Species: 0	x 3 = 0	FACU Species: 100	x 4 = 400	UPL Species: 0	x 5 = 0	Column Totals: 100 (A)	400 (B)	Prevalence Index = B/A = 4.00	
Total % Cover of:	Multiply by:																
OBL Species: 0	x 1 = 0																
FACW Species: 0	x 2 = 0																
FAC Species: 0	x 3 = 0																
FACU Species: 100	x 4 = 400																
UPL Species: 0	x 5 = 0																
Column Totals: 100 (A)	400 (B)																
Prevalence Index = B/A = 4.00																	

Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	<div style="text-align: center; font-size: 1.2em;"> Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No </div>
Remarks:	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-12	10YR 3/2	100				None	FINE SANDY LOAM	
12-20	10YR 4/4	100					FINE SANDY LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- | | |
|---|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Stratified Layers (A5) | <input type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sandy Redox (S5) | |
| <input type="checkbox"/> Stripped Matrix (S6) | |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | |

Indicators for Problematic Hydric Soils

- ☐ 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- ☐ Coast: Prairie Redox (A16) (LRR K, L, R)
- ☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- ☐ Dark Surface (S7) (LRR K, L, M)
- ☐ Polyvalue Below Surface (S8) (LRR K, L)
- ☐ Thin Dark Surface (S9) (LRR K, L)
- ☐ Iron-Manganese Masses (F12) (LRR K, L, R)
- ☐ Piedmont Floodplain Soils (F19) (MLRA 149B)
- ☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- ☐ Red Parent Material (F21)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? ☐ Yes ☒ No

Remarks:

Photos



Photo Name: DE1AW484_061814_UPL1S.jpg

Note: DE-1A-W484-UPL1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost _____ City/County: Delaware Sampling Date: 2014/06/18
Applicant/Owner: Williams State: _____ Sampling Point: DE-1A-W485-WET1
Investigator(s): PL, TS USGS Quad: West Davenport Section, Township, Range: Davenport
Landform: Depression Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 0
Subregion: Middle Atlantic Latitude: 42.456383 Longitude: -74.89792 Datum: NAD 1983
Soil Map Unit Name: Deposit gravely silt loam NWI Classification: Not mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: <u>PEM</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|--|
| <input checked="" type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|---|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☒ Yes ☐ No Depth (inches): 2
Water Table Present: ☒ Yes ☐ No Depth (inches): 0
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Juncus effusus</i>	20	YES	OBL
<i>Ranunculus acris</i>	60	YES	FAC
<i>Eleocharis obtusa</i>	8	NO	OBL
Total Cover: 88			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

Dominance Test Worksheet: Number of Dominant Species that are OBL, FACW, or FAC: 2 (A) Total Number of Dominant Species Across All Strata: 2 (B) Percent of Dominant Species that are OBL, FACW, or FAC: 100 (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Total % Cover of:</td> <td style="width: 40%;">Multiply by:</td> </tr> <tr> <td>OBL Species: 28</td> <td>x 1 = 28</td> </tr> <tr> <td>FACW Species: 0</td> <td>x 2 = 0</td> </tr> <tr> <td>FAC Species: 60</td> <td>x 3 = 180</td> </tr> <tr> <td>FACU Species: 0</td> <td>x 4 = 0</td> </tr> <tr> <td>UPL Species: 0</td> <td>x 5 = 0</td> </tr> <tr> <td>Column Totals: 88 (A)</td> <td>208 (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = 2.36</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: 28	x 1 = 28	FACW Species: 0	x 2 = 0	FAC Species: 60	x 3 = 180	FACU Species: 0	x 4 = 0	UPL Species: 0	x 5 = 0	Column Totals: 88 (A)	208 (B)	Prevalence Index = B/A = 2.36	
Total % Cover of:	Multiply by:																
OBL Species: 28	x 1 = 28																
FACW Species: 0	x 2 = 0																
FAC Species: 60	x 3 = 180																
FACU Species: 0	x 4 = 0																
UPL Species: 0	x 5 = 0																
Column Totals: 88 (A)	208 (B)																
Prevalence Index = B/A = 2.36																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	<div style="text-align: right;"> Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No </div>																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-5	2.5Y 3/2	90	10YR 3/4	10	C	PL	FINE SANDY LOAM	
5-15	10YR 4/2	85	10YR 3/4	15	C	M,PL	FINE SANDY LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
--	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks:	

Photos	
	
Photo Name: DE1AW485_061814_WET1NE.jpg	Note: DE-1A-W485-WET1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost City/County: Delaware Sampling Date: 2014/06/18
Applicant/Owner: Williams State: Sampling Point: DE-1A-W486-WET1
Investigator(s): PL, TS USGS Quad: West Davenport Section, Township, Range: Davenport
Landform: Depressions Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 0
Subregion: Middle Atlantic Latitude: 42.456334 Longitude: -74.89874 Datum: NAD 1983
Soil Map Unit Name: Deposit gravely silt loam NWI Classification: Not mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: <u>PEM</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|---|--|
| <input checked="" type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input checked="" type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☒ Yes ☐ No Depth (inches): 3
Water Table Present: ☒ Yes ☐ No Depth (inches): 0
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Eleocharis obtusa</i>	25	YES	OBL
<i>Ranunculus acris</i>	70	YES	FAC
Total Cover: 95			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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</u> (A/B)	Prevalence Index Worksheet: Total % Cover of: _____ Multiply by: _____ OBL Species: <u>25</u> x 1 = <u>25</u> FACW Species: <u>0</u> x 2 = <u>0</u> FAC Species: <u>70</u> x 3 = <u>210</u> FACU Species: <u>0</u> x 4 = <u>0</u> UPL Species: <u>0</u> x 5 = <u>0</u> Column Totals: <u>95</u> (A) <u>235</u> (B) Prevalence Index = B/A = <u>2.47</u>
---	--

Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks:	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-5	2.5Y 3/2	90	10YR 3/4	10	C	PL	FINE SANDY LOAM	
5-15	10YR 4/2	87	10YR 3/4	13	C	M,PL	FINE SANDY LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- | | |
|---|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Stratified Layers (A5) | <input checked="" type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sandy Redox (S5) | |
| <input type="checkbox"/> Stripped Matrix (S6) | |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | |

Indicators for Problematic Hydric Soils

- ☐ 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- ☐ Coast: Prairie Redox (A16) (LRR K, L, R)
- ☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- ☐ Dark Surface (S7) (LRR K, L, M)
- ☐ Polyvalue Below Surface (S8) (LRR K, L)
- ☐ Thin Dark Surface (S9) (LRR K, L)
- ☐ Iron-Manganese Masses (F12) (LRR K, L, R)
- ☐ Piedmont Floodplain Soils (F19) (MLRA 149B)
- ☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- ☐ Red Parent Material (F21)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? ☒ Yes ☐ No

Remarks:

Photos



Photo Name: DE1AW486_061814_WET1NW.jpg

Note: DE-1A-W486-WET1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost City/County: Delaware Sampling Date: 2014/06/18
Applicant/Owner: Williams State: Sampling Point: DE-1A-W487-WET1
Investigator(s): PL, TS USGS Quad: West Davenport Section, Township, Range: Davenport
Landform: Drainage Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 0
Subregion: Middle Atlantic Latitude: 42.455926 Longitude: -74.89839 Datum: NAD 1983
Soil Map Unit Name: Deposit gravely silt loam NWI Classification: Not mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: <u>PEM</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|---|--|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input checked="" type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input checked="" type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☒ Yes ☐ No Depth (inches): 0
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Ranunculus acris</i>	65	YES	FAC
<i>Carex crinita</i>	25	YES	OBL
Total Cover: 90			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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</u> (A/B)	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>25</u></td> <td>x 1 = <u>25</u></td> </tr> <tr> <td>FACW Species: <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC Species: <u>65</u></td> <td>x 3 = <u>195</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>90</u> (A)</td> <td><u>220</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.44</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: <u>25</u>	x 1 = <u>25</u>	FACW Species: <u>0</u>	x 2 = <u>0</u>	FAC Species: <u>65</u>	x 3 = <u>195</u>	FACU Species: <u>0</u>	x 4 = <u>0</u>	UPL Species: <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>90</u> (A)	<u>220</u> (B)	Prevalence Index = B/A = <u>2.44</u>	
Total % Cover of:	Multiply by:																
OBL Species: <u>25</u>	x 1 = <u>25</u>																
FACW Species: <u>0</u>	x 2 = <u>0</u>																
FAC Species: <u>65</u>	x 3 = <u>195</u>																
FACU Species: <u>0</u>	x 4 = <u>0</u>																
UPL Species: <u>0</u>	x 5 = <u>0</u>																
Column Totals: <u>90</u> (A)	<u>220</u> (B)																
Prevalence Index = B/A = <u>2.44</u>																	

Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks:	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-5	2.5Y 3/2	92	10YR 3/4	8	C	PL	FINE SANDY LOAM	
5-15	10YR 4/2	87	10YR 3/4	13	C	M,PL	FINE SANDY LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- | | |
|---|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Stratified Layers (A5) | <input checked="" type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sandy Redox (S5) | |
| <input type="checkbox"/> Stripped Matrix (S6) | |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | |

Indicators for Problematic Hydric Soils

- ☐ 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- ☐ Coast: Prairie Redox (A16) (LRR K, L, R)
- ☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- ☐ Dark Surface (S7) (LRR K, L, M)
- ☐ Polyvalue Below Surface (S8) (LRR K, L)
- ☐ Thin Dark Surface (S9) (LRR K, L)
- ☐ Iron-Manganese Masses (F12) (LRR K, L, R)
- ☐ Piedmont Floodplain Soils (F19) (MLRA 149B)
- ☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- ☐ Red Parent Material (F21)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? ☒ Yes ☐ No

Remarks:

Photos



Photo Name: DE1AW487_061814_WET1S.jpg

Note: DE-1A-W487-WET1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost City/County: Delaware Sampling Date: 2014/06/18
Applicant/Owner: Williams State: Sampling Point: DE-1A-W488-WET1
Investigator(s): PL, TS USGS Quad: West Davenport Section, Township, Range: Davenport
Landform: DRAINAGE Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 1
Subregion: Middle Atlantic Latitude: 42.456724 Longitude: -74.89960 Datum: NAD 1983
Soil Map Unit Name: Deposit gravely silt loam NWI Classification: Not mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: <u>PEM</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|---|--|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input checked="" type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input checked="" type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input checked="" type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☒ Yes ☐ No Depth (inches): 0
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Carex crinita</i>	45	YES	OBL
<i>Ranunculus acris</i>	40	YES	FAC
<i>Trifolium repens</i>	5	NO	FACU
Total Cover: 90			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

Dominance Test Worksheet: Number of Dominant Species that are OBL, FACW, or FAC: 2 (A) Total Number of Dominant Species Across All Strata: 2 (B) Percent of Dominant Species that are OBL, FACW, or FAC: 100 (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: 45</td> <td>x 1 = 45</td> </tr> <tr> <td>FACW Species: 0</td> <td>x 2 = 0</td> </tr> <tr> <td>FAC Species: 40</td> <td>x 3 = 120</td> </tr> <tr> <td>FACU Species: 5</td> <td>x 4 = 20</td> </tr> <tr> <td>UPL Species: 0</td> <td>x 5 = 0</td> </tr> <tr> <td>Column Totals: 90 (A)</td> <td>185 (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = 2.06</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: 45	x 1 = 45	FACW Species: 0	x 2 = 0	FAC Species: 40	x 3 = 120	FACU Species: 5	x 4 = 20	UPL Species: 0	x 5 = 0	Column Totals: 90 (A)	185 (B)	Prevalence Index = B/A = 2.06	
Total % Cover of:	Multiply by:																
OBL Species: 45	x 1 = 45																
FACW Species: 0	x 2 = 0																
FAC Species: 40	x 3 = 120																
FACU Species: 5	x 4 = 20																
UPL Species: 0	x 5 = 0																
Column Totals: 90 (A)	185 (B)																
Prevalence Index = B/A = 2.06																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	<div style="text-align: right; font-weight: bold;"> Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No </div>																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-5	2.5Y 3/2	95	10YR 3/4	5	C	PL	FINE SANDY LOAM	
5-15	10YR 4/2	89	10YR 3/4	11	C	M,PL	FINE SANDY LOAM	


¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
--	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks:	

Photos	
	
Photo Name: DE1AW488_061814_WET1S.jpg	Note: DE-1A-W488-WET1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 70.6 City/County: Delaware Sampling Date: 2013/04/02
Applicant/Owner: Williams State: NY Sampling Point: DE-1B-W270-WET1
Investigator(s): CH, SH USGS Quad: Oneonta Section, Township, Range: Franklin
Landform: _____ Local Relief: ☐ Concave ☐ Convex ☐ None Slope (%): _____
Subregion: Middle Atlantic Latitude: 42.419889 Longitude: -75.06151 Datum: NAD1983
Soil Map Unit Name: Onteora channery silt loam, 0 to 3 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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: <u>ADJACENT TO DE-1P-S059</u>	
Field Wetland Classification: <u>PFO</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input checked="" type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input checked="" type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input checked="" type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☒ Yes ☐ No Depth (inches): 1
Water Table Present: ☒ Yes ☐ No Depth (inches): _____
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Quercus rubra</i>	40	YES	FACU
<i>Quercus prinus</i>	25	YES	UPL
<i>Acer saccharum</i>	15	NO	FACU
Total Cover: 80			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Fagus grandifolia</i>	10	YES	FACU
Total Cover: 10			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Betula lenta</i>	5	YES	FACU
Total Cover: 5			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Osmunda cinnamomea</i>	40	YES	FACW
<i>Sphagnum sp.</i>	75	NA	NONE
Total Cover: 115			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

Dominance Test Worksheet: Number of Dominant Species that are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species Across All Strata: 5 (B) Percent of Dominant Species that are OBL, FACW, or FAC: 20 (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: 0</td> <td>x 1 = 0</td> </tr> <tr> <td>FACW Species: 40</td> <td>x 2 = 80</td> </tr> <tr> <td>FAC Species: 0</td> <td>x 3 = 0</td> </tr> <tr> <td>FACU Species: 70</td> <td>x 4 = 280</td> </tr> <tr> <td>UPL Species: 25</td> <td>x 5 = 125</td> </tr> <tr> <td>Column Totals: 135 (A)</td> <td>485 (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = 3.59</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: 0	x 1 = 0	FACW Species: 40	x 2 = 80	FAC Species: 0	x 3 = 0	FACU Species: 70	x 4 = 280	UPL Species: 25	x 5 = 125	Column Totals: 135 (A)	485 (B)	Prevalence Index = B/A = 3.59	
Total % Cover of:	Multiply by:																
OBL Species: 0	x 1 = 0																
FACW Species: 40	x 2 = 80																
FAC Species: 0	x 3 = 0																
FACU Species: 70	x 4 = 280																
UPL Species: 25	x 5 = 125																
Column Totals: 135 (A)	485 (B)																
Prevalence Index = B/A = 3.59																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input checked="" type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																
Remarks: Problematic vegetation, hydric soils and hydrology present.																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-16	7.5YR 4/2	90	7.5YR 4/6	5	C	M	SILT LOAM	AND 5% 10YR 2/1

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
--	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks:	

Photos	
	
Photo Name: DE1BW270_04022013_WET1.jpg	Note: DE-1B-W270 WET1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 70.6 City/County: Delaware Sampling Date: 2013/04/02
Applicant/Owner: Williams State: NY Sampling Point: DE-1B-W270-UPL1
Investigator(s): CH, SH USGS Quad: Oneonta Section, Township, Range: Franklin
Landform: _____ Local Relief: ☐ Concave ☐ Convex ☐ None Slope (%): _____
Subregion: Middle Atlantic Latitude: -75.03420 Longitude: -75.03420 Datum: NAD1983
Soil Map Unit Name: Onteora channery silt loam, 0 to 3 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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is the Sampled Area within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Remarks: <u>UPLAND PLOT</u> <u>4" SNOW</u>	
Field Wetland Classification: _____	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches): _____
Water Table Present: ☐ Yes ☒ No Depth (inches): _____
Saturation Present: ☐ Yes ☒ No Depth (inches): _____

Wetland Hydrology Present? ☐ Yes ☒ No

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

Remarks: _____

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Acer saccharum</i>	10	NO	FACU
<i>Quercus rubra</i>	60	YES	FACU
<i>Prunus serotina</i>	5	NO	FACU
Total Cover: 75			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Fagus grandifolia</i>	30	YES	FACU
<i>Vaccinium angustifolium</i>	10	YES	FACU
Total Cover: 40			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

Dominance Test Worksheet: Number of Dominant Species that are OBL, FACW, or FAC: _____ 0 (A) Total Number of Dominant Species Across All Strata: _____ 3 (B) Percent of Dominant Species that are OBL, FACW, or FAC: _____ 0 (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Total % Cover of:</td> <td style="width: 40%;">Multiply by:</td> </tr> <tr> <td>OBL Species: _____ 0</td> <td>x 1 = _____ 0</td> </tr> <tr> <td>FACW Species: _____ 0</td> <td>x 2 = _____ 0</td> </tr> <tr> <td>FAC Species: _____ 0</td> <td>x 3 = _____ 0</td> </tr> <tr> <td>FACU Species: _____ 115</td> <td>x 4 = _____ 460</td> </tr> <tr> <td>UPL Species: _____ 0</td> <td>x 5 = _____ 0</td> </tr> <tr> <td>Column Totals: _____ 115 (A)</td> <td>_____ 460 (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = _____ 4.00</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: _____ 0	x 1 = _____ 0	FACW Species: _____ 0	x 2 = _____ 0	FAC Species: _____ 0	x 3 = _____ 0	FACU Species: _____ 115	x 4 = _____ 460	UPL Species: _____ 0	x 5 = _____ 0	Column Totals: _____ 115 (A)	_____ 460 (B)	Prevalence Index = B/A = _____ 4.00	
Total % Cover of:	Multiply by:																
OBL Species: _____ 0	x 1 = _____ 0																
FACW Species: _____ 0	x 2 = _____ 0																
FAC Species: _____ 0	x 3 = _____ 0																
FACU Species: _____ 115	x 4 = _____ 460																
UPL Species: _____ 0	x 5 = _____ 0																
Column Totals: _____ 115 (A)	_____ 460 (B)																
Prevalence Index = B/A = _____ 4.00																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-1	10YR 2/2	60					LOAM	
1-18	7.5YR 4/4	100					SILT LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Greyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
---	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Remarks:	

Photos	
	
Photo Name: DE1BW270_04022013_UPLAND1.jpg	Note: DE-1B-W270-UPL1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 54.13 City/County: Delaware Sampling Date: 2013/09/12
Applicant/Owner: Williams State: NY Sampling Point: DE-1C-W158A-WET1
Investigator(s): RR;KH USGS Quad: Unadilla Section, Township, Range: Sidney
Landform: Hillside Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 8
Subregion: Middle Atlantic Latitude: 42.289866 Longitude: -75.35009 Datum: NAD 1983
Soil Map Unit Name: Halcott, Mongaup, and Vly soils, 15 to 35 percent slopes, very rocky NWI Classification: Not Mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: <u>PEM</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input checked="" type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☒ Yes ☐ No Depth (inches): 3
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Scirpus cyperinus</i>	20	YES	OBL
<i>Euthamia graminifolia</i>	30	YES	FAC
<i>Solidago gigantea</i>	10	NO	FACW
<i>Carex lurida</i>	15	NO	OBL
<i>Agrostis gigantea</i>	5	NO	FACW
<i>Onoclea sensibilis</i>	10	NO	FACW
<i>Spiraea alba</i>	5	NO	FACW
<i>Eupatorium perfoliatum</i>	2	NO	FACW
<i>Epilobium coloratum</i>	3	NO	OBL
Total Cover: 100			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: <u>38</u></td> <td>x 1 = <u>38</u></td> </tr> <tr> <td>FACW Species: <u>32</u></td> <td>x 2 = <u>64</u></td> </tr> <tr> <td>FAC Species: <u>30</u></td> <td>x 3 = <u>90</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>192</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = <u>1.92</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: <u>38</u>	x 1 = <u>38</u>	FACW Species: <u>32</u>	x 2 = <u>64</u>	FAC Species: <u>30</u>	x 3 = <u>90</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>192</u> (B)	Prevalence Index = B/A = <u>1.92</u>	
Total % Cover of:	Multiply by:																
OBL Species: <u>38</u>	x 1 = <u>38</u>																
FACW Species: <u>32</u>	x 2 = <u>64</u>																
FAC Species: <u>30</u>	x 3 = <u>90</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>192</u> (B)																
Prevalence Index = B/A = <u>1.92</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-1	2.5Y 3/2	100				None	LOAM	
1-3	2.5Y 5/1	95	7.5YR 4/6	5	C	PL	LOAM	
3-14	Gley1 4/10Y	100				None	LOAM	Refusal @14"

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- | | |
|---|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input checked="" type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Stratified Layers (A5) | <input type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sandy Redox (S5) | |
| <input type="checkbox"/> Stripped Matrix (S6) | |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | |

Indicators for Problematic Hydric Soils

- | |
|--|
| <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) |
| <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) |
| <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) |
| <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) |
| <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) |
| <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| <input type="checkbox"/> Red Parent Material (F21) |
| <input type="checkbox"/> Very Shallow Dark Surface (TF12) |
| <input type="checkbox"/> Other (Explain in Remarks) |

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? ☒ **Yes** ☐ **No**

Remarks:

Photos

Photo Name: DE1CW158a_091213_WET1NW.jpg

Note: DE-1C-W158A-WET1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 54.13 City/County: Delaware Sampling Date: 2013/09/12
Applicant/Owner: Williams State: NY Sampling Point: DE-1C-W158A-UPL1
Investigator(s): RR;KH USGS Quad: Unadilla Section, Township, Range: Sidney
Landform: hillside Local Relief: ☐ Concave ☐ Convex ☒ None Slope (%): 15
Subregion: Middle Atlantic Latitude: 42.289972 Longitude: -75.35012 Datum: NAD 1983
Soil Map Unit Name: Halcott, Mongaup, and Vly soils, 15 to 35 percent slopes, very rocky NWI Classification: Not Mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is the Sampled Area within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Remarks: <u>Upland plot</u>	
Field Wetland Classification:	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☐ Yes ☒ No Depth (inches):

Wetland Hydrology Present? ☐ Yes ☒ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Quercus rubra</i>	5	YES	FACU
<i>Hamamelis virginiana</i>	15	YES	FACU
Total Cover: 20			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Solidago canadensis</i>	20	YES	FACU
<i>Euthamia graminifolia</i>	20	YES	FAC
<i>Solidago rugosa</i>	10	NO	FAC
<i>Rhus typhina</i>	5	NO	UPL
<i>Rubus allegheniensis</i>	10	NO	FACU
<i>Phleum pratense</i>	5	NO	FACU
<i>Unknown grass</i>	10	NO	NONE
Total Cover: 80			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

Dominance Test Worksheet: Number of Dominant Species that are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species Across All Strata: 4 (B) Percent of Dominant Species that are OBL, FACW, or FAC: 25 (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: 0</td> <td>x 1 = 0</td> </tr> <tr> <td>FACW Species: 0</td> <td>x 2 = 0</td> </tr> <tr> <td>FAC Species: 30</td> <td>x 3 = 90</td> </tr> <tr> <td>FACU Species: 55</td> <td>x 4 = 220</td> </tr> <tr> <td>UPL Species: 5</td> <td>x 5 = 25</td> </tr> <tr> <td>Column Totals: 90 (A)</td> <td>335 (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = 3.72</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: 0	x 1 = 0	FACW Species: 0	x 2 = 0	FAC Species: 30	x 3 = 90	FACU Species: 55	x 4 = 220	UPL Species: 5	x 5 = 25	Column Totals: 90 (A)	335 (B)	Prevalence Index = B/A = 3.72	
Total % Cover of:	Multiply by:																
OBL Species: 0	x 1 = 0																
FACW Species: 0	x 2 = 0																
FAC Species: 30	x 3 = 90																
FACU Species: 55	x 4 = 220																
UPL Species: 5	x 5 = 25																
Column Totals: 90 (A)	335 (B)																
Prevalence Index = B/A = 3.72																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-4	10YR 3/3	100				None	LOAM	10% Gravel
4-16	10YR 4/4	100				None	LOAM	10% Gravel

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
---	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Remarks:	

Photos	
	
Photo Name: DE1CW158a_091213_UPL1NW.jpg	Note: DE-1C-W158A-UPL1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 53.87 City/County: Delaware Sampling Date: 2013/09/13
Applicant/Owner: Williams State: NY Sampling Point: DE-1C-W158B-WET1
Investigator(s): RR;KH;PL USGS Quad: Unadilla Section, Township, Range: Sidney
Landform: Depression Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 2
Subregion: Middle Atlantic Latitude: 42.288747 Longitude: -75.35494 Datum: NAD 1983
Soil Map Unit Name: Mongaup channery loam, 15 to 25 percent slopes NWI Classification: Not Mapped

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? ☐ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: <u>Located at edge of overhead utility corridor.</u>	
Field Wetland Classification: <u>PEM</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Spiraea alba</i>	10	YES	FACW
Total Cover: 10			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Solidago gigantea</i>	20	YES	FACW
<i>Solidago rugosa</i>	25	YES	FAC
<i>Persicaria sagittata</i>	10	NO	OBL
<i>Carex crinita</i>	25	YES	OBL
<i>Impatiens capensis</i>	10	NO	FACW
<i>Euthamia graminifolia</i>	10	NO	FAC
Total Cover: 100			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

Dominance Test Worksheet: Number of Dominant Species that are OBL, FACW, or FAC: 4 (A) Total Number of Dominant Species Across All Strata: 4 (B) Percent of Dominant Species that are OBL, FACW, or FAC: 100 (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: 35</td> <td>x 1 = 35</td> </tr> <tr> <td>FACW Species: 40</td> <td>x 2 = 80</td> </tr> <tr> <td>FAC Species: 35</td> <td>x 3 = 105</td> </tr> <tr> <td>FACU Species: 0</td> <td>x 4 = 0</td> </tr> <tr> <td>UPL Species: 0</td> <td>x 5 = 0</td> </tr> <tr> <td>Column Totals: 110 (A)</td> <td>220 (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = 2.00</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: 35	x 1 = 35	FACW Species: 40	x 2 = 80	FAC Species: 35	x 3 = 105	FACU Species: 0	x 4 = 0	UPL Species: 0	x 5 = 0	Column Totals: 110 (A)	220 (B)	Prevalence Index = B/A = 2.00	
Total % Cover of:	Multiply by:																
OBL Species: 35	x 1 = 35																
FACW Species: 40	x 2 = 80																
FAC Species: 35	x 3 = 105																
FACU Species: 0	x 4 = 0																
UPL Species: 0	x 5 = 0																
Column Totals: 110 (A)	220 (B)																
Prevalence Index = B/A = 2.00																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	<div style="text-align: center; font-size: 1.2em;"> Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No </div>																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-14	2.5Y 4/2	85	10YR 4/6	15	C	M,PL	LOAM	
14-18	5Y 4/1	85	7.5YR 4/6	15	C	M,PL	CLAY LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
--	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks: 	

Photos	
	
Photo Name: DE1CW158B_091313_WET1W.jpg	Note: DE-1C-W158B-WET1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 53.88 City/County: Delaware Sampling Date: 2013/09/13
Applicant/Owner: Williams State: NY Sampling Point: DE-1C-W158B-UPL1
Investigator(s): RR;KH USGS Quad: Unadilla Section, Township, Range: Sidney
Landform: side slope Local Relief: ☐ Concave ☐ Convex ☒ None Slope (%): 4
Subregion: Middle Atlantic Latitude: 42.288831 Longitude: -75.35487 Datum: NAD 1983
Soil Map Unit Name: Mongaup channery loam, 15 to 25 percent slopes NWI Classification: Not Mapped

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? ☐ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Remarks: <u>Upland plot. Located at edge of overhead utility corridor.</u>	
Field Wetland Classification:	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☐ Yes ☒ No Depth (inches):

Wetland Hydrology Present? ☐ Yes ☒ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Spiraea alba</i>	2	NO	FACW
Total Cover: 2			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Phleum pratense</i>	5	NO	FACU
<i>Solidago rugosa</i>	30	YES	FAC
<i>Solidago canadensis</i>	30	YES	FACU
<i>Fragaria virginiana</i>	5	NO	FACU
<i>Doellingeria umbellata</i>	25	YES	FACW
<i>Asclepias syriaca</i>	5	NO	NONE
Total Cover: 100			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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>67</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <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>27</u></td> <td>x 2 = <u>54</u></td> </tr> <tr> <td>FAC Species: <u>30</u></td> <td>x 3 = <u>90</u></td> </tr> <tr> <td>FACU Species: <u>40</u></td> <td>x 4 = <u>160</u></td> </tr> <tr> <td>UPL Species: <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>97</u> (A)</td> <td><u>304</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = <u>3.13</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: <u>0</u>	x 1 = <u>0</u>	FACW Species: <u>27</u>	x 2 = <u>54</u>	FAC Species: <u>30</u>	x 3 = <u>90</u>	FACU Species: <u>40</u>	x 4 = <u>160</u>	UPL Species: <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>97</u> (A)	<u>304</u> (B)	Prevalence Index = B/A = <u>3.13</u>	
Total % Cover of:	Multiply by:																
OBL Species: <u>0</u>	x 1 = <u>0</u>																
FACW Species: <u>27</u>	x 2 = <u>54</u>																
FAC Species: <u>30</u>	x 3 = <u>90</u>																
FACU Species: <u>40</u>	x 4 = <u>160</u>																
UPL Species: <u>0</u>	x 5 = <u>0</u>																
Column Totals: <u>97</u> (A)	<u>304</u> (B)																
Prevalence Index = B/A = <u>3.13</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-4	10YR 4/3	100					LOAM	
4-16	10YR 4/4	100					LOAM	
16-18	10YR 5/6	100					LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- | | |
|---|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Stratified Layers (A5) | <input type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sandy Redox (S5) | |
| <input type="checkbox"/> Stripped Matrix (S6) | |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | |

Indicators for Problematic Hydric Soils

- | |
|--|
| <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) |
| <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) |
| <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) |
| <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) |
| <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) |
| <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| <input type="checkbox"/> Red Parent Material (F21) |
| <input type="checkbox"/> Very Shallow Dark Surface (TF12) |
| <input type="checkbox"/> Other (Explain in Remarks) |

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? ☐ Yes ☒ No

Remarks:

Photos

Photo Name: DE1CW158B_091313_UPL1W.jpg

Note: DE-1C-W158B-UPL1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 53.89 City/County: Delaware Sampling Date: 2013/09/13
Applicant/Owner: Williams State: NY Sampling Point: DE-1C-W158C-WET1
Investigator(s): RR;KH;PL USGS Quad: Unadilla Section, Township, Range: Sidney
Landform: Drainage Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 3
Subregion: Middle Atlantic Latitude: 42.288843 Longitude: -75.35472 Datum: NAD 1983
Soil Map Unit Name: Mongaup channery loam, 15 to 25 percent slopes NWI Classification: Not Mapped

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? ☐ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Use DE-1C-W158B-UPL1 for representative upland plot. Located within overhead utility corridor.	
Field Wetland Classification: PEM	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input checked="" type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☒ Yes ☐ No Depth (inches): 0
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Scirpus cyperinus</i>	3	NO	OBL
<i>Spiraea tomentosa</i>	7	NO	FACW
<i>Onoclea sensibilis</i>	15	YES	FACW
<i>Sphagnum sp.</i>	15	YES	FACW
<i>Persicaria sagittata</i>	5	NO	OBL
<i>Carex vulpinoidea</i>	10	NO	OBL
<i>Carex crinita</i>	20	YES	OBL
<i>Scirpus atrovirens</i>	10	NO	OBL
<i>Juncus effusus</i>	10	NO	OBL
<i>Carex scoparia</i>	20	YES	FACW
Total Cover: 115			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: <u>58</u></td> <td>x 1 = <u>58</u></td> </tr> <tr> <td>FACW Species: <u>57</u></td> <td>x 2 = <u>114</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>115</u> (A)</td> <td><u>172</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>1.50</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: <u>58</u>	x 1 = <u>58</u>	FACW Species: <u>57</u>	x 2 = <u>114</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>115</u> (A)	<u>172</u> (B)	Prevalence Index = B/A = <u>1.50</u>	
Total % Cover of:	Multiply by:																
OBL Species: <u>58</u>	x 1 = <u>58</u>																
FACW Species: <u>57</u>	x 2 = <u>114</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>115</u> (A)	<u>172</u> (B)																
Prevalence Index = B/A = <u>1.50</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-3	2.5Y 6/1	90	10YR 5/6	10	C	PL	SANDY LOAM	
3-16	2.5Y 6/2	80	10YR 5/6	20	C	M,PL	SANDY LOAM	W/gravel;rock refusal @16"

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
--	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks: 	

Photos	
<div data-bbox="461 548 1089 1018" data-label="Image"> </div> <div data-bbox="66 1024 1485 1062"> <div> Photo Name: DE1CW158C_091313_WET1E.jpg </div> <div> Note: DE-1C-W158C-WET1 </div> </div>	

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 70.8 City/County: Delaware Sampling Date: 2013/08/16
Applicant/Owner: Williams State: NY Sampling Point: DE-1C-W329-WET1
Investigator(s): RR;KH USGS Quad: Oneonta Section, Township, Range: Franklin
Landform: Drainageway Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 3
Subregion: Middle Atlantic Latitude: 42.404053 Longitude: -75.09146 Datum: NAD1983
Soil Map Unit Name: Morris flaggy silt loam, 8 to 15 percent slopes NWI Classification: Not Mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: <u>PEM</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input checked="" type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input checked="" type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☒ Yes ☐ No Depth (inches): 2
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Pinus strobus</i>	20	YES	FACU
<i>Salix nigra</i>	5	YES	OBL
Total Cover: 25			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Spiraea tomentosa</i>	5	YES	FACW
Total Cover: 5			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Scirpus cyperinus</i>	25	YES	OBL
<i>Solidago gigantea</i>	20	YES	FACW
<i>Solidago rugosa</i>	15	NO	FAC
<i>Onoclea sensibilis</i>	10	NO	FACW
<i>Impatiens capensis</i>	10	NO	FACW
<i>Juncus effusus</i>	10	NO	OBL
<i>Carex lurida</i>	5	NO	OBL
<i>Euthamia graminifolia</i>	5	NO	FAC
Total Cover: 100			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

Dominance Test Worksheet: Number of Dominant Species that are OBL, FACW, or FAC: 4 (A) Total Number of Dominant Species Across All Strata: 5 (B) Percent of Dominant Species that are OBL, FACW, or FAC: 80 (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: 45</td> <td>x 1 = 45</td> </tr> <tr> <td>FACW Species: 45</td> <td>x 2 = 90</td> </tr> <tr> <td>FAC Species: 20</td> <td>x 3 = 60</td> </tr> <tr> <td>FACU Species: 20</td> <td>x 4 = 80</td> </tr> <tr> <td>UPL Species: 0</td> <td>x 5 = 0</td> </tr> <tr> <td>Column Totals: 130 (A)</td> <td>275 (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = 2.12</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: 45	x 1 = 45	FACW Species: 45	x 2 = 90	FAC Species: 20	x 3 = 60	FACU Species: 20	x 4 = 80	UPL Species: 0	x 5 = 0	Column Totals: 130 (A)	275 (B)	Prevalence Index = B/A = 2.12	
Total % Cover of:	Multiply by:																
OBL Species: 45	x 1 = 45																
FACW Species: 45	x 2 = 90																
FAC Species: 20	x 3 = 60																
FACU Species: 20	x 4 = 80																
UPL Species: 0	x 5 = 0																
Column Totals: 130 (A)	275 (B)																
Prevalence Index = B/A = 2.12																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-6	7.5YR 4/3	97	7.5YR 4/6	3	C	PL	SANDY LOAM	W/organic material
6-18	7.5YR 4/2	95	7.5YR 4/6	5	C	M,PL	CLAY LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
--	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks: 	

Photos	
<div data-bbox="461 550 1089 1018" data-label="Image"> </div> <div data-bbox="66 1026 1485 1062"> <div> Photo Name: DE1CW329_081613_WET1SW.jpg </div> <div> Note: DE-1C-W329-WET1 </div> </div>	

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 70.9 City/County: Delaware Sampling Date: 2013/08/16
Applicant/Owner: Williams State: NY Sampling Point: DE-1C-W329-UPL1
Investigator(s): RR;KH USGS Quad: Oneonta Section, Township, Range: Franklin
Landform: Knoll Local Relief: ☐ Concave ☒ Convex ☐ None Slope (%): 3
Subregion: Middle Atlantic Latitude: 42.404095 Longitude: -75.09138 Datum: NAD1983
Soil Map Unit Name: Morris flaggy silt loam, 8 to 15 percent slopes NWI Classification: Not Mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is the Sampled Area within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Remarks: <u>Upland plot</u>	
Field Wetland Classification:	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☐ Yes ☒ No Depth (inches):

Wetland Hydrology Present? ☐ Yes ☒ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Pinus strobus</i>	65	YES	FACU
Total Cover: 65			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Vaccinium angustifolium</i>	50	YES	FACU
<i>Crataegus crus-galli</i>	5	NO	FAC
<i>Anthoxanthum odoratum</i>	10	NO	FACU
<i>Satureja vulgaris</i>	5	NO	UPL
Total Cover: 70			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

Dominance Test Worksheet: Number of Dominant Species that are OBL, FACW, or FAC: _____ 0 (A) Total Number of Dominant Species Across All Strata: _____ 2 (B) Percent of Dominant Species that are OBL, FACW, or FAC: _____ 0 (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: _____ 0</td> <td>x 1 = _____ 0</td> </tr> <tr> <td>FACW Species: _____ 0</td> <td>x 2 = _____ 0</td> </tr> <tr> <td>FAC Species: _____ 5</td> <td>x 3 = _____ 15</td> </tr> <tr> <td>FACU Species: _____ 125</td> <td>x 4 = _____ 500</td> </tr> <tr> <td>UPL Species: _____ 5</td> <td>x 5 = _____ 25</td> </tr> <tr> <td>Column Totals: _____ 135 (A)</td> <td>_____ 540 (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = _____ 4.00</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: _____ 0	x 1 = _____ 0	FACW Species: _____ 0	x 2 = _____ 0	FAC Species: _____ 5	x 3 = _____ 15	FACU Species: _____ 125	x 4 = _____ 500	UPL Species: _____ 5	x 5 = _____ 25	Column Totals: _____ 135 (A)	_____ 540 (B)	Prevalence Index = B/A = _____ 4.00	
Total % Cover of:	Multiply by:																
OBL Species: _____ 0	x 1 = _____ 0																
FACW Species: _____ 0	x 2 = _____ 0																
FAC Species: _____ 5	x 3 = _____ 15																
FACU Species: _____ 125	x 4 = _____ 500																
UPL Species: _____ 5	x 5 = _____ 25																
Column Totals: _____ 135 (A)	_____ 540 (B)																
Prevalence Index = B/A = _____ 4.00																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-9	5YR 3/3	100					LOAM	
9-18	5YR 4/4	100					CLAY LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
---	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Remarks:	

Photos	
<div data-bbox="461 552 1089 1020" data-label="Image"> </div> <div data-bbox="66 1031 636 1064" data-label="Text"> Photo Name: DE1CW329_081613_UPL1NE.jpg </div> <div data-bbox="820 1031 1117 1064" data-label="Text"> Note: DE-1C-W329-UPL1 </div>	

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 53.65 City/County: Delaware Sampling Date: 2013/09/13
Applicant/Owner: Williams State: NY Sampling Point: DE-1C-W338BR-WET1
Investigator(s): RR;KH USGS Quad: Unadilla Section, Township, Range: Sidney
Landform: Drainage Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 3
Subregion: Middle Atlantic Latitude: 42.286111 Longitude: -75.35850 Datum: NAD 1983
Soil Map Unit Name: Ontusia channery silt loam, 3 to 8 percent slopes NWI Classification: Not Mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: <u>PEM</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Pinus strobus</i>	10	YES	FACU
<i>Acer rubrum</i>	10	YES	FAC
Total Cover: 20			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Impatiens capensis</i>	35	YES	FACW
<i>Euthamia graminifolia</i>	20	YES	FAC
<i>Carex lurida</i>	5	NO	OBL
<i>Scirpus atrovirens</i>	5	NO	OBL
<i>Symphotrichum novae-angliae</i>	10	NO	FACW
<i>Solidago gigantea</i>	25	YES	FACW
Total Cover: 100			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

Dominance Test Worksheet: Number of Dominant Species that are OBL, FACW, or FAC: 4 (A) Total Number of Dominant Species Across All Strata: 5 (B) Percent of Dominant Species that are OBL, FACW, or FAC: 80 (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: 10</td> <td>x 1 = 10</td> </tr> <tr> <td>FACW Species: 70</td> <td>x 2 = 140</td> </tr> <tr> <td>FAC Species: 30</td> <td>x 3 = 90</td> </tr> <tr> <td>FACU Species: 10</td> <td>x 4 = 40</td> </tr> <tr> <td>UPL Species: 0</td> <td>x 5 = 0</td> </tr> <tr> <td>Column Totals: 120 (A)</td> <td>280 (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = 2.33</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: 10	x 1 = 10	FACW Species: 70	x 2 = 140	FAC Species: 30	x 3 = 90	FACU Species: 10	x 4 = 40	UPL Species: 0	x 5 = 0	Column Totals: 120 (A)	280 (B)	Prevalence Index = B/A = 2.33	
Total % Cover of:	Multiply by:																
OBL Species: 10	x 1 = 10																
FACW Species: 70	x 2 = 140																
FAC Species: 30	x 3 = 90																
FACU Species: 10	x 4 = 40																
UPL Species: 0	x 5 = 0																
Column Totals: 120 (A)	280 (B)																
Prevalence Index = B/A = 2.33																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-10	10YR 4/2	80	7.5YR 4/6	20	C	M, PL	LOAM	
10-18	10YR 5/3	80	7.5YR 4/6	20	D	M	CLAY LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
--	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks: 	

Photos	
<div data-bbox="461 548 1089 1018" data-label="Image"> </div> <div data-bbox="66 1024 685 1058" data-label="Text"> Photo Name: DE1CW338-BR_091313_WET1SE.jpg </div> <div data-bbox="821 1024 1157 1058" data-label="Text"> Note: DE-1C-W338BR-WET1 </div>	

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 53.65 City/County: Delaware Sampling Date: 2013/09/13
Applicant/Owner: Williams State: NY Sampling Point: DE-1C-W338BR-UPL1
Investigator(s): RR;KH USGS Quad: Unadilla Section, Township, Range: Sidney
Landform: Hillside Local Relief: ☐ Concave ☐ Convex ☒ None Slope (%): 4
Subregion: Middle Atlantic Latitude: 42.286164 Longitude: -75.35860 Datum: NAD 1983
Soil Map Unit Name: Willdin channery silt loam, 8 to 15 percent slopes NWI Classification: Not Mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is the Sampled Area within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Remarks: <u>Upland plot</u>	
Field Wetland Classification:	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☐ Yes ☒ No Depth (inches):

Wetland Hydrology Present? ☐ Yes ☒ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Acer rubrum</i>	30	YES	FAC
<i>Acer saccharum</i>	20	YES	FACU
<i>Pinus strobus</i>	30	YES	FACU
<i>Fraxinus americana</i>	20	YES	FACU
Total Cover: 100			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Crataegus crus-galli</i>	5	YES	FAC
Total Cover: 5			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Rosa multiflora</i>	5	YES	FACU
Total Cover: 5			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Solidago caesia</i>	10	YES	FACU
<i>Fraxinus americana</i>	10	YES	FACU
<i>Potentilla simplex</i>	15	YES	FACU
<i>Fragaria virginiana</i>	10	YES	FACU
<i>Quercus rubra</i>	5	NO	FACU
Total Cover: 50			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

Dominance Test Worksheet: Number of Dominant Species that are OBL, FACW, or FAC: 2 (A) Total Number of Dominant Species Across All Strata: 10 (B) Percent of Dominant Species that are OBL, FACW, or FAC: 20 (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: 0</td> <td>x 1 = 0</td> </tr> <tr> <td>FACW Species: 0</td> <td>x 2 = 0</td> </tr> <tr> <td>FAC Species: 35</td> <td>x 3 = 105</td> </tr> <tr> <td>FACU Species: 125</td> <td>x 4 = 500</td> </tr> <tr> <td>UPL Species: 0</td> <td>x 5 = 0</td> </tr> <tr> <td>Column Totals: 160 (A)</td> <td>605 (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = 3.78</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: 0	x 1 = 0	FACW Species: 0	x 2 = 0	FAC Species: 35	x 3 = 105	FACU Species: 125	x 4 = 500	UPL Species: 0	x 5 = 0	Column Totals: 160 (A)	605 (B)	Prevalence Index = B/A = 3.78	
Total % Cover of:	Multiply by:																
OBL Species: 0	x 1 = 0																
FACW Species: 0	x 2 = 0																
FAC Species: 35	x 3 = 105																
FACU Species: 125	x 4 = 500																
UPL Species: 0	x 5 = 0																
Column Totals: 160 (A)	605 (B)																
Prevalence Index = B/A = 3.78																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-6	10YR 3/3	100					LOAM	
6-18	10YR 4/4	100					LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
---	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Remarks:	

Photos	
	
Photo Name: DE1CW338-BR_091313_UPL1N.jpg	Note: DE-1C-W338BR-UPL1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 92.06 City/County: Delaware Sampling Date: 2013/09/20
Applicant/Owner: Williams State: NY Sampling Point: DE-1C-W344-WET1
Investigator(s): RR;KH USGS Quad: Charlotteville Section, Township, Range: Harpersfield
Landform: Drainage way Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 2
Subregion: Middle Atlantic Latitude: 42.503553 Longitude: -74.72519 Datum: NAD 1983
Soil Map Unit Name: Willdin channery silt loam, 2 to 8 percent slopes NWI Classification: Not Mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: PFO	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Surface Water (A1) | <input checked="" type="checkbox"/> Water Stained Leaves (B9) |
| <input checked="" type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input checked="" type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☒ Yes ☐ No Depth (inches): 8
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Carpinus caroliniana</i>	5	NO	FAC
<i>Fraxinus americana</i>	7	YES	FACU
<i>Acer rubrum</i>	5	NO	FAC
<i>Ulmus rubra</i>	15	YES	FAC
Total Cover: 32			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Carpinus caroliniana</i>	15	YES	FAC
<i>Acer saccharum</i>	2	NO	FACU
Total Cover: 17			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Glyceria melicaria</i>	20	YES	OBL
<i>Persicaria sagittata</i>	5	NO	OBL
<i>Impatiens capensis</i>	20	YES	FACW
<i>Osmunda claytoniana</i>	10	NO	FAC
<i>Onoclea sensibilis</i>	5	NO	FACW
<i>Solidago gigantea</i>	10	NO	FACW
<i>Epilobium coloratum</i>	5	NO	OBL
<i>Symphytotrichum novi-belgii</i>	10	NO	FACW
<i>Carex crinita</i>	15	NO	OBL
Total Cover: 100			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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>5</u> (B) Percent of Dominant Species that are OBL, FACW, or FAC: <u>80</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: <u>45</u></td> <td>x 1 = <u>45</u></td> </tr> <tr> <td>FACW Species: <u>45</u></td> <td>x 2 = <u>90</u></td> </tr> <tr> <td>FAC Species: <u>50</u></td> <td>x 3 = <u>150</u></td> </tr> <tr> <td>FACU Species: <u>9</u></td> <td>x 4 = <u>36</u></td> </tr> <tr> <td>UPL Species: <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>149</u> (A)</td> <td><u>321</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = <u>2.15</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: <u>45</u>	x 1 = <u>45</u>	FACW Species: <u>45</u>	x 2 = <u>90</u>	FAC Species: <u>50</u>	x 3 = <u>150</u>	FACU Species: <u>9</u>	x 4 = <u>36</u>	UPL Species: <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>149</u> (A)	<u>321</u> (B)	Prevalence Index = B/A = <u>2.15</u>	
Total % Cover of:	Multiply by:																
OBL Species: <u>45</u>	x 1 = <u>45</u>																
FACW Species: <u>45</u>	x 2 = <u>90</u>																
FAC Species: <u>50</u>	x 3 = <u>150</u>																
FACU Species: <u>9</u>	x 4 = <u>36</u>																
UPL Species: <u>0</u>	x 5 = <u>0</u>																
Column Totals: <u>149</u> (A)	<u>321</u> (B)																
Prevalence Index = B/A = <u>2.15</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-1	10YR 3/2	100					LOAM	
1-13	5Y 4/1	95	7.5YR 4/6	5	C	PL	SILT LOAM	
13-18	Gley1 4/10Y	90	10YR 4/6	10	C	M	CLAY LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- | | |
|---|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Stratified Layers (A5) | <input checked="" type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sandy Redox (S5) | |
| <input type="checkbox"/> Stripped Matrix (S6) | |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | |

Indicators for Problematic Hydric Soils

- | |
|--|
| <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) |
| <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) |
| <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) |
| <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) |
| <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) |
| <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| <input type="checkbox"/> Red Parent Material (F21) |
| <input type="checkbox"/> Very Shallow Dark Surface (TF12) |
| <input type="checkbox"/> Other (Explain in Remarks) |

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? ☒ **Yes** ☐ **No**

Remarks:

Photos

Photo Name: DE1CW344_092613_WET1S.jpg

Note: DE-1C-W344-WET1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 92.03 City/County: Delaware Sampling Date: 2013/09/20
Applicant/Owner: Williams State: NY Sampling Point: DE-1C-W344-UPL1
Investigator(s): RR;KH USGS Quad: Charlotteville Section, Township, Range: Harpersfield
Landform: side slope Local Relief: ☐ Concave ☒ Convex ☐ None Slope (%): 5
Subregion: Middle Atlantic Latitude: 42.503511 Longitude: -74.72586 Datum: NAD 1983
Soil Map Unit Name: Willdin channery silt loam, 2 to 8 percent slopes NWI Classification: Not Mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is the Sampled Area within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Remarks: <u>Upland plot; Share upland plot with DE-1C-W343</u>	
Field Wetland Classification:	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☐ Yes ☒ No Depth (inches):

Wetland Hydrology Present? ☐ Yes ☒ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Ostrya virginiana</i>	10	NO	FACU
<i>Carpinus caroliniana</i>	15	YES	FAC
<i>Acer saccharum</i>	40	YES	FACU
<i>Acer rubrum</i>	10	NO	FAC
Total Cover: 75			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Carpinus caroliniana</i>	10	YES	FAC
Total Cover: 10			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Carex pennsylvanicum</i>	3	YES	UPL
<i>Dryopteris intermedia</i>	2	YES	FAC
<i>Rubus allegheniensis</i>	3	YES	FACU
Total Cover: 8			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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>6</u> (B) Percent of Dominant Species that are OBL, FACW, or FAC: <u>50</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <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>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC Species: <u>37</u></td> <td>x 3 = <u>111</u></td> </tr> <tr> <td>FACU Species: <u>53</u></td> <td>x 4 = <u>212</u></td> </tr> <tr> <td>UPL Species: <u>3</u></td> <td>x 5 = <u>15</u></td> </tr> <tr> <td>Column Totals: <u>93</u> (A)</td> <td><u>338</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = <u>3.63</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>37</u>	x 3 = <u>111</u>	FACU Species: <u>53</u>	x 4 = <u>212</u>	UPL Species: <u>3</u>	x 5 = <u>15</u>	Column Totals: <u>93</u> (A)	<u>338</u> (B)	Prevalence Index = B/A = <u>3.63</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>37</u>	x 3 = <u>111</u>																
FACU Species: <u>53</u>	x 4 = <u>212</u>																
UPL Species: <u>3</u>	x 5 = <u>15</u>																
Column Totals: <u>93</u> (A)	<u>338</u> (B)																
Prevalence Index = B/A = <u>3.63</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-1	10YR 3/2	100					SILT LOAM	
1-8	10YR 3/3	100					SILT LOAM	
8-18	10YR 4/4	100					SILT LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- | | |
|---|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Stratified Layers (A5) | <input type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sandy Redox (S5) | |
| <input type="checkbox"/> Stripped Matrix (S6) | |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | |

Indicators for Problematic Hydric Soils

- | |
|--|
| <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) |
| <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) |
| <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) |
| <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) |
| <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) |
| <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| <input type="checkbox"/> Red Parent Material (F21) |
| <input type="checkbox"/> Very Shallow Dark Surface (TF12) |
| <input type="checkbox"/> Other (Explain in Remarks) |

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? ☐ Yes ☒ No

Remarks:

Photos

Photo Name: DE1CW344_092013_UPL1SE.jpg

Note: DE-1C-W344-UPL1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 81.39 City/County: Delaware Sampling Date: 2013/09/18
Applicant/Owner: Williams State: NY Sampling Point: DE-1C-W345-WET1
Investigator(s): RR;KH USGS Quad: West Davenport Section, Township, Range: Davenport
Landform: Floodplain Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 0
Subregion: Middle Atlantic Latitude: 42.434399 Longitude: -74.90266 Datum: NAD 1983
Soil Map Unit Name: Tunkhannock gravelly loam, 25 to 50 percent slopes NWI Classification: Not Mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☒ or Hydrology ☐ naturally problematic? ☐ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: <u>Alluvial soils and auger refusal at 4".</u>	
Field Wetland Classification: <u>PSS</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input checked="" type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input checked="" type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☐ Yes ☒ No Depth (inches):

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Tsuga canadensis</i>	25	YES	FACU
<i>Carpinus caroliniana</i>	2	NO	FAC
Total Cover: 27			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Alnus incana</i>	10	YES	FACW
<i>Salix nigra</i>	5	NO	OBL
<i>Fallopia japonica</i>	10	YES	FACU
<i>Robinia pseudoacacia</i>	5	NO	FACU
Total Cover: 30			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Solidago gigantea</i>	25	YES	FACW
<i>Phalaris arundinacea</i>	5	NO	FACW
<i>Symphyotrichum novi-belgii</i>	20	YES	FACW
<i>Carex lurida</i>	10	NO	OBL
<i>Impatiens capensis</i>	10	NO	FACW
<i>Eutrochium maculatum</i>	15	NO	OBL
Total Cover: 85			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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>5</u> (B) Percent of Dominant Species that are OBL, FACW, or FAC: <u>60</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: <u>30</u></td> <td>x 1 = <u>30</u></td> </tr> <tr> <td>FACW Species: <u>70</u></td> <td>x 2 = <u>140</u></td> </tr> <tr> <td>FAC Species: <u>2</u></td> <td>x 3 = <u>6</u></td> </tr> <tr> <td>FACU Species: <u>40</u></td> <td>x 4 = <u>160</u></td> </tr> <tr> <td>UPL Species: <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>142</u> (A)</td> <td><u>336</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = <u>2.37</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: <u>30</u>	x 1 = <u>30</u>	FACW Species: <u>70</u>	x 2 = <u>140</u>	FAC Species: <u>2</u>	x 3 = <u>6</u>	FACU Species: <u>40</u>	x 4 = <u>160</u>	UPL Species: <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>142</u> (A)	<u>336</u> (B)	Prevalence Index = B/A = <u>2.37</u>	
Total % Cover of:	Multiply by:																
OBL Species: <u>30</u>	x 1 = <u>30</u>																
FACW Species: <u>70</u>	x 2 = <u>140</u>																
FAC Species: <u>2</u>	x 3 = <u>6</u>																
FACU Species: <u>40</u>	x 4 = <u>160</u>																
UPL Species: <u>0</u>	x 5 = <u>0</u>																
Column Totals: <u>142</u> (A)	<u>336</u> (B)																
Prevalence Index = B/A = <u>2.37</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-4	10YR 3/3	100				None	SAND	50% Gravel & Rock

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input checked="" type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
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³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks: Alluvial soils. Auger refusal at 4".	

Photos	
<div data-bbox="461 552 1091 1022" data-label="Image"> </div> <div data-bbox="66 1031 1497 1064"> <div>Photo Name: DE1CW345_091813_WET1SW.jpg</div> <div>Note: DE-1C-W345-WET1</div> </div>	

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 81.4 City/County: Delaware Sampling Date: 2013/09/18
Applicant/Owner: Williams State: NY Sampling Point: DE-1C-W345-UPL1
Investigator(s): RR;KH USGS Quad: West Davenport Section, Township, Range: Davenport
Landform: island Local Relief: ☐ Concave ☒ Convex ☐ None Slope (%): 0
Subregion: Middle Atlantic Latitude: 42.434464 Longitude: -74.90254 Datum: NAD 1983
Soil Map Unit Name: Tunkhannock gravelly loam, 25 to 50 percent slopes NWI Classification: Not Mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is the Sampled Area within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Remarks: <u>Upland plot</u>	
Field Wetland Classification:	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☐ Yes ☒ No Depth (inches):

Wetland Hydrology Present? ☐ Yes ☒ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Carpinus caroliniana</i>	3	NO	FAC
<i>Tsuga canadensis</i>	85	YES	FACU
Total Cover: 88			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

Dominance Test Worksheet: Number of Dominant Species that are OBL, FACW, or FAC: _____ 0 (A) Total Number of Dominant Species Across All Strata: _____ 1 (B) Percent of Dominant Species that are OBL, FACW, or FAC: _____ 0 (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: _____ 0</td> <td>x 1 = _____ 0</td> </tr> <tr> <td>FACW Species: _____ 0</td> <td>x 2 = _____ 0</td> </tr> <tr> <td>FAC Species: _____ 3</td> <td>x 3 = _____ 9</td> </tr> <tr> <td>FACU Species: _____ 85</td> <td>x 4 = _____ 340</td> </tr> <tr> <td>UPL Species: _____ 0</td> <td>x 5 = _____ 0</td> </tr> <tr> <td>Column Totals: _____ 88 (A)</td> <td>_____ 349 (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = _____ 3.97</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: _____ 0	x 1 = _____ 0	FACW Species: _____ 0	x 2 = _____ 0	FAC Species: _____ 3	x 3 = _____ 9	FACU Species: _____ 85	x 4 = _____ 340	UPL Species: _____ 0	x 5 = _____ 0	Column Totals: _____ 88 (A)	_____ 349 (B)	Prevalence Index = B/A = _____ 3.97	
Total % Cover of:	Multiply by:																
OBL Species: _____ 0	x 1 = _____ 0																
FACW Species: _____ 0	x 2 = _____ 0																
FAC Species: _____ 3	x 3 = _____ 9																
FACU Species: _____ 85	x 4 = _____ 340																
UPL Species: _____ 0	x 5 = _____ 0																
Column Totals: _____ 88 (A)	_____ 349 (B)																
Prevalence Index = B/A = _____ 3.97																	

Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	<div style="text-align: center; font-size: 1.2em;"> Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No </div>
Remarks:	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-2	10YR 2/2	200					SILT LOAM	
2-8	10YR 3/3	100					SILT LOAM	
8-20	7.5YR 4/4	100					SILT LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- | | |
|---|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Stratified Layers (A5) | <input type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sandy Redox (S5) | |
| <input type="checkbox"/> Stripped Matrix (S6) | |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | |

Indicators for Problematic Hydric Soils

- ☐ 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- ☐ Coast: Prairie Redox (A16) (LRR K, L, R)
- ☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- ☐ Dark Surface (S7) (LRR K, L, M)
- ☐ Polyvalue Below Surface (S8) (LRR K, L)
- ☐ Thin Dark Surface (S9) (LRR K, L)
- ☐ Iron-Manganese Masses (F12) (LRR K, L, R)
- ☐ Piedmont Floodplain Soils (F19) (MLRA 149B)
- ☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- ☐ Red Parent Material (F21)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? ☐ Yes ☒ No

Remarks:

Photos



Photo Name: DE1CW345_091813_UPL1E.jpg

Note: DE-1C-W345-UPL1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 81.64 City/County: Delaware Sampling Date: 2013/09/19
Applicant/Owner: Williams State: NY Sampling Point: DE-1C-W346-WET1
Investigator(s): RR;KH USGS Quad: Davenport Section, Township, Range: Davenport
Landform: Depression Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 0
Subregion: Middle Atlantic Latitude: 42.446034 Longitude: -74.86777 Datum: NAD 1983
Soil Map Unit Name: Mongaup channery loam, 8 to 15 percent slopes NWI Classification: Not Mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: <u>PEM</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Surface Water (A1) | <input checked="" type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Betula alleghaniensis</i>	5	YES	FAC
<i>Acer rubrum</i>	10	YES	FAC
Total Cover: 15			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Solidago gigantea</i>	10	NO	FACW
<i>Impatiens capensis</i>	10	NO	FACW
<i>Onoclea sensibilis</i>	30	YES	FACW
<i>Spiraea alba</i>	5	NO	FACW
<i>Rubus idaeus</i>	2	NO	FACU
<i>Galeopsis tetrahit</i>	5	NO	FACU
<i>Carex crinita</i>	15	NO	OBL
<i>Dryopteris sp</i>	10	NO	NONE
<i>Juncus effusus</i>	10	NO	OBL
<i>Persicaria sagittata</i>	3	NO	OBL
Total Cover: 100			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: <u>28</u></td> <td>x 1 = <u>28</u></td> </tr> <tr> <td>FACW Species: <u>55</u></td> <td>x 2 = <u>110</u></td> </tr> <tr> <td>FAC Species: <u>15</u></td> <td>x 3 = <u>45</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>105</u> (A)</td> <td><u>211</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.01</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: <u>28</u>	x 1 = <u>28</u>	FACW Species: <u>55</u>	x 2 = <u>110</u>	FAC Species: <u>15</u>	x 3 = <u>45</u>	FACU Species: <u>7</u>	x 4 = <u>28</u>	UPL Species: <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>105</u> (A)	<u>211</u> (B)	Prevalence Index = B/A = <u>2.01</u>	
Total % Cover of:	Multiply by:																
OBL Species: <u>28</u>	x 1 = <u>28</u>																
FACW Species: <u>55</u>	x 2 = <u>110</u>																
FAC Species: <u>15</u>	x 3 = <u>45</u>																
FACU Species: <u>7</u>	x 4 = <u>28</u>																
UPL Species: <u>0</u>	x 5 = <u>0</u>																
Column Totals: <u>105</u> (A)	<u>211</u> (B)																
Prevalence Index = B/A = <u>2.01</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-12	10YR 4/2	95	10YR 4/6	5	C	PL	SILT LOAM	
12-18	10YR 5/4	85	10YR 5/6	15	C	M	LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
--	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks: 	

Photos	
<div data-bbox="461 550 1089 1020" data-label="Image"> </div> <div data-bbox="66 1026 628 1058" data-label="Text"> <p>Photo Name: DE1CW346_091913_WET1N.jpg</p> </div> <div data-bbox="821 1026 1125 1058" data-label="Text"> <p>Note: DE-1C-W346-WET1</p> </div>	

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 81.64 City/County: Delaware Sampling Date: 2013/09/19
Applicant/Owner: Williams State: NY Sampling Point: DE-1C-W346-UPL1
Investigator(s): RR;KH USGS Quad: Davenport Section, Township, Range: Davenport
Landform: Plateau Local Relief: ☐ Concave ☐ Convex ☒ None Slope (%): 0
Subregion: Middle Atlantic Latitude: 42.446165 Longitude: -74.86778 Datum: NAD 1983
Soil Map Unit Name: Mongaup channery loam, 8 to 15 percent slopes NWI Classification: Not Mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is the Sampled Area within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Remarks: <u>Upland plot</u>	
Field Wetland Classification: <u>OTHER</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☐ Yes ☒ No Depth (inches):

Wetland Hydrology Present? ☐ Yes ☒ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Tsuga canadensis</i>	50	YES	FACU
<i>Betula papyrifera</i>	5	NO	FACU
<i>Acer rubrum</i>	20	YES	FAC
Total Cover: 75			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Fagus grandifolia</i>	5	YES	FACU
Total Cover: 5			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Maianthemum canadense</i>	5	YES	FACU
<i>Mitchella repens</i>	3	NO	FACU
Total Cover: 8			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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>4</u> (B) Percent of Dominant Species that are OBL, FACW, or FAC: <u>25</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <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>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>68</u></td> <td>x 4 = <u>272</u></td> </tr> <tr> <td>UPL Species: <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>88</u> (A)</td> <td><u>332</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = <u>3.77</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>20</u>	x 3 = <u>60</u>	FACU Species: <u>68</u>	x 4 = <u>272</u>	UPL Species: <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>88</u> (A)	<u>332</u> (B)	Prevalence Index = B/A = <u>3.77</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>20</u>	x 3 = <u>60</u>																
FACU Species: <u>68</u>	x 4 = <u>272</u>																
UPL Species: <u>0</u>	x 5 = <u>0</u>																
Column Totals: <u>88</u> (A)	<u>332</u> (B)																
Prevalence Index = B/A = <u>3.77</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-1	7.5YR 2.5/2	100					ORGANIC	
1-5	7.5YR 4/4	100					LOAM	
5-16	7.5YR 5/6	100					SILT LOAM	
16-18	7.5YR 5/4						SILT LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- | | |
|---|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Stratified Layers (A5) | <input type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sandy Redox (S5) | |
| <input type="checkbox"/> Stripped Matrix (S6) | |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | |

Indicators for Problematic Hydric Soils

- | |
|--|
| <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) |
| <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) |
| <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) |
| <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) |
| <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) |
| <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| <input type="checkbox"/> Red Parent Material (F21) |
| <input type="checkbox"/> Very Shallow Dark Surface (TF12) |
| <input type="checkbox"/> Other (Explain in Remarks) |

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? ☐ Yes ☒ No

Remarks:

Photos

Photo Name: DE1CW346_091913_UPL1NE.jpg

Note: DE-1C-W346-UPL1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 81.48 City/County: Delaware Sampling Date: 2013/09/25
Applicant/Owner: Williams State: NY Sampling Point: DE-1C-W350-WET1
Investigator(s): RR;KH USGS Quad: West Davenport Section, Township, Range: Davenport
Landform: depression Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 3
Subregion: Middle Atlantic Latitude: 42.434861 Longitude: -74.90090 Datum: NAD 1983
Soil Map Unit Name: Maplecrest gravelly silt loam, 8 to 15 percent slopes NWI Classification: Not Mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Use DE-1C-W351-UPL1 as representative upland plot.	
Field Wetland Classification: PEM	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Onoclea sensibilis</i>	30	YES	FACW
<i>Carex vulpinoidea</i>	20	YES	OBL
<i>Euthamia graminifolia</i>	10	NO	FAC
<i>Solidago rugosa</i>	10	NO	FAC
<i>Juncus effusus</i>	10	NO	OBL
<i>Ranunculus bulbosus</i>	5	NO	FACW
<i>Scirpus atrovirens</i>	5	NO	OBL
<i>Carex lurida</i>	10	NO	OBL
Total Cover: 100			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: <u>45</u></td> <td>x 1 = <u>45</u></td> </tr> <tr> <td>FACW Species: <u>35</u></td> <td>x 2 = <u>70</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>175</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = <u>1.75</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: <u>45</u>	x 1 = <u>45</u>	FACW Species: <u>35</u>	x 2 = <u>70</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>175</u> (B)	Prevalence Index = B/A = <u>1.75</u>	
Total % Cover of:	Multiply by:																
OBL Species: <u>45</u>	x 1 = <u>45</u>																
FACW Species: <u>35</u>	x 2 = <u>70</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>175</u> (B)																
Prevalence Index = B/A = <u>1.75</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-4	7.5YR 4/2	98	7.5YR 4/6	2	C	PL	LOAM	
4-12	7.5YR 5/2	95	7.5YR 5/6	5	C	M,PL	LOAM	
12-18	7.5YR 5/2	95	7.5YR 5/6	5	C	M,PL	SANDY LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- | | |
|---|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Stratified Layers (A5) | <input checked="" type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sandy Redox (S5) | |
| <input type="checkbox"/> Stripped Matrix (S6) | |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | |

Indicators for Problematic Hydric Soils

- | |
|--|
| <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) |
| <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) |
| <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) |
| <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) |
| <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) |
| <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| <input type="checkbox"/> Red Parent Material (F21) |
| <input type="checkbox"/> Very Shallow Dark Surface (TF12) |
| <input type="checkbox"/> Other (Explain in Remarks) |

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? ☒ **Yes** ☐ **No**

Remarks:

Photos

Photo Name: DE1CW350_092513_WET1W.jpg

Note: DE-1C-W350-WET1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 81.47 City/County: Delaware Sampling Date: 2013/09/25
Applicant/Owner: Williams State: NY Sampling Point: DE-1C-W351-WET1
Investigator(s): RR;KH USGS Quad: West Davenport Section, Township, Range: Davenport
Landform: depression Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 1
Subregion: Middle Atlantic Latitude: 42.434721 Longitude: -74.90107 Datum: NAD 1983
Soil Map Unit Name: Maplecrest gravelly silt loam, 8 to 15 percent slopes NWI Classification: Not Mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: <u>PEM</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☐ Yes ☒ No Depth (inches):

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Juncus effusus</i>	30	YES	OBL
<i>Euthamia graminifolia</i>	25	YES	FAC
<i>Solidago rugosa</i>	15	NO	FAC
<i>Agrostis gigantea</i>	15	NO	FACW
<i>Carex vulpinoidea</i>	10	NO	OBL
<i>Persicaria sagittata</i>	2	NO	OBL
<i>Epilobium coloratum</i>	3	NO	OBL
Total Cover: 100			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: <u>45</u></td> <td>x 1 = <u>45</u></td> </tr> <tr> <td>FACW Species: <u>15</u></td> <td>x 2 = <u>30</u></td> </tr> <tr> <td>FAC Species: <u>40</u></td> <td>x 3 = <u>120</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>195</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = <u>1.95</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: <u>45</u>	x 1 = <u>45</u>	FACW Species: <u>15</u>	x 2 = <u>30</u>	FAC Species: <u>40</u>	x 3 = <u>120</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>195</u> (B)	Prevalence Index = B/A = <u>1.95</u>	
Total % Cover of:	Multiply by:																
OBL Species: <u>45</u>	x 1 = <u>45</u>																
FACW Species: <u>15</u>	x 2 = <u>30</u>																
FAC Species: <u>40</u>	x 3 = <u>120</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>195</u> (B)																
Prevalence Index = B/A = <u>1.95</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-12	7.5YR 4/2	98	7.5YR 4/6	2	C	PL	LOAM	
12-18	7.5YR 4/3	80	7.5YR 5/4	20	C	M	LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
--	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks: 	

Photos	
<div data-bbox="461 550 1089 1020" data-label="Image"> </div> <div data-bbox="66 1024 1485 1062"> <div>Photo Name: DE1CW351_092513_WET1NE.jpg</div> <div>Note: DE-1C-W351-WET1</div> </div>	

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 81.48 City/County: Delaware Sampling Date: 2013/09/25
Applicant/Owner: Williams State: NY Sampling Point: DE-1C-W351-UPL1
Investigator(s): RR;KH USGS Quad: West Davenport Section, Township, Range: Davenport
Landform: Side slope Local Relief: ☐ Concave ☒ Convex ☐ None Slope (%): 5
Subregion: Middle Atlantic Latitude: 42.434805 Longitude: -74.90104 Datum: NAD 1983
Soil Map Unit Name: Maplecrest gravelly silt loam, 8 to 15 percent slopes NWI Classification: Not Mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is the Sampled Area within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Remarks: <u>Upland plot</u>	
Field Wetland Classification:	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☐ Yes ☒ No Depth (inches):

Wetland Hydrology Present? ☐ Yes ☒ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Solidago canadensis</i>	55	YES	FACU
<i>Solidago rugosa</i>	10	NO	FAC
<i>Phleum pratense</i>	10	NO	FACU
<i>Fragaria virginiana</i>	5	NO	FACU
<i>Galium mollugo</i>	10	NO	FACW
<i>Dactylis glomerata</i>	5	NO	FACU
<i>Satureja vulgaris</i>	5	NO	UPL
Total Cover: 100			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <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>10</u></td> <td>x 2 = <u>20</u></td> </tr> <tr> <td>FAC Species: <u>10</u></td> <td>x 3 = <u>30</u></td> </tr> <tr> <td>FACU Species: <u>75</u></td> <td>x 4 = <u>300</u></td> </tr> <tr> <td>UPL Species: <u>5</u></td> <td>x 5 = <u>25</u></td> </tr> <tr> <td>Column Totals: <u>100</u> (A)</td> <td><u>375</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = <u>3.75</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: <u>0</u>	x 1 = <u>0</u>	FACW Species: <u>10</u>	x 2 = <u>20</u>	FAC Species: <u>10</u>	x 3 = <u>30</u>	FACU Species: <u>75</u>	x 4 = <u>300</u>	UPL Species: <u>5</u>	x 5 = <u>25</u>	Column Totals: <u>100</u> (A)	<u>375</u> (B)	Prevalence Index = B/A = <u>3.75</u>	
Total % Cover of:	Multiply by:																
OBL Species: <u>0</u>	x 1 = <u>0</u>																
FACW Species: <u>10</u>	x 2 = <u>20</u>																
FAC Species: <u>10</u>	x 3 = <u>30</u>																
FACU Species: <u>75</u>	x 4 = <u>300</u>																
UPL Species: <u>5</u>	x 5 = <u>25</u>																
Column Totals: <u>100</u> (A)	<u>375</u> (B)																
Prevalence Index = B/A = <u>3.75</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-2	10YR 3/3	100					LOAM	
2-14	10YR 3/4	100					LOAM	
14-18	10YR 4/4	100					LOAM	W/30% gravel

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- | | |
|---|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Stratified Layers (A5) | <input type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sandy Redox (S5) | |
| <input type="checkbox"/> Stripped Matrix (S6) | |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | |

Indicators for Problematic Hydric Soils

- | |
|--|
| <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) |
| <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) |
| <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) |
| <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) |
| <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) |
| <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| <input type="checkbox"/> Red Parent Material (F21) |
| <input type="checkbox"/> Very Shallow Dark Surface (TF12) |
| <input type="checkbox"/> Other (Explain in Remarks) |

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? ☐ Yes ☒ No

Remarks:

Photos

Photo Name: DE1CW351_092513_UPL1NW.jpg

Note: DE-1C-W351-UPL1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 81.7 City/County: Deleware Sampling Date: 2013/10/15
Applicant/Owner: Williams State: NY Sampling Point: DE-1C-W353-WET1
Investigator(s): RR;KH USGS Quad: West Davenport Section, Township, Range: Davenport
Landform: Depression Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 0
Subregion: Middle Atlantic Latitude: 42.435130 Longitude: -74.90158 Datum: NAD 1988
Soil Map Unit Name: Maplecrest gravelly silt loam, 8 to 15 percent slopes NWI Classification: Not Mapped

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? ☐ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: <u>disturbed veg-recently mowed field</u>	
Field Wetland Classification: <u>PEM</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Acorus americanus</i>	60	YES	OBL
<i>Juncus effusus</i>	20	YES	OBL
<i>Euthamia graminifolia</i>	5	NO	FAC
<i>Solidago gigantea</i>	15	NO	FACW
Total Cover: 100			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: <u>80</u></td> <td>x 1 = <u>80</u></td> </tr> <tr> <td>FACW Species: <u>15</u></td> <td>x 2 = <u>30</u></td> </tr> <tr> <td>FAC Species: <u>5</u></td> <td>x 3 = <u>15</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>125</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = <u>1.25</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: <u>80</u>	x 1 = <u>80</u>	FACW Species: <u>15</u>	x 2 = <u>30</u>	FAC Species: <u>5</u>	x 3 = <u>15</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>125</u> (B)	Prevalence Index = B/A = <u>1.25</u>	
Total % Cover of:	Multiply by:																
OBL Species: <u>80</u>	x 1 = <u>80</u>																
FACW Species: <u>15</u>	x 2 = <u>30</u>																
FAC Species: <u>5</u>	x 3 = <u>15</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>125</u> (B)																
Prevalence Index = B/A = <u>1.25</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-1	10YR 3/2	100					LOAM	
1-12	10YR 4/2	90	7.5YR 4/6	10	C	PL	LOAM	
12-18	10YR 4/2	97	7.5YR 4/6	3	C	PL	CLAY LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- | | |
|---|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Stratified Layers (A5) | <input checked="" type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sandy Redox (S5) | |
| <input type="checkbox"/> Stripped Matrix (S6) | |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | |

Indicators for Problematic Hydric Soils

- | |
|--|
| <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) |
| <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) |
| <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) |
| <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) |
| <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) |
| <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| <input type="checkbox"/> Red Parent Material (F21) |
| <input type="checkbox"/> Very Shallow Dark Surface (TF12) |
| <input type="checkbox"/> Other (Explain in Remarks) |

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? ☒ **Yes** ☐ **No**

Remarks:

Photos

Photo Name: DE1CW353_101513_WET1SE.jpg

Note: DE-1C-W353-WET1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 81.7 City/County: Deleware Sampling Date: 2013/10/15
Applicant/Owner: Williams State: NY Sampling Point: DE-1C-W353-UPL1
Investigator(s): RR;KH USGS Quad: West Davenport Section, Township, Range: Davenport
Landform: hillslope Local Relief: ☐ Concave ☐ Convex ☒ None Slope (%): 4
Subregion: Middle Atlantic Latitude: 42.435041 Longitude: -74.90144 Datum: NAD 1988
Soil Map Unit Name: Maplecrest gravelly silt loam, 8 to 15 percent slopes NWI Classification: Not Mapped

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? ☐ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is the Sampled Area within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Remarks: <u>Upland plot</u>	
Field Wetland Classification:	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☐ Yes ☒ No Depth (inches):

Wetland Hydrology Present? ☐ Yes ☒ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Phleum pratense</i>	20	YES	FACU
<i>Fragaria virginiana</i>	5	NO	FACU
<i>Galium mollugo</i>	5	NO	UPL
<i>Satureja vulgaris</i>	5	NO	UPL
<i>Solidago canadensis</i>	20	YES	FACU
<i>Unidentified species</i>	45	YES	NONE
Total Cover: 100			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

Dominance Test Worksheet: Number of Dominant Species that are OBL, FACW, or FAC: _____ 0 (A) Total Number of Dominant Species Across All Strata: _____ 3 (B) Percent of Dominant Species that are OBL, FACW, or FAC: _____ 0 (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: _____ 0</td> <td>x 1 = _____ 0</td> </tr> <tr> <td>FACW Species: _____ 0</td> <td>x 2 = _____ 0</td> </tr> <tr> <td>FAC Species: _____ 0</td> <td>x 3 = _____ 0</td> </tr> <tr> <td>FACU Species: _____ 45</td> <td>x 4 = _____ 180</td> </tr> <tr> <td>UPL Species: _____ 10</td> <td>x 5 = _____ 50</td> </tr> <tr> <td>Column Totals: _____ 55 (A)</td> <td>_____ 230 (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = _____ 4.18</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: _____ 0	x 1 = _____ 0	FACW Species: _____ 0	x 2 = _____ 0	FAC Species: _____ 0	x 3 = _____ 0	FACU Species: _____ 45	x 4 = _____ 180	UPL Species: _____ 10	x 5 = _____ 50	Column Totals: _____ 55 (A)	_____ 230 (B)	Prevalence Index = B/A = _____ 4.18	
Total % Cover of:	Multiply by:																
OBL Species: _____ 0	x 1 = _____ 0																
FACW Species: _____ 0	x 2 = _____ 0																
FAC Species: _____ 0	x 3 = _____ 0																
FACU Species: _____ 45	x 4 = _____ 180																
UPL Species: _____ 10	x 5 = _____ 50																
Column Totals: _____ 55 (A)	_____ 230 (B)																
Prevalence Index = B/A = _____ 4.18																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-6	10YR 3/3	100				None	LOAM	
6=18	10YR 4/3	100				None	LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
---	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Remarks:	

Photos	
<div data-bbox="461 554 1089 1020" data-label="Image"> </div> <div data-bbox="66 1031 618 1064" data-label="Text"> Photo Name: DE1CW353_101513_UPL1E.jpg </div> <div data-bbox="820 1031 1115 1064" data-label="Text"> Note: DE-1C-W353-UPL1 </div>	

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 81.6 City/County: Deleware Sampling Date: 2013/10/15
Applicant/Owner: Williams State: NY Sampling Point: DE-1C-W354-WET1
Investigator(s): RR;KH USGS Quad: West Davenport Section, Township, Range: Davenport
Landform: hillside Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 6
Subregion: Middle Atlantic Latitude: 42.433864 Longitude: -74.90432 Datum: NAD 1988
Soil Map Unit Name: Lackawanna and Bath soils, 15 to 35 percent slopes, very stony NWI Classification: Not Mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: <u>PFO</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input checked="" type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Acer saccharum</i>	50	YES	FACU
<i>Betula alleghaniensis</i>	15	YES	FAC
Total Cover: 65			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Carex crinita</i>	80	YES	OBL
<i>Dryopteris intermedia</i>	5	NO	FAC
<i>Impatiens capensis</i>	5	NO	FACW
<i>Tiarella cordifolia</i>	10	NO	FACU
Total Cover: 100			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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>67</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: <u>80</u></td> <td>x 1 = <u>80</u></td> </tr> <tr> <td>FACW Species: <u>5</u></td> <td>x 2 = <u>10</u></td> </tr> <tr> <td>FAC Species: <u>20</u></td> <td>x 3 = <u>60</u></td> </tr> <tr> <td>FACU Species: <u>60</u></td> <td>x 4 = <u>240</u></td> </tr> <tr> <td>UPL Species: <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>165</u> (A)</td> <td><u>390</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = <u>2.36</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: <u>80</u>	x 1 = <u>80</u>	FACW Species: <u>5</u>	x 2 = <u>10</u>	FAC Species: <u>20</u>	x 3 = <u>60</u>	FACU Species: <u>60</u>	x 4 = <u>240</u>	UPL Species: <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>165</u> (A)	<u>390</u> (B)	Prevalence Index = B/A = <u>2.36</u>	
Total % Cover of:	Multiply by:																
OBL Species: <u>80</u>	x 1 = <u>80</u>																
FACW Species: <u>5</u>	x 2 = <u>10</u>																
FAC Species: <u>20</u>	x 3 = <u>60</u>																
FACU Species: <u>60</u>	x 4 = <u>240</u>																
UPL Species: <u>0</u>	x 5 = <u>0</u>																
Column Totals: <u>165</u> (A)	<u>390</u> (B)																
Prevalence Index = B/A = <u>2.36</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) <small>¹Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.</small>	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-1	10YR 2/2	100				None	ORGANIC	W/Organic material
1-4	10YR 3/2	100				None	SANDY LOAM	
4-18	Gley1 4/5GY	90	5YR 4/2	10	D	M	SANDY CLAY LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- | | |
|---|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input checked="" type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Stratified Layers (A5) | <input type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sandy Redox (S5) | |
| <input type="checkbox"/> Stripped Matrix (S6) | |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | |

Indicators for Problematic Hydric Soils

- | |
|--|
| <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) |
| <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) |
| <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) |
| <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) |
| <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) |
| <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| <input type="checkbox"/> Red Parent Material (F21) |
| <input type="checkbox"/> Very Shallow Dark Surface (TF12) |
| <input type="checkbox"/> Other (Explain in Remarks) |

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? ☒ **Yes** ☐ **No**

Remarks:

Photos

Photo Name: DE1CW354_101513_WET1SW.jpg

Note: DE-1C-W354-WET1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 81.6 City/County: Deleware Sampling Date: 2013/10/15
Applicant/Owner: Williams State: NY Sampling Point: DE-1C-W354-UPL1
Investigator(s): RR;KH USGS Quad: West Davenport Section, Township, Range: Davenport
Landform: Hillside Local Relief: ☐ Concave ☐ Convex ☒ None Slope (%): 8
Subregion: Middle Atlantic Latitude: 42.433854 Longitude: -74.90424 Datum: NAD 1988
Soil Map Unit Name: Lackawanna and Bath soils, 15 to 35 percent slopes, very stony NWI Classification: Not Mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is the Sampled Area within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Remarks: <u>Upland plot</u>	
Field Wetland Classification:	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☐ Yes ☒ No Depth (inches):

Wetland Hydrology Present? ☐ Yes ☒ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Acer saccharum</i>	65	YES	FACU
<i>Tilia americana</i>	15	NO	FACU
<i>Betula alleghaniensis</i>	5	NO	FAC
Total Cover: 85			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Fagus grandifolia</i>	5	YES	FACU
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Dryopteris intermedia</i>	5	YES	FAC
<i>Carex pennsylvanicum</i>	3	YES	UPL
<i>Tiarella cordifolia</i>	4	YES	FACU
Total Cover: 12			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <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>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC Species: <u>10</u></td> <td>x 3 = <u>30</u></td> </tr> <tr> <td>FACU Species: <u>84</u></td> <td>x 4 = <u>336</u></td> </tr> <tr> <td>UPL Species: <u>3</u></td> <td>x 5 = <u>15</u></td> </tr> <tr> <td>Column Totals: <u>97</u> (A)</td> <td><u>381</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = <u>3.93</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>10</u>	x 3 = <u>30</u>	FACU Species: <u>84</u>	x 4 = <u>336</u>	UPL Species: <u>3</u>	x 5 = <u>15</u>	Column Totals: <u>97</u> (A)	<u>381</u> (B)	Prevalence Index = B/A = <u>3.93</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>10</u>	x 3 = <u>30</u>																
FACU Species: <u>84</u>	x 4 = <u>336</u>																
UPL Species: <u>3</u>	x 5 = <u>15</u>																
Column Totals: <u>97</u> (A)	<u>381</u> (B)																
Prevalence Index = B/A = <u>3.93</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-3	10YR 3/3	100				None	LOAM	Refusal @16"
3-12	7.5YR 3/4	100				None	LOAM	
12-16	7.5YR 4/4	100				None	LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- | | |
|---|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Stratified Layers (A5) | <input type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sandy Redox (S5) | |
| <input type="checkbox"/> Stripped Matrix (S6) | |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | |

Indicators for Problematic Hydric Soils

- | |
|--|
| <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) |
| <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) |
| <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) |
| <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) |
| <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) |
| <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| <input type="checkbox"/> Red Parent Material (F21) |
| <input type="checkbox"/> Very Shallow Dark Surface (TF12) |
| <input type="checkbox"/> Other (Explain in Remarks) |

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? ☐ Yes ☒ No

Remarks:

Photos

Photo Name: DE1CW354_101513_UPL1W.jpg

Note: DE-1C-W354-UPL1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 65.25 City/County: Delaware Sampling Date: 2013/12/12
Applicant/Owner: Williams State: NY Sampling Point: DE-1C-W363-WET1
Investigator(s): RR,PL;KH USGS Quad: Otego Section, Township, Range: Franklin
Landform: Hillside Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 4
Subregion: Middle Atlantic Latitude: 42.375772 Longitude: -75.14748 Datum: NAD 1983
Soil Map Unit Name: Morris and Volusia soils, 2 to 10 percent slopes, very stony NWI Classification: Not Mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: <u>PFO</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input checked="" type="checkbox"/> Surface Water (A1) | <input checked="" type="checkbox"/> Water Stained Leaves (B9) |
| <input checked="" type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☒ Yes ☐ No Depth (inches): .5
Water Table Present: ☒ Yes ☐ No Depth (inches): 0
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Acer rubrum</i>	30	YES	FAC
<i>Pinus strobus</i>	5	NO	FACU
Total Cover: 35			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Crataegus crus-galli</i>	5	NO	FAC
<i>Spiraea alba</i>	5	NO	FACW
<i>Lyonia ligustrina</i>	30	YES	FACW
Total Cover: 40			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Onoclea sensibilis</i>	15	YES	FACW
<i>Euthamia graminifolia</i>	5	YES	FAC
Total Cover: 20			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <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>50</u></td> <td>x 2 = <u>100</u></td> </tr> <tr> <td>FAC Species: <u>40</u></td> <td>x 3 = <u>120</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>95</u> (A)</td> <td><u>240</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = <u>2.53</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: <u>0</u>	x 1 = <u>0</u>	FACW Species: <u>50</u>	x 2 = <u>100</u>	FAC Species: <u>40</u>	x 3 = <u>120</u>	FACU Species: <u>5</u>	x 4 = <u>20</u>	UPL Species: <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>95</u> (A)	<u>240</u> (B)	Prevalence Index = B/A = <u>2.53</u>	
Total % Cover of:	Multiply by:																
OBL Species: <u>0</u>	x 1 = <u>0</u>																
FACW Species: <u>50</u>	x 2 = <u>100</u>																
FAC Species: <u>40</u>	x 3 = <u>120</u>																
FACU Species: <u>5</u>	x 4 = <u>20</u>																
UPL Species: <u>0</u>	x 5 = <u>0</u>																
Column Totals: <u>95</u> (A)	<u>240</u> (B)																
Prevalence Index = B/A = <u>2.53</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) <small>¹Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.</small>	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-4	7.5YR 4/2	100					SILT LOAM	
4-14	7.5YR 4/2	95	7.5YR 4/6	5	C	PL	SILT LOAM	
14-18	7.5YR 5/2	85	7.5YR 5/6	15	C	M	FINE SANDY LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- | | |
|---|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Stratified Layers (A5) | <input checked="" type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sandy Redox (S5) | |
| <input type="checkbox"/> Stripped Matrix (S6) | |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | |

Indicators for Problematic Hydric Soils

- | |
|--|
| <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) |
| <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) |
| <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) |
| <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) |
| <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) |
| <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| <input type="checkbox"/> Red Parent Material (F21) |
| <input type="checkbox"/> Very Shallow Dark Surface (TF12) |
| <input type="checkbox"/> Other (Explain in Remarks) |

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? ☒ **Yes** ☐ **No**

Remarks:

Photos

Photo Name: DE1CW363_121213_WET1N.jpg

Note: DE-1C-W363-WET1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 65.06 City/County: Delaware Sampling Date: 2013/12/12
Applicant/Owner: Williams State: NY Sampling Point: DE-1C-W363-WET2
Investigator(s): RR;PL;KH USGS Quad: Otego Section, Township, Range: Franklin
Landform: Drainageway/toe of slope Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 3
Subregion: Middle Atlantic Latitude: 42.375120 Longitude: -75.15111 Datum: NAD 1983
Soil Map Unit Name: Morris flaggy silt loam, 0 to 3 percent slopes NWI Classification: Not Mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: PSS	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input checked="" type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input checked="" type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input checked="" type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☒ Yes ☐ No Depth (inches): 0
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Acer rubrum</i>	5	YES	FAC
Total Cover: 5			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Spiraea alba</i>	30	YES	FACW
<i>Salix sp</i>	30	YES	FACW
Total Cover: 60			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Juncus effusus</i>	5	NO	OBL
<i>Epilobium coloratum</i>	20	YES	OBL
<i>Carex lurida</i>	5	NO	OBL
<i>Carex crinita</i>	20	YES	OBL
<i>Carex scoparia</i>	20	YES	FACW
<i>Thelypteris palustris</i>	5	NO	FACW
<i>Glyceria canadensis</i>	10	NO	OBL
<i>Scirpus cyperinus</i>	10	NO	OBL
Total Cover: 95			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

Dominance Test Worksheet: Number of Dominant Species that are OBL, FACW, or FAC: <u>6</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species that are OBL, FACW, or FAC: <u>100</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: <u>70</u></td> <td>x 1 = <u>70</u></td> </tr> <tr> <td>FACW Species: <u>85</u></td> <td>x 2 = <u>170</u></td> </tr> <tr> <td>FAC Species: <u>5</u></td> <td>x 3 = <u>15</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>160</u> (A)</td> <td><u>255</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = <u>1.59</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: <u>70</u>	x 1 = <u>70</u>	FACW Species: <u>85</u>	x 2 = <u>170</u>	FAC Species: <u>5</u>	x 3 = <u>15</u>	FACU Species: <u>0</u>	x 4 = <u>0</u>	UPL Species: <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>160</u> (A)	<u>255</u> (B)	Prevalence Index = B/A = <u>1.59</u>	
Total % Cover of:	Multiply by:																
OBL Species: <u>70</u>	x 1 = <u>70</u>																
FACW Species: <u>85</u>	x 2 = <u>170</u>																
FAC Species: <u>5</u>	x 3 = <u>15</u>																
FACU Species: <u>0</u>	x 4 = <u>0</u>																
UPL Species: <u>0</u>	x 5 = <u>0</u>																
Column Totals: <u>160</u> (A)	<u>255</u> (B)																
Prevalence Index = B/A = <u>1.59</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-1	10YR 2/2	100					ORGANIC	
1-3	10YR 4/1	100					FINE SANDY LOAM	
3-12	10YR 4/1	96	Gley1 4/10GY	2	C	M	FINE SANDY LOAM	7.5YR 4/6 (2%) C, PL

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- | | |
|---|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Stratified Layers (A5) | <input checked="" type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sandy Redox (S5) | |
| <input type="checkbox"/> Stripped Matrix (S6) | |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | |

Indicators for Problematic Hydric Soils

- | |
|--|
| <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) |
| <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) |
| <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) |
| <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) |
| <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) |
| <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| <input type="checkbox"/> Red Parent Material (F21) |
| <input type="checkbox"/> Very Shallow Dark Surface (TF12) |
| <input type="checkbox"/> Other (Explain in Remarks) |

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? ☒ **Yes** ☐ **No**

Remarks:

Photos

Photo Name: DE1CW363_121213_WET2NW.jpg

Note: DE-1C-W363-WET2

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 64.99 City/County: Delaware Sampling Date: 2013/12/12
Applicant/Owner: Williams State: NY Sampling Point: DE-1C-W363-WET3
Investigator(s): RR;PL;KH USGS Quad: Franklin Section, Township, Range: Franklin
Landform: Plateau Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 1
Subregion: Middle Atlantic Latitude: 42.374695 Longitude: -75.15243 Datum: NAD 1983
Soil Map Unit Name: Morris flaggy silt loam, 0 to 3 percent slopes NWI Classification: Not Mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: <u>PEM</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input checked="" type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☒ Yes ☐ No Depth (inches): 0
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Epilobium coloratum</i>	5	NO	OBL
<i>Phleum pratense</i>	5	NO	FACU
<i>Carex vulpinoidea</i>	20	YES	OBL
<i>Symphoricarpos sp</i>	10	NO	NONE
<i>Onoclea sensibilis</i>	10	NO	FACW
<i>Juncus effusus</i>	30	YES	OBL
<i>Carex scoparia</i>	20	YES	FACW
Total Cover: 100			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: <u>55</u></td> <td>x 1 = <u>55</u></td> </tr> <tr> <td>FACW Species: <u>30</u></td> <td>x 2 = <u>60</u></td> </tr> <tr> <td>FAC Species: <u>0</u></td> <td>x 3 = <u>0</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>90</u> (A)</td> <td><u>135</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = <u>1.50</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: <u>55</u>	x 1 = <u>55</u>	FACW Species: <u>30</u>	x 2 = <u>60</u>	FAC Species: <u>0</u>	x 3 = <u>0</u>	FACU Species: <u>5</u>	x 4 = <u>20</u>	UPL Species: <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>90</u> (A)	<u>135</u> (B)	Prevalence Index = B/A = <u>1.50</u>	
Total % Cover of:	Multiply by:																
OBL Species: <u>55</u>	x 1 = <u>55</u>																
FACW Species: <u>30</u>	x 2 = <u>60</u>																
FAC Species: <u>0</u>	x 3 = <u>0</u>																
FACU Species: <u>5</u>	x 4 = <u>20</u>																
UPL Species: <u>0</u>	x 5 = <u>0</u>																
Column Totals: <u>90</u> (A)	<u>135</u> (B)																
Prevalence Index = B/A = <u>1.50</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-1	5YR 3/2	100					ORGANIC	
1-5	7.5YR 4/2	95	7.5YR 4/6	5	C	PL	FINE SANDY LOAM	
5-18	7.5YR 4/2	80	7.5YR 4/6	20	C	M,PL	FINE SANDY LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- | | |
|---|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Stratified Layers (A5) | <input checked="" type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sandy Redox (S5) | |
| <input type="checkbox"/> Stripped Matrix (S6) | |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | |

Indicators for Problematic Hydric Soils

- | |
|--|
| <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) |
| <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) |
| <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) |
| <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) |
| <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) |
| <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| <input type="checkbox"/> Red Parent Material (F21) |
| <input type="checkbox"/> Very Shallow Dark Surface (TF12) |
| <input type="checkbox"/> Other (Explain in Remarks) |

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? ☒ **Yes** ☐ **No**

Remarks:

Photos

Photo Name: DE1CW363_121213_WET3N.jpg

Note: DE-1C-W363-WET3

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 65.1 City/County: Delaware Sampling Date: 2013/12/12
Applicant/Owner: Williams State: NY Sampling Point: DE-1C-W363-UPL1
Investigator(s): RR;PL;KH USGS Quad: Otego Section, Township, Range: Franklin
Landform: Hillside Local Relief: ☐ Concave ☐ Convex ☒ None Slope (%): 5
Subregion: Middle Atlantic Latitude: 42.375265 Longitude: -75.15046 Datum: NAD 1983
Soil Map Unit Name: Morris and Volusia soils, 2 to 10 percent slopes, very stony NWI Classification: Not Mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is the Sampled Area within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Remarks: <u>Upland Plot</u>	
Field Wetland Classification:	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☐ Yes ☒ No Depth (inches):

Wetland Hydrology Present? ☐ Yes ☒ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Acer saccharum</i>	10	NO	FACU
<i>Acer rubrum</i>	25	YES	FAC
<i>Pinus strobus</i>	15	YES	FACU
<i>Tsuga canadensis</i>	10	NO	FACU
Total Cover: 60			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Fagus grandifolia</i>	10	YES	FACU
<i>Acer rubrum</i>	5	YES	FAC
Total Cover: 15			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Fagus grandifolia</i>	2	NO	FACU
Total Cover: 2			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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>4</u> (B) Percent of Dominant Species that are OBL, FACW, or FAC: <u>50</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <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>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC Species: <u>30</u></td> <td>x 3 = <u>90</u></td> </tr> <tr> <td>FACU Species: <u>47</u></td> <td>x 4 = <u>188</u></td> </tr> <tr> <td>UPL Species: <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>77</u> (A)</td> <td><u>278</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = <u>3.61</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>30</u>	x 3 = <u>90</u>	FACU Species: <u>47</u>	x 4 = <u>188</u>	UPL Species: <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>77</u> (A)	<u>278</u> (B)	Prevalence Index = B/A = <u>3.61</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>30</u>	x 3 = <u>90</u>																
FACU Species: <u>47</u>	x 4 = <u>188</u>																
UPL Species: <u>0</u>	x 5 = <u>0</u>																
Column Totals: <u>77</u> (A)	<u>278</u> (B)																
Prevalence Index = B/A = <u>3.61</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-1	7.5YR 2.5/2	100					SILT LOAM	
1-10	7.5YR 3/3	100					LOAM	
10-12	7.5YR 3/4	100					LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- | | |
|---|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Stratified Layers (A5) | <input type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sandy Redox (S5) | |
| <input type="checkbox"/> Stripped Matrix (S6) | |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | |

Indicators for Problematic Hydric Soils

- | |
|--|
| <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) |
| <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) |
| <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) |
| <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) |
| <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) |
| <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| <input type="checkbox"/> Red Parent Material (F21) |
| <input type="checkbox"/> Very Shallow Dark Surface (TF12) |
| <input type="checkbox"/> Other (Explain in Remarks) |

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? ☐ Yes ☒ No

Remarks:

Photos

Photo Name: DE1CW363_121213_UPL1N.jpg

Note: DE-1C-W363-UPL1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 64.88 City/County: Delaware Sampling Date: 2013/12/12
Applicant/Owner: Williams State: NY Sampling Point: DE-1C-W364-WET1
Investigator(s): RR;PL;KH USGS Quad: Franklin Section, Township, Range: Franklin
Landform: toe of slope Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 1
Subregion: Middle Atlantic Latitude: 42.374271 Longitude: -75.15453 Datum: NAD 1983
Soil Map Unit Name: Morris flaggy silt loam, 3 to 8 percent slopes NWI Classification: Not Mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: <u>PEM</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input checked="" type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input checked="" type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☒ Yes ☐ No Depth (inches): 0
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Phleum pratense</i>	10	NO	FACU
<i>Euthamia graminifolia</i>	20	YES	FAC
<i>Juncus effusus</i>	20	YES	OBL
<i>Unknown grass</i>	20	YES	NONE
<i>Carex scoparia</i>	30	YES	FACW
<i>Rubus hispidus</i>	10	NO	FACW
Total Cover: 110			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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>4</u> (B) Percent of Dominant Species that are OBL, FACW, or FAC: <u>75</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Total % Cover of:</td> <td style="width: 40%;">Multiply by:</td> </tr> <tr> <td>OBL Species: <u>20</u></td> <td>x 1 = <u>20</u></td> </tr> <tr> <td>FACW Species: <u>40</u></td> <td>x 2 = <u>80</u></td> </tr> <tr> <td>FAC Species: <u>20</u></td> <td>x 3 = <u>60</u></td> </tr> <tr> <td>FACU Species: <u>10</u></td> <td>x 4 = <u>40</u></td> </tr> <tr> <td>UPL Species: <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>90</u> (A)</td> <td><u>200</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = <u>2.22</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: <u>20</u>	x 1 = <u>20</u>	FACW Species: <u>40</u>	x 2 = <u>80</u>	FAC Species: <u>20</u>	x 3 = <u>60</u>	FACU Species: <u>10</u>	x 4 = <u>40</u>	UPL Species: <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>90</u> (A)	<u>200</u> (B)	Prevalence Index = B/A = <u>2.22</u>	
Total % Cover of:	Multiply by:																
OBL Species: <u>20</u>	x 1 = <u>20</u>																
FACW Species: <u>40</u>	x 2 = <u>80</u>																
FAC Species: <u>20</u>	x 3 = <u>60</u>																
FACU Species: <u>10</u>	x 4 = <u>40</u>																
UPL Species: <u>0</u>	x 5 = <u>0</u>																
Column Totals: <u>90</u> (A)	<u>200</u> (B)																
Prevalence Index = B/A = <u>2.22</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-6	10YR 2/1	100					LOAM	refusal @6" - rocky

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input checked="" type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
--	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks:	

Photos	
	
Photo Name: DE1CW364_121213_WET1W.jpg	Note: DE-1C-W364-WET1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 64.9 City/County: Delaware Sampling Date: 2013/12/12
Applicant/Owner: Williams State: NY Sampling Point: DE-1C-W364-UPL1
Investigator(s): RR;PL;KH USGS Quad: Franklin Section, Township, Range: Franklin
Landform: Field Local Relief: ☐ Concave ☐ Convex ☒ None Slope (%): 0
Subregion: Middle Atlantic Latitude: 42.374220 Longitude: -75.15399 Datum: NAD 1983
Soil Map Unit Name: Morris flaggy silt loam, 3 to 8 percent slopes NWI Classification: Not Mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is the Sampled Area within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Remarks: <u>Upland Plot</u>	
Field Wetland Classification:	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☐ Yes ☒ No Depth (inches):

Wetland Hydrology Present? ☐ Yes ☒ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Phleum pratense</i>	20	YES	FACU
<i>unknown veg</i>	80	YES	UPL
Total Cover: 100			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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>2</u> (B) Percent of Dominant Species that are OBL, FACW, or FAC: <u>0</u> (A/B)	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>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>20</u></td> <td>x 4 = <u>80</u></td> </tr> <tr> <td>UPL Species: <u>80</u></td> <td>x 5 = <u>400</u></td> </tr> <tr> <td>Column Totals: <u>100</u> (A)</td> <td><u>480</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>4.80</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>20</u>	x 4 = <u>80</u>	UPL Species: <u>80</u>	x 5 = <u>400</u>	Column Totals: <u>100</u> (A)	<u>480</u> (B)	Prevalence Index = B/A = <u>4.80</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>20</u>	x 4 = <u>80</u>																
UPL Species: <u>80</u>	x 5 = <u>400</u>																
Column Totals: <u>100</u> (A)	<u>480</u> (B)																
Prevalence Index = B/A = <u>4.80</u>																	

Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Remarks:	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-2	7.5YR 3/3	100					SILT LOAM	
2-14	7.5YR 3/4	100					FINE SANDY LOAM	
14-18	7.5YR 4/6	100					FINE SANDY LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- | | |
|---|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Stratified Layers (A5) | <input type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sandy Redox (S5) | |
| <input type="checkbox"/> Stripped Matrix (S6) | |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | |

Indicators for Problematic Hydric Soils

- ☐ 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- ☐ Coast: Prairie Redox (A16) (LRR K, L, R)
- ☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- ☐ Dark Surface (S7) (LRR K, L, M)
- ☐ Polyvalue Below Surface (S8) (LRR K, L)
- ☐ Thin Dark Surface (S9) (LRR K, L)
- ☐ Iron-Manganese Masses (F12) (LRR K, L, R)
- ☐ Piedmont Floodplain Soils (F19) (MLRA 149B)
- ☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- ☐ Red Parent Material (F21)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? ☐ Yes ☒ No

Remarks:

Photos



Photo Name: DE1CW364_121213_UPL1SW.jpg

Note: DE-1C-W364-UPL1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 75.83550 City/County: Delaware Sampling Date: 2014/04/24
Applicant/Owner: Williams State: NY Sampling Point: DE-1C-W371-WET1
Investigator(s): RR;KH USGS Quad: Oneonta Section, Township, Range: Davenport
Landform: Drainageway Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 1
Subregion: Middle Atlantic Latitude: 42.419490 Longitude: -75.00725 Datum: NAD 1983
Soil Map Unit Name: Onteora channery silt loam, 3 to 8 percent slopes NWI Classification: Not mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: PSS	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input checked="" type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input checked="" type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☒ Yes ☐ No Depth (inches): 2
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Acer rubrum</i>	5	YES	FAC
<i>Salix sp</i>	5	YES	FAC
Total Cover: 10			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Spiraea alba</i>	10	YES	FACW
<i>Viburnum dentatum</i>	10	YES	FAC
<i>Salix sp</i>	30	YES	FAC
Total Cover: 50			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Solidago gigantea</i>	10	NO	FACW
<i>Scirpus cyperinus</i>	25	YES	OBL
<i>Onoclea sensibilis</i>	40	YES	FACW
<i>Carex sp</i>	10	NO	FAC
Total Cover: 85			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

Dominance Test Worksheet: Number of Dominant Species that are OBL, FACW, or FAC: 7 (A) Total Number of Dominant Species Across All Strata: 7 (B) Percent of Dominant Species that are OBL, FACW, or FAC: 100 (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: 25</td> <td>x 1 = 25</td> </tr> <tr> <td>FACW Species: 60</td> <td>x 2 = 120</td> </tr> <tr> <td>FAC Species: 60</td> <td>x 3 = 180</td> </tr> <tr> <td>FACU Species: 0</td> <td>x 4 = 0</td> </tr> <tr> <td>UPL Species: 0</td> <td>x 5 = 0</td> </tr> <tr> <td>Column Totals: 145 (A)</td> <td>325 (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = 2.24</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: 25	x 1 = 25	FACW Species: 60	x 2 = 120	FAC Species: 60	x 3 = 180	FACU Species: 0	x 4 = 0	UPL Species: 0	x 5 = 0	Column Totals: 145 (A)	325 (B)	Prevalence Index = B/A = 2.24	
Total % Cover of:	Multiply by:																
OBL Species: 25	x 1 = 25																
FACW Species: 60	x 2 = 120																
FAC Species: 60	x 3 = 180																
FACU Species: 0	x 4 = 0																
UPL Species: 0	x 5 = 0																
Column Totals: 145 (A)	325 (B)																
Prevalence Index = B/A = 2.24																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-6	7.5YR 4/2	100					SILT LOAM	W/organic material
6-20	5YR 4/2	98	2.5Y 5/4	2	D	M	FINE SANDY LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
--	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks: 	

Photos	
<div data-bbox="480 552 1070 1020" data-label="Image"> </div> <div data-bbox="66 1026 1498 1064"> <div>Photo Name: DE1CW371_042414_WET1SE.jpg</div> <div>Note: DE-1C-W371-WET1</div> </div>	

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 75.81244 City/County: Delaware Sampling Date: 2014/04/24
Applicant/Owner: Williams State: NY Sampling Point: DE-1C-W371-UPL1
Investigator(s): RR;KH USGS Quad: Oneonta Section, Township, Range: Davenport
Landform: Hillside Local Relief: ☐ Concave ☐ Convex ☒ None Slope (%): 4
Subregion: Middle Atlantic Latitude: 42.419305 Longitude: -75.00770 Datum: NAD 1983
Soil Map Unit Name: Onteora channery silt loam, 3 to 8 percent slopes NWI Classification: Not mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is the Sampled Area within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Remarks: <u>Upland plot</u>	
Field Wetland Classification:	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☐ Yes ☒ No Depth (inches):

Wetland Hydrology Present? ☐ Yes ☒ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Pinus serotina</i>	15	YES	OBL
<i>Carpinus caroliniana</i>	15	NO	FAC
<i>Acer saccharum</i>	5	YES	FACU
<i>Fraxinus americana</i>	20	YES	FACU
Total Cover: 55			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Carpinus caroliniana</i>	15	YES	FAC
<i>Fraxinus americana</i>	5	YES	FACU
Total Cover: 20			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Dactylis glomerata</i>	10	YES	FACU
<i>Solidago sp</i>	3	NO	FACU
Total Cover: 13			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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>6</u> (B) Percent of Dominant Species that are OBL, FACW, or FAC: <u>33</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: <u>15</u></td> <td>x 1 = <u>15</u></td> </tr> <tr> <td>FACW Species: <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC Species: <u>30</u></td> <td>x 3 = <u>90</u></td> </tr> <tr> <td>FACU Species: <u>43</u></td> <td>x 4 = <u>172</u></td> </tr> <tr> <td>UPL Species: <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>88</u> (A)</td> <td><u>277</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = <u>3.15</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: <u>15</u>	x 1 = <u>15</u>	FACW Species: <u>0</u>	x 2 = <u>0</u>	FAC Species: <u>30</u>	x 3 = <u>90</u>	FACU Species: <u>43</u>	x 4 = <u>172</u>	UPL Species: <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>88</u> (A)	<u>277</u> (B)	Prevalence Index = B/A = <u>3.15</u>	
Total % Cover of:	Multiply by:																
OBL Species: <u>15</u>	x 1 = <u>15</u>																
FACW Species: <u>0</u>	x 2 = <u>0</u>																
FAC Species: <u>30</u>	x 3 = <u>90</u>																
FACU Species: <u>43</u>	x 4 = <u>172</u>																
UPL Species: <u>0</u>	x 5 = <u>0</u>																
Column Totals: <u>88</u> (A)	<u>277</u> (B)																
Prevalence Index = B/A = <u>3.15</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-6	7.5YR 3/3	100					SILT LOAM	
6-12	7.5YR 4/3	100					SILT LOAM	
12-18	5YR 4/4	100					SILT LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- | | |
|---|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Stratified Layers (A5) | <input type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sandy Redox (S5) | |
| <input type="checkbox"/> Stripped Matrix (S6) | |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | |

Indicators for Problematic Hydric Soils

- | |
|--|
| <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) |
| <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) |
| <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) |
| <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) |
| <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) |
| <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| <input type="checkbox"/> Red Parent Material (F21) |
| <input type="checkbox"/> Very Shallow Dark Surface (TF12) |
| <input type="checkbox"/> Other (Explain in Remarks) |

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? ☐ Yes ☒ No

Remarks:

Photos

Photo Name: DE1CW371_042414_UPL1S.jpg

Note: DE-1C-W371-UPL1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 76.87419 City/County: Delaware Sampling Date: 2014/05/05
Applicant/Owner: Williams State: NY Sampling Point: DE-1C-W375A-WET1
Investigator(s): RR;KH USGS Quad: West Davenport Section, Township, Range: Davenport
Landform: Hillside Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 2
Subregion: Middle Atlantic Latitude: 42.423173 Longitude: -74.98797 Datum: NAD 1983
Soil Map Unit Name: Halcott, Mongaup, and Vly soils, 2 to 15 percent slopes, very rocky NWI Classification: Not mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☒ or Hydrology ☐ naturally problematic? ☐ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: <u>PFO</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input checked="" type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input checked="" type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☒ Yes ☐ No Depth (inches): 0
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Acer rubrum</i>	25	YES	FAC
<i>Pinus strobus</i>	10	YES	FACU
Total Cover: 35			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Acer rubrum</i>	35	YES	FAC
Total Cover: 35			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Carex crinita</i>	10	YES	OBL
<i>Leersia oryzoides</i>	15	YES	OBL
<i>Solidago sp</i>	5	NO	FAC
<i>Rubus hispidus</i>	2	NO	FACW
Total Cover: 32			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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>5</u> (B) Percent of Dominant Species that are OBL, FACW, or FAC: <u>80</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: <u>25</u></td> <td>x 1 = <u>25</u></td> </tr> <tr> <td>FACW Species: <u>2</u></td> <td>x 2 = <u>4</u></td> </tr> <tr> <td>FAC Species: <u>65</u></td> <td>x 3 = <u>195</u></td> </tr> <tr> <td>FACU Species: <u>10</u></td> <td>x 4 = <u>40</u></td> </tr> <tr> <td>UPL Species: <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>102</u> (A)</td> <td><u>264</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = <u>2.59</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: <u>25</u>	x 1 = <u>25</u>	FACW Species: <u>2</u>	x 2 = <u>4</u>	FAC Species: <u>65</u>	x 3 = <u>195</u>	FACU Species: <u>10</u>	x 4 = <u>40</u>	UPL Species: <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>102</u> (A)	<u>264</u> (B)	Prevalence Index = B/A = <u>2.59</u>	
Total % Cover of:	Multiply by:																
OBL Species: <u>25</u>	x 1 = <u>25</u>																
FACW Species: <u>2</u>	x 2 = <u>4</u>																
FAC Species: <u>65</u>	x 3 = <u>195</u>																
FACU Species: <u>10</u>	x 4 = <u>40</u>																
UPL Species: <u>0</u>	x 5 = <u>0</u>																
Column Totals: <u>102</u> (A)	<u>264</u> (B)																
Prevalence Index = B/A = <u>2.59</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) <small>¹Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.</small>	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-6	7.5YR 3/3	98	5YR 4/6	2	C	M	FINE SANDY LOAM	10YR 5/6 (5%) C,M
6-12	5YR 4/3	95	5YR 4/6	5	C	M	FINE SANDY LOAM	
12-18	5YR 4/3	90	5YR 4/6	5	C	M	FINE SANDY LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- | | |
|---|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Stratified Layers (A5) | <input checked="" type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sandy Redox (S5) | |
| <input type="checkbox"/> Stripped Matrix (S6) | |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | |

Indicators for Problematic Hydric Soils

- | |
|--|
| <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) |
| <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) |
| <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) |
| <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) |
| <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) |
| <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| <input checked="" type="checkbox"/> Red Parent Material (F21) |
| <input type="checkbox"/> Very Shallow Dark Surface (TF12) |
| <input type="checkbox"/> Other (Explain in Remarks) |

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? ☒ **Yes** ☐ **No**

Remarks:

Photos

Photo Name: DE1CW375A_050514_WET1NW.jpg

Note: DE-1C-W375A-WET1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 76.75817 City/County: Delaware Sampling Date: 2014/05/05
Applicant/Owner: Williams State: NY Sampling Point: DE-1C-W376-WET1
Investigator(s): RR;KH USGS Quad: West Davenport Section, Township, Range: Davenport
Landform: Drainageway Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 2
Subregion: Middle Atlantic Latitude: 42.422456 Longitude: -74.99003 Datum: NAD 1983
Soil Map Unit Name: Willowemoc channery silt loam, 3 to 8 percent slopes NWI Classification: Not mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☒ or Hydrology ☐ naturally problematic? ☐ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: <u>PFO</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input checked="" type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input checked="" type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☒ Yes ☐ No Depth (inches): 4
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Populus tremuloides</i>	45	YES	FACU
<i>Acer rubrum</i>	10	NO	FAC
<i>Pinus strobus</i>	5	NO	FACU
Total Cover: 60			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Fraxinus americana</i>	10	YES	FACU
<i>Populus tremuloides</i>	15	YES	FACU
Total Cover: 25			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Crataegus crus-galli</i>	10	YES	FAC
Total Cover: 10			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Onoclea sensibilis</i>	20	YES	FACW
<i>Rubus hispidus</i>	5	NO	FACW
<i>Solidago sp</i>	5	NO	FAC
<i>Carex sp</i>	5	NO	FAC
<i>Euthamia graminifolia</i>	10	NO	FAC
<i>Ranunculus sp</i>	5	NO	FAC
Total Cover: 50			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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>5</u> (B) Percent of Dominant Species that are OBL, FACW, or FAC: <u>40</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <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>25</u></td> <td>x 2 = <u>50</u></td> </tr> <tr> <td>FAC Species: <u>45</u></td> <td>x 3 = <u>135</u></td> </tr> <tr> <td>FACU Species: <u>75</u></td> <td>x 4 = <u>300</u></td> </tr> <tr> <td>UPL Species: <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>145</u> (A)</td> <td><u>485</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = <u>3.34</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: <u>0</u>	x 1 = <u>0</u>	FACW Species: <u>25</u>	x 2 = <u>50</u>	FAC Species: <u>45</u>	x 3 = <u>135</u>	FACU Species: <u>75</u>	x 4 = <u>300</u>	UPL Species: <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>145</u> (A)	<u>485</u> (B)	Prevalence Index = B/A = <u>3.34</u>	
Total % Cover of:	Multiply by:																
OBL Species: <u>0</u>	x 1 = <u>0</u>																
FACW Species: <u>25</u>	x 2 = <u>50</u>																
FAC Species: <u>45</u>	x 3 = <u>135</u>																
FACU Species: <u>75</u>	x 4 = <u>300</u>																
UPL Species: <u>0</u>	x 5 = <u>0</u>																
Column Totals: <u>145</u> (A)	<u>485</u> (B)																
Prevalence Index = B/A = <u>3.34</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input checked="" type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-1	5YR 3/3	100					FINE SANDY LOAM	
1-12	5YR 4/3	97	5YR 4/6	3	C	PL	SILT LOAM	
12-20	5YR 4/3	90	5YR 5/6	10	C	M	CLAY LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- | | |
|---|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Stratified Layers (A5) | <input checked="" type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sandy Redox (S5) | |
| <input type="checkbox"/> Stripped Matrix (S6) | |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | |

Indicators for Problematic Hydric Soils

- | |
|--|
| <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) |
| <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) |
| <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) |
| <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) |
| <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) |
| <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| <input checked="" type="checkbox"/> Red Parent Material (F21) |
| <input type="checkbox"/> Very Shallow Dark Surface (TF12) |
| <input type="checkbox"/> Other (Explain in Remarks) |

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? ☒ **Yes** ☐ **No**

Remarks:

Photos

Photo Name: DE1CW376_050514_WET1N.jpg

Note: DE-1C-W376-WET1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 76.88645 City/County: Delaware Sampling Date: 2014/05/06
Applicant/Owner: Williams State: NY Sampling Point: DE-1C-W377-WET1
Investigator(s): RR;KH USGS Quad: West Davenport Section, Township, Range: Davenport
Landform: Drainageway Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 2
Subregion: Middle Atlantic Latitude: 42.424606 Longitude: -74.98844 Datum: NAD 1983
Soil Map Unit Name: Vly channery silt loam, 8 to 15 percent slopes NWI Classification: Not mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: <u>egg masses present in standing water</u>	
Field Wetland Classification: <u>PSS</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input checked="" type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input checked="" type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input checked="" type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☒ Yes ☐ No Depth (inches): 2
Water Table Present: ☒ Yes ☐ No Depth (inches): 0
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Acer rubrum</i>	5	YES	FAC
<i>Populus tremuloides</i>	10	YES	FACU
<i>Malus sp</i>	3	NO	NONE
Total Cover: 18			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Spiraea alba</i>	25	YES	FACW
<i>Lonicera morrowii</i>	2	NO	FACU
<i>Crataegus crus-galli</i>	5	NO	FAC
Total Cover: 32			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Juncus effusus</i>	20	YES	OBL
<i>Carex crinita</i>	20	YES	OBL
<i>Persicaria sagittata</i>	5	NO	OBL
<i>Impatiens capensis</i>	10	NO	FACW
Total Cover: 55			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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>5</u> (B) Percent of Dominant Species that are OBL, FACW, or FAC: <u>80</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: <u>45</u></td> <td>x 1 = <u>45</u></td> </tr> <tr> <td>FACW Species: <u>35</u></td> <td>x 2 = <u>70</u></td> </tr> <tr> <td>FAC Species: <u>10</u></td> <td>x 3 = <u>30</u></td> </tr> <tr> <td>FACU Species: <u>12</u></td> <td>x 4 = <u>48</u></td> </tr> <tr> <td>UPL Species: <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>102</u> (A)</td> <td><u>193</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = <u>1.89</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: <u>45</u>	x 1 = <u>45</u>	FACW Species: <u>35</u>	x 2 = <u>70</u>	FAC Species: <u>10</u>	x 3 = <u>30</u>	FACU Species: <u>12</u>	x 4 = <u>48</u>	UPL Species: <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>102</u> (A)	<u>193</u> (B)	Prevalence Index = B/A = <u>1.89</u>	
Total % Cover of:	Multiply by:																
OBL Species: <u>45</u>	x 1 = <u>45</u>																
FACW Species: <u>35</u>	x 2 = <u>70</u>																
FAC Species: <u>10</u>	x 3 = <u>30</u>																
FACU Species: <u>12</u>	x 4 = <u>48</u>																
UPL Species: <u>0</u>	x 5 = <u>0</u>																
Column Totals: <u>102</u> (A)	<u>193</u> (B)																
Prevalence Index = B/A = <u>1.89</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-3	7.5YR 3/4	100					LOAM	
3-8	5YR 4/4	100					LOAM	
8-12	5YR 4/3	97	5YR 4/6	3	C	M	CLAY LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- | | |
|---|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Stratified Layers (A5) | <input checked="" type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sandy Redox (S5) | |
| <input type="checkbox"/> Stripped Matrix (S6) | |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | |

Indicators for Problematic Hydric Soils

- | |
|--|
| <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) |
| <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) |
| <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) |
| <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) |
| <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) |
| <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| <input checked="" type="checkbox"/> Red Parent Material (F21) |
| <input type="checkbox"/> Very Shallow Dark Surface (TF12) |
| <input type="checkbox"/> Other (Explain in Remarks) |

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? ☒ **Yes** ☐ **No**

Remarks:

Photos

Photo Name: DE1CW377_050614_WET1SW.jpg

Note: DE-1C-W377-WET1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 76.87986 City/County: Delaware Sampling Date: 2014/05/06
Applicant/Owner: Williams State: NY Sampling Point: DE-1C-W377-UPL1
Investigator(s): RR;KH USGS Quad: West Davenport Section, Township, Range: Davenport
Landform: terrace Local Relief: ☐ Concave ☐ Convex ☒ None Slope (%): 2
Subregion: Middle Atlantic Latitude: 42.424618 Longitude: -74.98859 Datum: NAD 1983
Soil Map Unit Name: Vly channery silt loam, 8 to 15 percent slopes NWI Classification: Not mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is the Sampled Area within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Remarks: <u>Upland plot</u>	
Field Wetland Classification:	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☐ Yes ☒ No Depth (inches):

Wetland Hydrology Present? ☐ Yes ☒ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Acer rubrum</i>	15	YES	FAC
Total Cover: 15			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Taraxacum officinale</i>	20	YES	FACU
<i>Galium mollugo</i>	5	NO	UPL
<i>Plantago lanceolata</i>	10	NO	FACU
<i>unknown grass</i>	65	YES	UPL
Total Cover: 100			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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>3</u> (B) Percent of Dominant Species that are OBL, FACW, or FAC: <u>33</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <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>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC Species: <u>15</u></td> <td>x 3 = <u>45</u></td> </tr> <tr> <td>FACU Species: <u>30</u></td> <td>x 4 = <u>120</u></td> </tr> <tr> <td>UPL Species: <u>70</u></td> <td>x 5 = <u>350</u></td> </tr> <tr> <td>Column Totals: <u>115</u> (A)</td> <td><u>515</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = <u>4.48</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>15</u>	x 3 = <u>45</u>	FACU Species: <u>30</u>	x 4 = <u>120</u>	UPL Species: <u>70</u>	x 5 = <u>350</u>	Column Totals: <u>115</u> (A)	<u>515</u> (B)	Prevalence Index = B/A = <u>4.48</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>15</u>	x 3 = <u>45</u>																
FACU Species: <u>30</u>	x 4 = <u>120</u>																
UPL Species: <u>70</u>	x 5 = <u>350</u>																
Column Totals: <u>115</u> (A)	<u>515</u> (B)																
Prevalence Index = B/A = <u>4.48</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-4	7.5YR 3/4	100					SILT LOAM	
4-10	7.5YR 4/4	100					SILT LOAM	
10-13	5YR 4/4	100					SILTY CLAY LOAM	Refusal@13" rocky

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- | | |
|---|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Stratified Layers (A5) | <input type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sandy Redox (S5) | |
| <input type="checkbox"/> Stripped Matrix (S6) | |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | |

Indicators for Problematic Hydric Soils

- | |
|--|
| <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) |
| <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) |
| <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) |
| <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) |
| <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) |
| <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| <input type="checkbox"/> Red Parent Material (F21) |
| <input type="checkbox"/> Very Shallow Dark Surface (TF12) |
| <input type="checkbox"/> Other (Explain in Remarks) |

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? ☐ Yes ☒ No

Remarks:

Photos

Photo Name: DE1CW377_050614_UPL1N.jpg

Note: DE-1C-W377-UPL1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Constitution Milepost 83.49 City/County: Delaware Sampling Date: 2012/07/19
Applicant/Owner: Williams State: NY Sampling Point: DE-1G-W011-WET1
Investigator(s): AH,ELG USGS Quad: Davenport Section, Township, Range: Davenport
Landform: Depression Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 5
Subregion: Middle Atlantic Latitude: 42.454819 Longitude: -74.83290 Datum: NAD1983
Soil Map Unit Name: Willowemoc and Willdin soils, 2 to 15 percent slopes, very stony NWI Classification: Not mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: <u>PFO</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input checked="" type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input checked="" type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input checked="" type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Tsuga canadensis</i>	60	YES	FACU
<i>Fraxinus pennsylvanica</i>	20	YES	FACW
<i>Ostrya virginiana</i>	5	NO	FACU
Total Cover: 85			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Acer rubrum</i>	10	YES	FAC
<i>Fraxinus pennsylvanica</i>	10	YES	FACW
Total Cover: 20			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover: 0			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Arisaema triphyllum</i>	10	YES	FAC
<i>Oxalis montana</i>	5	NO	FACU
<i>Thelypteris simulata</i>	20	YES	FACW
Total Cover: 35			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover: 0			

Dominance Test Worksheet: Number of Dominant Species that are OBL, FACW, or FAC: <u>5</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species that are OBL, FACW, or FAC: <u>83</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Total % Cover of:</td> <td style="width: 40%;">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>50</u></td> <td>x 2 = <u>100</u></td> </tr> <tr> <td>FAC Species: <u>20</u></td> <td>x 3 = <u>60</u></td> </tr> <tr> <td>FACU Species: <u>70</u></td> <td>x 4 = <u>280</u></td> </tr> <tr> <td>UPL Species: <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>140</u> (A)</td> <td><u>440</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = <u>3.14</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: <u>0</u>	x 1 = <u>0</u>	FACW Species: <u>50</u>	x 2 = <u>100</u>	FAC Species: <u>20</u>	x 3 = <u>60</u>	FACU Species: <u>70</u>	x 4 = <u>280</u>	UPL Species: <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>140</u> (A)	<u>440</u> (B)	Prevalence Index = B/A = <u>3.14</u>	
Total % Cover of:	Multiply by:																
OBL Species: <u>0</u>	x 1 = <u>0</u>																
FACW Species: <u>50</u>	x 2 = <u>100</u>																
FAC Species: <u>20</u>	x 3 = <u>60</u>																
FACU Species: <u>70</u>	x 4 = <u>280</u>																
UPL Species: <u>0</u>	x 5 = <u>0</u>																
Column Totals: <u>140</u> (A)	<u>440</u> (B)																
Prevalence Index = B/A = <u>3.14</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-12	10YR 3/1	90	10YR 5/6	10	C	M	CLAY LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils³ <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
--	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: <u>ROCK</u> Depth (inches): <u>12</u>	Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks:	

Photos	
<div data-bbox="480 548 1070 1018" data-label="Image"> </div> <div data-bbox="66 1026 662 1058" data-label="Text"> Photo Name: DE1GW011_20120719_WET1W.jpg </div> <div data-bbox="820 1026 1125 1058" data-label="Text"> Note: DE-1G-W011-WET1 </div>	

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Constitution Milepost 83.48 City/County: Delaware Sampling Date: 2012/07/19
Applicant/Owner: Williams State: NY Sampling Point: DE-1G-W011-UPL1
Investigator(s): AH,ELG USGS Quad: Davenport Section, Township, Range: Davenport
Landform: Terrace Local Relief: ☐ Concave ☐ Convex ☒ None Slope (%): 0
Subregion: Middle Atlantic Latitude: 42.454836 Longitude: -74.83314 Datum: NAD1983
Soil Map Unit Name: Willowemoc and Willdin soils, 2 to 15 percent slopes, very stony NWI Classification: Not mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is the Sampled Area within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Remarks: <u>Upland</u>	
Field Wetland Classification:	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☐ Yes ☒ No Depth (inches):

Wetland Hydrology Present? ☐ Yes ☒ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Tsuga canadensis</i>	80	YES	FACU
<i>Betula alleghaniensis</i>	10	NO	FAC
Total Cover: 90			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover: 0			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover: 0			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Maianthemum canadense</i>	5	YES	FACU
<i>Polystichum acrostichoides</i>	20	YES	FACU
Total Cover: 25			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover: 0			

Dominance Test Worksheet: Number of Dominant Species that are OBL, FACW, or FAC: 0 (A) Total Number of Dominant Species Across All Strata: 3 (B) Percent of Dominant Species that are OBL, FACW, or FAC: 0 (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Total % Cover of:</td> <td style="width: 40%;">Multiply by:</td> </tr> <tr> <td>OBL Species: 0</td> <td>x 1 = 0</td> </tr> <tr> <td>FACW Species: 0</td> <td>x 2 = 0</td> </tr> <tr> <td>FAC Species: 10</td> <td>x 3 = 30</td> </tr> <tr> <td>FACU Species: 105</td> <td>x 4 = 420</td> </tr> <tr> <td>UPL Species: 0</td> <td>x 5 = 0</td> </tr> <tr> <td>Column Totals: 115 (A)</td> <td>450 (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = 3.91</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: 0	x 1 = 0	FACW Species: 0	x 2 = 0	FAC Species: 10	x 3 = 30	FACU Species: 105	x 4 = 420	UPL Species: 0	x 5 = 0	Column Totals: 115 (A)	450 (B)	Prevalence Index = B/A = 3.91	
Total % Cover of:	Multiply by:																
OBL Species: 0	x 1 = 0																
FACW Species: 0	x 2 = 0																
FAC Species: 10	x 3 = 30																
FACU Species: 105	x 4 = 420																
UPL Species: 0	x 5 = 0																
Column Totals: 115 (A)	450 (B)																
Prevalence Index = B/A = 3.91																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-1		0		0				ORGANIC
1-6	10YR 4/3	100		0		None	SILT LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils³ <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
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³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: <u>ROCK REFUSAL</u> Depth (inches): <u>6</u>	Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Remarks:	

Photos	
<div data-bbox="482 552 1073 1022" data-label="Image"> </div> <div data-bbox="66 1031 652 1060" data-label="Text"> Photo Name: DE1GW011_20120719_UPL1W.jpg </div> <div data-bbox="826 1031 1115 1060" data-label="Text"> Note: DE-1G-W011-UPL1 </div>	

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 70.4 City/County: Delaware Sampling Date: 2013/04/02
Applicant/Owner: Williams State: NY Sampling Point: DE-1H-W268-WET1
Investigator(s): AT; KH (SH) USGS Quad: Oneonta Section, Township, Range: Franklin
Landform: toe of slope Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): _____
Subregion: Middle Atlantic Latitude: -75.04167 Longitude: -75.04167 Datum: NAD1983
Soil Map Unit Name: Fluvaquents-Udifluvents complex, frequently flooded 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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: PSS	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|--|
| <input checked="" type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input checked="" type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☐ No Depth (inches): _____
Water Table Present: ☐ Yes ☐ No Depth (inches): _____
Saturation Present: ☐ Yes ☐ No Depth (inches): _____

Wetland Hydrology Present? ☐ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size:	feet		
Scientific Name		% Cover	Dominant Indicator
<i>Acer rubrum</i>		15	YES FAC
Total Cover: 15			
Sapling Stratum			
Plot Size:	feet		
Scientific Name		% Cover	Dominant Indicator
Total Cover:			
Shrub Stratum			
Plot Size:	feet		
Scientific Name		% Cover	Dominant Indicator
<i>Alnus rugosa</i>		15	YES NONE
<i>Vaccinium corymbosum</i>		30	YES FACW
<i>Spiraea alba</i>		10	NO FACW
<i>Lonicera tatarica</i>		10	NO FACU
<i>Sambucus canadensis</i>		5	NO FACW
<i>Acer rubrum</i>		15	YES FAC
<i>Viburnum nudum</i>		10	NO FACU
Total Cover: 95			
Herb Stratum			
Plot Size:	feet		
Scientific Name		% Cover	Dominant Indicator
<i>Onoclea sensibilis</i>		40	YES FACW
<i>Glyceria striata</i>		15	YES OBL
Total Cover: 55			
Vine Stratum			
Plot Size:	feet		
Scientific Name		% Cover	Dominant Indicator
Total Cover:			

Dominance Test Worksheet: Number of Dominant Species that are OBL, FACW, or FAC: <u>5</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species that are OBL, FACW, or FAC: <u>83.33</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Total % Cover of:</td> <td style="width: 20%;"></td> <td style="width: 20%;">Multiply by:</td> </tr> <tr> <td>OBL Species: <u>15</u></td> <td>x 1 =</td> <td><u>15</u></td> </tr> <tr> <td>FACW Species: <u>85</u></td> <td>x 2 =</td> <td><u>170</u></td> </tr> <tr> <td>FAC Species: <u>30</u></td> <td>x 3 =</td> <td><u>90</u></td> </tr> <tr> <td>FACU Species: <u>20</u></td> <td>x 4 =</td> <td><u>80</u></td> </tr> <tr> <td>UPL Species: <u>0</u></td> <td>x 5 =</td> <td><u>0</u></td> </tr> <tr> <td>Column Totals: <u>150</u> (A)</td> <td></td> <td><u>355</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A =</td> <td><u>2.37</u></td> </tr> </table>	Total % Cover of:		Multiply by:	OBL Species: <u>15</u>	x 1 =	<u>15</u>	FACW Species: <u>85</u>	x 2 =	<u>170</u>	FAC Species: <u>30</u>	x 3 =	<u>90</u>	FACU Species: <u>20</u>	x 4 =	<u>80</u>	UPL Species: <u>0</u>	x 5 =	<u>0</u>	Column Totals: <u>150</u> (A)		<u>355</u> (B)	Prevalence Index = B/A =		<u>2.37</u>
Total % Cover of:		Multiply by:																							
OBL Species: <u>15</u>	x 1 =	<u>15</u>																							
FACW Species: <u>85</u>	x 2 =	<u>170</u>																							
FAC Species: <u>30</u>	x 3 =	<u>90</u>																							
FACU Species: <u>20</u>	x 4 =	<u>80</u>																							
UPL Species: <u>0</u>	x 5 =	<u>0</u>																							
Column Totals: <u>150</u> (A)		<u>355</u> (B)																							
Prevalence Index = B/A =		<u>2.37</u>																							
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																								
Remarks:																									

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-3	Organic					None	ORGANIC	Rocky-silt
3-6	7.5YR 4/2	100				None	SILT LOAM	
6-12	7.5YR 4/2	80	10YR 3/4	20	C	PL	SILT	
12-18+	10YR 4/2	70	10YR 5/4	30	C	PL	SILT	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- | | |
|---|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Stratified Layers (A5) | <input checked="" type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Sandy Greyed Matrix (S4) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sandy Redox (S5) | |
| <input type="checkbox"/> Stripped Matrix (S6) | |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | |

Indicators for Problematic Hydric Soils

- | |
|--|
| <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) |
| <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) |
| <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) |
| <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) |
| <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) |
| <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| <input type="checkbox"/> Red Parent Material (F21) |
| <input type="checkbox"/> Very Shallow Dark Surface (TF12) |
| <input type="checkbox"/> Other (Explain in Remarks) |

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? ☐ Yes ☐ No

Remarks:

Photos

Photo Name: DE1HW268_040213_WET1N.jpg

Note: DE-1H-W268-WET1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 70.4 City/County: Delaware Sampling Date: 2013/04/02
Applicant/Owner: Williams State: NY Sampling Point: DE-1H-W268-WET1
Investigator(s): AT; KH (SH) USGS Quad: Oneonta Section, Township, Range: Franklin
Landform: toe of slope Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): _____
Subregion: Middle Atlantic Latitude: -75.04167 Longitude: -75.04167 Datum: NAD1983
Soil Map Unit Name: Fluvaquents-Udifluvents complex, frequently flooded 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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: PSS	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|--|
| <input checked="" type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input checked="" type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☐ No Depth (inches): _____
Water Table Present: ☐ Yes ☐ No Depth (inches): _____
Saturation Present: ☐ Yes ☐ No Depth (inches): _____

Wetland Hydrology Present? ☐ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size:	feet		
Scientific Name		% Cover	Dominant Indicator
<i>Acer rubrum</i>		15	YES FAC
Total Cover: 15			
Sapling Stratum			
Plot Size:	feet		
Scientific Name		% Cover	Dominant Indicator
Total Cover:			
Shrub Stratum			
Plot Size:	feet		
Scientific Name		% Cover	Dominant Indicator
<i>Alnus rugosa</i>		15	YES NONE
<i>Vaccinium corymbosum</i>		30	YES FACW
<i>Spiraea alba</i>		10	NO FACW
<i>Lonicera tatarica</i>		10	NO FACU
<i>Sambucus canadensis</i>		5	NO FACW
<i>Acer rubrum</i>		15	YES FAC
<i>Viburnum nudum</i>		10	NO FACU
Total Cover: 95			
Herb Stratum			
Plot Size:	feet		
Scientific Name		% Cover	Dominant Indicator
<i>Onoclea sensibilis</i>		40	YES FACW
<i>Glyceria striata</i>		15	YES OBL
Total Cover: 55			
Vine Stratum			
Plot Size:	feet		
Scientific Name		% Cover	Dominant Indicator
Total Cover:			

Dominance Test Worksheet: Number of Dominant Species that are OBL, FACW, or FAC: <u>5</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species that are OBL, FACW, or FAC: <u>83.33</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Total % Cover of:</td> <td style="width: 20%;"></td> <td style="width: 20%;">Multiply by:</td> </tr> <tr> <td>OBL Species: <u>15</u></td> <td>x 1 =</td> <td><u>15</u></td> </tr> <tr> <td>FACW Species: <u>85</u></td> <td>x 2 =</td> <td><u>170</u></td> </tr> <tr> <td>FAC Species: <u>30</u></td> <td>x 3 =</td> <td><u>90</u></td> </tr> <tr> <td>FACU Species: <u>20</u></td> <td>x 4 =</td> <td><u>80</u></td> </tr> <tr> <td>UPL Species: <u>0</u></td> <td>x 5 =</td> <td><u>0</u></td> </tr> <tr> <td>Column Totals: <u>150</u> (A)</td> <td></td> <td><u>355</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A =</td> <td><u>2.37</u></td> </tr> </table>	Total % Cover of:		Multiply by:	OBL Species: <u>15</u>	x 1 =	<u>15</u>	FACW Species: <u>85</u>	x 2 =	<u>170</u>	FAC Species: <u>30</u>	x 3 =	<u>90</u>	FACU Species: <u>20</u>	x 4 =	<u>80</u>	UPL Species: <u>0</u>	x 5 =	<u>0</u>	Column Totals: <u>150</u> (A)		<u>355</u> (B)	Prevalence Index = B/A =		<u>2.37</u>
Total % Cover of:		Multiply by:																							
OBL Species: <u>15</u>	x 1 =	<u>15</u>																							
FACW Species: <u>85</u>	x 2 =	<u>170</u>																							
FAC Species: <u>30</u>	x 3 =	<u>90</u>																							
FACU Species: <u>20</u>	x 4 =	<u>80</u>																							
UPL Species: <u>0</u>	x 5 =	<u>0</u>																							
Column Totals: <u>150</u> (A)		<u>355</u> (B)																							
Prevalence Index = B/A =		<u>2.37</u>																							
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																								
Remarks:																									

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-3	Organic					None	ORGANIC	Rocky-silt
3-6	7.5YR 4/2	100				None	SILT LOAM	
6-12	7.5YR 4/2	80	10YR 3/4	20	C	PL	SILT	
12-18+	10YR 4/2	70	10YR 5/4	30	C	PL	SILT	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- | | |
|---|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Stratified Layers (A5) | <input checked="" type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Sandy Greyed Matrix (S4) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sandy Redox (S5) | |
| <input type="checkbox"/> Stripped Matrix (S6) | |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | |

Indicators for Problematic Hydric Soils

- | |
|--|
| <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) |
| <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) |
| <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) |
| <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) |
| <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) |
| <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| <input type="checkbox"/> Red Parent Material (F21) |
| <input type="checkbox"/> Very Shallow Dark Surface (TF12) |
| <input type="checkbox"/> Other (Explain in Remarks) |

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? ☐ Yes ☐ No

Remarks:

Photos

Photo Name: DE1HW268_040213_WET1N.jpg

Note: DE-1H-W268-WET1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 70.5 City/County: Delaware Sampling Date: 2013/04/02
Applicant/Owner: Williams State: NY Sampling Point: DE-1H-W268-UPL1
Investigator(s): AT; KH USGS Quad: Oneonta Section, Township, Range: Franklin
Landform: _____ Local Relief: ☐ Concave ☐ Convex ☐ None Slope (%): _____
Subregion: Middle Atlantic Latitude: 42.424328 Longitude: -75.07030 Datum: NAD1983
Soil Map Unit Name: Onteora and Ontusia soils, 2 to 10 percent slopes, very stony 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? ☐ No Are "Normal Circumstances" present? ☐ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☐ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is the Sampled Area within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Remarks: <u>Upland plot</u>	
Field Wetland Classification: _____	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches): _____
Water Table Present: ☐ Yes ☒ No Depth (inches): _____
Saturation Present: ☐ Yes ☒ No Depth (inches): _____

Wetland Hydrology Present? ☐ Yes ☒ No

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

Remarks: _____

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Pinus resinosa</i>	45	YES	FACU
<i>Acer rubrum</i>	10	NO	FAC
Total Cover: 55			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Fagus grandifolia</i>	20	YES	FACU
<i>Acer rubrum</i>	10	YES	FAC
Total Cover: 30			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Rubus hispidus</i>	10	YES	FACW
Total Cover: 10			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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>4</u> (B) Percent of Dominant Species that are OBL, FACW, or FAC: <u>50</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Total % Cover of:</td> <td style="width: 20%;"></td> <td style="width: 20%;">Multiply by:</td> <td style="width: 20%;"></td> </tr> <tr> <td>OBL Species:</td> <td style="text-align: center;">0</td> <td>x 1 =</td> <td style="text-align: center;">0</td> </tr> <tr> <td>FACW Species:</td> <td style="text-align: center;">10</td> <td>x 2 =</td> <td style="text-align: center;">20</td> </tr> <tr> <td>FAC Species:</td> <td style="text-align: center;">20</td> <td>x 3 =</td> <td style="text-align: center;">60</td> </tr> <tr> <td>FACU Species:</td> <td style="text-align: center;">65</td> <td>x 4 =</td> <td style="text-align: center;">260</td> </tr> <tr> <td>UPL Species:</td> <td style="text-align: center;">0</td> <td>x 5 =</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Column Totals:</td> <td style="text-align: center;">95 (A)</td> <td></td> <td style="text-align: center;">340 (B)</td> </tr> <tr> <td colspan="3">Prevalence Index = B/A =</td> <td style="text-align: center;">3.58</td> </tr> </table>	Total % Cover of:		Multiply by:		OBL Species:	0	x 1 =	0	FACW Species:	10	x 2 =	20	FAC Species:	20	x 3 =	60	FACU Species:	65	x 4 =	260	UPL Species:	0	x 5 =	0	Column Totals:	95 (A)		340 (B)	Prevalence Index = B/A =			3.58
Total % Cover of:		Multiply by:																															
OBL Species:	0	x 1 =	0																														
FACW Species:	10	x 2 =	20																														
FAC Species:	20	x 3 =	60																														
FACU Species:	65	x 4 =	260																														
UPL Species:	0	x 5 =	0																														
Column Totals:	95 (A)		340 (B)																														
Prevalence Index = B/A =			3.58																														
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																
Remarks:																																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-18	5YR 4/4	100					SILT	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
³ Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.	

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Remarks:	

Photos	
<div data-bbox="461 552 1089 1022" data-label="Image"> </div> <div data-bbox="66 1031 634 1064"> Photo Name: DE1HW268_040213_UPL1NE.jpg </div> <div data-bbox="820 1031 1115 1064"> Note: DE-1H-W268-UPL1 </div>	

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Constitution Milepost 81.87 City/County: Delaware Sampling Date: 2012/07/18
Applicant/Owner: Williams State: NY Sampling Point: DE-1N-W005-WET1
Investigator(s): DG,ELG USGS Quad: Davenport Section, Township, Range: Davenport
Landform: Depression/ pits & mounds Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 2
Subregion: Middle Atlantic Latitude: 42.449344 Longitude: -74.86295 Datum: NAD1983
Soil Map Unit Name: Middlebrook-Mongaup complex, 2 to 8 percent slopes NWI Classification: Not mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: <u>VERY DRY CLIMATE CONDITIONS DUE TO DROUGHT. SOILS DRY BUT STILL HYDRIC.</u>	
Field Wetland Classification: <u>PFO</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input checked="" type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input checked="" type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☐ Yes ☒ No Depth (inches):

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 20 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Acer rubrum</i>	60	YES	FAC
Total Cover: 60			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover: 0			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Vaccinium corymbosum</i>	70	YES	FACW
Total Cover: 70			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Acer rubrum</i>	10	YES	FAC
<i>Scirpus cyperinus</i>	10	YES	OBL
<i>Carex lurida</i>	5	YES	OBL
<i>Typha latifolia</i>	10	YES	OBL
<i>Spiraea alba</i>	10	YES	FACW
Total Cover: 45			
Vine Stratum			
Plot Size: 20 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover: 0			

Dominance Test Worksheet: Number of Dominant Species that are OBL, FACW, or FAC: <u>7</u> (A) Total Number of Dominant Species Across All Strata: <u>7</u> (B) Percent of Dominant Species that are OBL, FACW, or FAC: <u>100</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Total % Cover of:</td> <td style="width: 40%;">Multiply by:</td> </tr> <tr> <td>OBL Species: <u>25</u></td> <td>x 1 = <u>25</u></td> </tr> <tr> <td>FACW Species: <u>80</u></td> <td>x 2 = <u>160</u></td> </tr> <tr> <td>FAC Species: <u>70</u></td> <td>x 3 = <u>210</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>175</u> (A)</td> <td><u>395</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = <u>2.26</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: <u>25</u>	x 1 = <u>25</u>	FACW Species: <u>80</u>	x 2 = <u>160</u>	FAC Species: <u>70</u>	x 3 = <u>210</u>	FACU Species: <u>0</u>	x 4 = <u>0</u>	UPL Species: <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>175</u> (A)	<u>395</u> (B)	Prevalence Index = B/A = <u>2.26</u>	
Total % Cover of:	Multiply by:																
OBL Species: <u>25</u>	x 1 = <u>25</u>																
FACW Species: <u>80</u>	x 2 = <u>160</u>																
FAC Species: <u>70</u>	x 3 = <u>210</u>																
FACU Species: <u>0</u>	x 4 = <u>0</u>																
UPL Species: <u>0</u>	x 5 = <u>0</u>																
Column Totals: <u>175</u> (A)	<u>395</u> (B)																
Prevalence Index = B/A = <u>2.26</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-2		0		0		None		ORGANIC LAYER
2-10	10YR 4/2	70	10 YR 4/6	30	C	M	LOAM	REALLY DRY

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils³ <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
--	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks:	

Photos	
	
Photo Name: DE1NW005_20120718_WET1E.jpg	Note: DE-1N-W005-WET1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Constitution Milepost 81.87 City/County: Delaware Sampling Date: 2012/07/18
Applicant/Owner: Williams State: NY Sampling Point: DE-1N-W005-UPL1
Investigator(s): DG,ELG USGS Quad: Davenport Section, Township, Range: Davenport
Landform: Flat Local Relief: ☐ Concave ☐ Convex ☒ None Slope (%): _____
Subregion: Middle Atlantic Latitude: 42.449212 Longitude: -74.86298 Datum: NAD1983
Soil Map Unit Name: Middlebrook-Mongaup complex, 2 to 8 percent slopes NWI Classification: Not mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is the Sampled Area within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Remarks: <u>Upland</u>	
Field Wetland Classification:	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches): _____
Water Table Present: ☐ Yes ☒ No Depth (inches): _____
Saturation Present: ☐ Yes ☒ No Depth (inches): _____

Wetland Hydrology Present? ☐ Yes ☒ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Pinus strobus</i>	30	YES	FACU
<i>Acer rubrum</i>	50	YES	FAC
<i>Fagus grandifolia</i>	20	YES	FACU
Total Cover: 100			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Fagus grandifolia</i>	30	YES	FACU
Total Cover: 30			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover: 0			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Maianthemum canadense</i>	30	YES	FACU
<i>Pteridium aquilinum</i>	10	NO	FACU
<i>Dryopteris sp.</i>	40	YES	NONE
<i>Coptis trifolia</i>	20	YES	FACW
<i>Lycopodium dendroideum</i>	10	NO	NONE
Total Cover: 110			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover: 0			

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>7</u> (B) Percent of Dominant Species that are OBL, FACW, or FAC: <u>29</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Total % Cover of:</td> <td style="width: 40%;">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>20</u></td> <td>x 2 = <u>40</u></td> </tr> <tr> <td>FAC Species: <u>50</u></td> <td>x 3 = <u>150</u></td> </tr> <tr> <td>FACU Species: <u>120</u></td> <td>x 4 = <u>480</u></td> </tr> <tr> <td>UPL Species: <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>190</u> (A)</td> <td><u>670</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = <u>3.53</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: <u>0</u>	x 1 = <u>0</u>	FACW Species: <u>20</u>	x 2 = <u>40</u>	FAC Species: <u>50</u>	x 3 = <u>150</u>	FACU Species: <u>120</u>	x 4 = <u>480</u>	UPL Species: <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>190</u> (A)	<u>670</u> (B)	Prevalence Index = B/A = <u>3.53</u>	
Total % Cover of:	Multiply by:																
OBL Species: <u>0</u>	x 1 = <u>0</u>																
FACW Species: <u>20</u>	x 2 = <u>40</u>																
FAC Species: <u>50</u>	x 3 = <u>150</u>																
FACU Species: <u>120</u>	x 4 = <u>480</u>																
UPL Species: <u>0</u>	x 5 = <u>0</u>																
Column Totals: <u>190</u> (A)	<u>670</u> (B)																
Prevalence Index = B/A = <u>3.53</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
1-7	10YR 3/3	100		0		None	SILT LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils³ <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
---	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Remarks:	

Photos	
	
Photo Name: DE1NW005_20120718_UPL1NE.jpg	Note: DE-1N-W005-UPL1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Constitution Milepost 83.76 City/County: Delaware Sampling Date: 2012/08/20
Applicant/Owner: Williams State: NY Sampling Point: DE-1N-W156A-WET1
Investigator(s): DO, DP USGS Quad: Davenport Section, Township, Range: Davenport
Landform: Bottom land swamp Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 0
Subregion: Middle Atlantic Latitude: 42.456441 Longitude: -74.82791 Datum: NAD1983
Soil Map Unit Name: Norchip silt loam NWI Classification: PFO4/1E

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: <u>PFO</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input checked="" type="checkbox"/> Surface Water (A1) | <input checked="" type="checkbox"/> Water Stained Leaves (B9) |
| <input checked="" type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input checked="" type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input checked="" type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☒ Yes ☐ No Depth (inches): 2
Water Table Present: ☒ Yes ☐ No Depth (inches): 0
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Acer rubrum</i>	70	YES	FAC
<i>Tsuga canadensis</i>	30	YES	FACU
Total Cover: 100			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover: 0			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Vaccinium corymbosum</i>	20	YES	FACW
Total Cover: 20			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Osmunda cinnamomea</i>	70	YES	FACW
<i>Sphagnum sp.</i>	20	YES	NONE
Total Cover: 90			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover: 0			

Dominance Test Worksheet: Number of Dominant Species that are OBL, FACW, or FAC: 3 (A) Total Number of Dominant Species Across All Strata: 5 (B) Percent of Dominant Species that are OBL, FACW, or FAC: 60 (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: 0</td> <td>x 1 = 0</td> </tr> <tr> <td>FACW Species: 90</td> <td>x 2 = 180</td> </tr> <tr> <td>FAC Species: 70</td> <td>x 3 = 210</td> </tr> <tr> <td>FACU Species: 30</td> <td>x 4 = 120</td> </tr> <tr> <td>UPL Species: 0</td> <td>x 5 = 0</td> </tr> <tr> <td>Column Totals: 190 (A)</td> <td>510 (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = 2.68</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: 0	x 1 = 0	FACW Species: 90	x 2 = 180	FAC Species: 70	x 3 = 210	FACU Species: 30	x 4 = 120	UPL Species: 0	x 5 = 0	Column Totals: 190 (A)	510 (B)	Prevalence Index = B/A = 2.68	
Total % Cover of:	Multiply by:																
OBL Species: 0	x 1 = 0																
FACW Species: 90	x 2 = 180																
FAC Species: 70	x 3 = 210																
FACU Species: 30	x 4 = 120																
UPL Species: 0	x 5 = 0																
Column Totals: 190 (A)	510 (B)																
Prevalence Index = B/A = 2.68																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-12		0		0			ORGANIC	
12-20	Gley 1 4/10Y	100		0			SANDY CLAY LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input checked="" type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils³ <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
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³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks:	

Photos	
<div data-bbox="461 548 1089 1018" data-label="Image"> </div> <div data-bbox="66 1024 670 1058" data-label="Text"> Photo Name: DE1NW156A_20120820_WET1N.jpg </div> <div data-bbox="820 1024 1122 1058" data-label="Text"> Note: DE-1N-W156-WET1 </div>	

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Constitution Milepost 83.78 City/County: Delaware Sampling Date: 2012/08/20
Applicant/Owner: Williams State: NY Sampling Point: DE-1N-W156A-UPL1
Investigator(s): DO, DP USGS Quad: Davenport Section, Township, Range: Davenport
Landform: None Local Relief: ☐ Concave ☒ Convex ☐ None Slope (%): 2
Subregion: Middle Atlantic Latitude: 42.456318 Longitude: -74.82772 Datum: NAD1983
Soil Map Unit Name: Norchip silt loam NWI Classification: Not mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is the Sampled Area within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Remarks: <u>Upland</u>	
Field Wetland Classification:	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☐ Yes ☒ No Depth (inches):

Wetland Hydrology Present? ☐ Yes ☒ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Tsuga canadensis</i>	40	YES	FACU
<i>Acer saccharum</i>	15	NO	FACU
<i>Acer rubrum</i>	15	NO	FAC
<i>Betula papyrifera</i>	10	NO	FACU
<i>Betula alleghaniensis</i>	10	NO	FAC
<i>Prunus serotina</i>	10	NO	FACU
Total Cover: 100			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Fagus grandifolia</i>	10	YES	FACU
<i>Acer saccharum</i>	5	YES	FACU
<i>Acer pensylvanicum</i>	5	YES	FACU
Total Cover: 20			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover: 0			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover: 0			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover: 0			

Dominance Test Worksheet: Number of Dominant Species that are OBL, FACW, or FAC: 0 (A) Total Number of Dominant Species Across All Strata: 4 (B) Percent of Dominant Species that are OBL, FACW, or FAC: 0 (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Total % Cover of:</td> <td style="width: 40%;">Multiply by:</td> </tr> <tr> <td>OBL Species: 0</td> <td>x 1 = 0</td> </tr> <tr> <td>FACW Species: 0</td> <td>x 2 = 0</td> </tr> <tr> <td>FAC Species: 25</td> <td>x 3 = 75</td> </tr> <tr> <td>FACU Species: 95</td> <td>x 4 = 380</td> </tr> <tr> <td>UPL Species: 0</td> <td>x 5 = 0</td> </tr> <tr> <td>Column Totals: 120 (A)</td> <td>455 (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = 3.79</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: 0	x 1 = 0	FACW Species: 0	x 2 = 0	FAC Species: 25	x 3 = 75	FACU Species: 95	x 4 = 380	UPL Species: 0	x 5 = 0	Column Totals: 120 (A)	455 (B)	Prevalence Index = B/A = 3.79	
Total % Cover of:	Multiply by:																
OBL Species: 0	x 1 = 0																
FACW Species: 0	x 2 = 0																
FAC Species: 25	x 3 = 75																
FACU Species: 95	x 4 = 380																
UPL Species: 0	x 5 = 0																
Column Totals: 120 (A)	455 (B)																
Prevalence Index = B/A = 3.79																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-12	7.5YR 4/6	100		0			CLAY LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils³ <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
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³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Remarks:	

Photos	
	
Photo Name: DE1NW156A_20120820_UPL1SE.jpg	Note: DE-1N-W156-UPL1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Constitution Milepost 88.46 City/County: Delaware Sampling Date: 2012/08/06
Applicant/Owner: Williams State: NY Sampling Point: DE-1P-W128-WET1
Investigator(s): AM,RZ USGS Quad: Davenport Section, Township, Range: Harpersfield
Landform: _____ Local Relief: ☐ Concave ☐ Convex ☐ None Slope (%): _____
Subregion: Middle Atlantic Latitude: 42.493556 Longitude: -74.75637 Datum: NAD1983
Soil Map Unit Name: Willdin channery silt loam, 2 to 8 percent slopes NWI Classification: Not mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: PSS	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input checked="" type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches): _____
Water Table Present: ☐ Yes ☒ No Depth (inches): _____
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover: 0			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Acer rubrum</i>	10	YES	FAC
Total Cover: 10			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Viburnum dentatum</i>	15	YES	FAC
<i>Vaccinium corymbosum</i>	30	YES	FACW
<i>Spiraea alba</i>	30	YES	FACW
Total Cover: 75			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Solidago gigantea</i>	80	YES	FACW
<i>Euthamia caroliniana</i>	10	NO	FAC
Total Cover: 90			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover: 0			

Dominance Test Worksheet: Number of Dominant Species that are OBL, FACW, or FAC: <u>5</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>100</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <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>140</u></td> <td>x 2 = <u>280</u></td> </tr> <tr> <td>FAC Species: <u>35</u></td> <td>x 3 = <u>105</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>175</u> (A)</td> <td><u>385</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>2.20</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: <u>0</u>	x 1 = <u>0</u>	FACW Species: <u>140</u>	x 2 = <u>280</u>	FAC Species: <u>35</u>	x 3 = <u>105</u>	FACU Species: <u>0</u>	x 4 = <u>0</u>	UPL Species: <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>175</u> (A)	<u>385</u> (B)	Prevalence Index = B/A = <u>2.20</u>	
Total % Cover of:	Multiply by:																
OBL Species: <u>0</u>	x 1 = <u>0</u>																
FACW Species: <u>140</u>	x 2 = <u>280</u>																
FAC Species: <u>35</u>	x 3 = <u>105</u>																
FACU Species: <u>0</u>	x 4 = <u>0</u>																
UPL Species: <u>0</u>	x 5 = <u>0</u>																
Column Totals: <u>175</u> (A)	<u>385</u> (B)																
Prevalence Index = B/A = <u>2.20</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-7	7.5YR3/2	100		0			SILT LOAM	
7-15	7.5YR4/2	91	7.5YR 5/6	7	C	M	SILT LOAM	7.5YR 5/1 2% C,M

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils³ <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input checked="" type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
--	---

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks:	

Photos	
<div data-bbox="461 548 1089 1020" data-label="Image"> </div> <div data-bbox="66 1024 1485 1062"> <div>Photo Name: DE1P_W128_12-08-06_WET1S.jpg</div> <div>Note: DE-1P-W128-WET1</div> </div>	

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Constitution Milepost 88.49 City/County: Delaware Sampling Date: 2012/08/06
Applicant/Owner: Williams State: NY Sampling Point: DE-1P-W128-WET2
Investigator(s): JM,RZ USGS Quad: Davenport Section, Township, Range: Harpersfield
Landform: _____ Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): _____
Subregion: Middle Atlantic Latitude: 42.493052 Longitude: -74.75460 Datum: NAD1983
Soil Map Unit Name: Willdin channery silt loam, 2 to 8 percent slopes NWI Classification: Not mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: <u>PFO</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input checked="" type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input checked="" type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input checked="" type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches): _____
Water Table Present: ☐ Yes ☒ No Depth (inches): _____
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Acer rubrum</i>	90	YES	FAC
<i>Betula alleghaniensis</i>	5	NO	FAC
Total Cover: 95			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover: 0			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Vaccinium corymbosum</i>	25	YES	FACW
Total Cover: 25			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Carex crinita</i>	5	NO	OBL
<i>Sphagnum sp.</i>	15	YES	OBL
<i>Solidago gigantea</i>	25	YES	FACW
Total Cover: 45			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover: 0			

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</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Total % Cover of:</td> <td style="width: 20%;"></td> <td style="width: 20%;">Multiply by:</td> </tr> <tr> <td>OBL Species:</td> <td><u>20</u></td> <td>x 1 = <u>20</u></td> </tr> <tr> <td>FACW Species:</td> <td><u>50</u></td> <td>x 2 = <u>100</u></td> </tr> <tr> <td>FAC Species:</td> <td><u>95</u></td> <td>x 3 = <u>285</u></td> </tr> <tr> <td>FACU Species:</td> <td><u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL Species:</td> <td><u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals:</td> <td><u>165</u> (A)</td> <td><u>405</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A =</td> <td><u>2.45</u></td> </tr> </table>	Total % Cover of:		Multiply by:	OBL Species:	<u>20</u>	x 1 = <u>20</u>	FACW Species:	<u>50</u>	x 2 = <u>100</u>	FAC Species:	<u>95</u>	x 3 = <u>285</u>	FACU Species:	<u>0</u>	x 4 = <u>0</u>	UPL Species:	<u>0</u>	x 5 = <u>0</u>	Column Totals:	<u>165</u> (A)	<u>405</u> (B)	Prevalence Index = B/A =		<u>2.45</u>
Total % Cover of:		Multiply by:																							
OBL Species:	<u>20</u>	x 1 = <u>20</u>																							
FACW Species:	<u>50</u>	x 2 = <u>100</u>																							
FAC Species:	<u>95</u>	x 3 = <u>285</u>																							
FACU Species:	<u>0</u>	x 4 = <u>0</u>																							
UPL Species:	<u>0</u>	x 5 = <u>0</u>																							
Column Totals:	<u>165</u> (A)	<u>405</u> (B)																							
Prevalence Index = B/A =		<u>2.45</u>																							
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																								
Remarks:																									

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-10	7.5YR 4/2	91	7.5YR 5/6	7	C	M	SILT LOAM	7.5YR5/1 D,M 2%

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils³ <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input checked="" type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
--	---

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks:	

Photos	
	
Photo Name: DE1P_W128_12-08-06_WET2S.jpg	Note: DE-1P-W128-WET2

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Constitution Milepost 88.23 City/County: Delaware Sampling Date: 2012/08/06
Applicant/Owner: Williams State: NY Sampling Point: DE-1P-W128-WET3
Investigator(s): AM,RZ USGS Quad: Davenport Section, Township, Range: Harpersfield
Landform: _____ Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): _____
Subregion: Middle Atlantic Latitude: 42.490622 Longitude: -74.75875 Datum: NAD1983
Soil Map Unit Name: Willdin channery silt loam, 2 to 8 percent slopes NWI Classification: Not mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: <u>PEM</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input checked="" type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches): _____
Water Table Present: ☐ Yes ☒ No Depth (inches): _____
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover: 0			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover: 0			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover: 0			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Carex vulpinoidea</i>	15	YES	OBL
<i>Scirpus atrocinctus</i>	20	YES	OBL
<i>Scirpus cyperinus</i>	5	NO	OBL
<i>Juncus effusus</i>	5	NO	OBL
<i>Phalaris arundinacea</i>	5	NO	FACW
<i>Euthamia graminifolia</i>	10	NO	FAC
Total Cover: 60			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover: 0			

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</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: <u>45</u></td> <td>x 1 = <u>45</u></td> </tr> <tr> <td>FACW Species: <u>5</u></td> <td>x 2 = <u>10</u></td> </tr> <tr> <td>FAC Species: <u>10</u></td> <td>x 3 = <u>30</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>60</u> (A)</td> <td><u>85</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = <u>1.42</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: <u>45</u>	x 1 = <u>45</u>	FACW Species: <u>5</u>	x 2 = <u>10</u>	FAC Species: <u>10</u>	x 3 = <u>30</u>	FACU Species: <u>0</u>	x 4 = <u>0</u>	UPL Species: <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>60</u> (A)	<u>85</u> (B)	Prevalence Index = B/A = <u>1.42</u>	
Total % Cover of:	Multiply by:																
OBL Species: <u>45</u>	x 1 = <u>45</u>																
FACW Species: <u>5</u>	x 2 = <u>10</u>																
FAC Species: <u>10</u>	x 3 = <u>30</u>																
FACU Species: <u>0</u>	x 4 = <u>0</u>																
UPL Species: <u>0</u>	x 5 = <u>0</u>																
Column Totals: <u>60</u> (A)	<u>85</u> (B)																
Prevalence Index = B/A = <u>1.42</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-4	7.5YR3/2	100		0			SILT LOAM	
4-15	7.5YR4/2	91	10YR 5/6	7	C	M	SILT LOAM	7.5YR 5/1 D,M 2%

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils³ <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
--	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks: 	

Photos	
	
Photo Name: DE1P_W128_12-08-06_WET3S.jpg	Note: DE-1P-W128-WET3

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Constitution Milepost 88.49 City/County: Delaware Sampling Date: 2012/08/06
Applicant/Owner: Williams State: NY Sampling Point: DE-1P-W128-UPL1
Investigator(s): AM,RZ USGS Quad: Davenport Section, Township, Range: Harpersfield
Landform: _____ Local Relief: ☐ Concave ☒ Convex ☐ None Slope (%): _____
Subregion: Middle Atlantic Latitude: 42.493948 Longitude: -74.75613 Datum: NAD1983
Soil Map Unit Name: Ontusia channery silt loam, 3 to 8 percent slopes NWI Classification: Not mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is the Sampled Area within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Remarks: <u>UPL</u>	
Field Wetland Classification:	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches): _____
Water Table Present: ☐ Yes ☒ No Depth (inches): _____
Saturation Present: ☐ Yes ☒ No Depth (inches): _____

Wetland Hydrology Present? ☐ Yes ☒ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Prunus serotina</i>	10	NO	FACU
<i>Acer rubrum</i>	20	YES	FAC
<i>Acer saccharum</i>	25	YES	FACU
Total Cover: 55			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Acer saccharum</i>	20	YES	FACU
Total Cover: 20			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Vaccinium corymbosum</i>	15	YES	FACW
<i>Prunus serotina</i>	5	YES	FACU
Total Cover: 20			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Maianthemum canadense</i>	85	YES	FACU
Total Cover: 85			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover: 0			

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>6</u> (B) Percent of Dominant Species that are OBL, FACW, or FAC: <u>33</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <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>15</u></td> <td>x 2 = <u>30</u></td> </tr> <tr> <td>FAC Species: <u>20</u></td> <td>x 3 = <u>60</u></td> </tr> <tr> <td>FACU Species: <u>145</u></td> <td>x 4 = <u>580</u></td> </tr> <tr> <td>UPL Species: <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>180</u> (A)</td> <td><u>670</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>3.72</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: <u>0</u>	x 1 = <u>0</u>	FACW Species: <u>15</u>	x 2 = <u>30</u>	FAC Species: <u>20</u>	x 3 = <u>60</u>	FACU Species: <u>145</u>	x 4 = <u>580</u>	UPL Species: <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>180</u> (A)	<u>670</u> (B)	Prevalence Index = B/A = <u>3.72</u>	
Total % Cover of:	Multiply by:																
OBL Species: <u>0</u>	x 1 = <u>0</u>																
FACW Species: <u>15</u>	x 2 = <u>30</u>																
FAC Species: <u>20</u>	x 3 = <u>60</u>																
FACU Species: <u>145</u>	x 4 = <u>580</u>																
UPL Species: <u>0</u>	x 5 = <u>0</u>																
Column Totals: <u>180</u> (A)	<u>670</u> (B)																
Prevalence Index = B/A = <u>3.72</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-5	7.5YR3/2	100		0			SILT LOAM	
5-20	7.5YR5/4	100		0			SILT LOAM	


¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils³ <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input checked="" type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
---	---

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Remarks: 	

Photos	
	
Photo Name: DE1P_W128_12-08-06_UPL1N.jpg	Note: DE-1P-W128-UPL1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Constitution Milepost 73.12 City/County: Delaware Sampling Date: 2012/07/28
Applicant/Owner: Williams State: NY Sampling Point: DE-1W-W127-WET1
Investigator(s): CH, JM USGS Quad: Oneonta Section, Township, Range: Davenport
Landform: _____ Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 10
Subregion: Middle Atlantic Latitude: 42.423607 Longitude: -75.02015 Datum: NAD1983
Soil Map Unit Name: Vly channery silt loam, 8 to 15 percent slopes NWI Classification: Not mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: <u>PEM</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input checked="" type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches): _____
Water Table Present: ☐ Yes ☒ No Depth (inches): _____
Saturation Present: ☒ Yes ☐ No Depth (inches): 2

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover: 0			
Sapling Stratum			
Plot Size: feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover: 0			
Shrub Stratum			
Plot Size: feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover: 0			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Scirpus cyperinus</i>	15	NO	OBL
<i>Scirpus atrovirens</i>	25	YES	OBL
<i>Euthamia graminifolia</i>	15	NO	FAC
<i>Solidago gigantea</i>	30	YES	FACW
<i>Phleum pratense</i>	5	NO	FACU
Total Cover: 90			
Vine Stratum			
Plot Size: feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover: 0			

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</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: <u>40</u></td> <td>x 1 = <u>40</u></td> </tr> <tr> <td>FACW Species: <u>30</u></td> <td>x 2 = <u>60</u></td> </tr> <tr> <td>FAC Species: <u>15</u></td> <td>x 3 = <u>45</u></td> </tr> <tr> <td>FACU Species: <u>5</u></td> <td>x 4 = <u>20</u></td> </tr> <tr> <td>UPL Species: <u>5</u></td> <td>x 5 = <u>25</u></td> </tr> <tr> <td>Column Totals: <u>95</u> (A)</td> <td><u>190</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = <u>2.00</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: <u>40</u>	x 1 = <u>40</u>	FACW Species: <u>30</u>	x 2 = <u>60</u>	FAC Species: <u>15</u>	x 3 = <u>45</u>	FACU Species: <u>5</u>	x 4 = <u>20</u>	UPL Species: <u>5</u>	x 5 = <u>25</u>	Column Totals: <u>95</u> (A)	<u>190</u> (B)	Prevalence Index = B/A = <u>2.00</u>	
Total % Cover of:	Multiply by:																
OBL Species: <u>40</u>	x 1 = <u>40</u>																
FACW Species: <u>30</u>	x 2 = <u>60</u>																
FAC Species: <u>15</u>	x 3 = <u>45</u>																
FACU Species: <u>5</u>	x 4 = <u>20</u>																
UPL Species: <u>5</u>	x 5 = <u>25</u>																
Column Totals: <u>95</u> (A)	<u>190</u> (B)																
Prevalence Index = B/A = <u>2.00</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-7	2.5YR3/1	100		0		None	SILT LOAM	
7-15		0	5YR5/2	3	D	M	SANDY LOAM	
7-15	5YR5/3	87	5YR4/6	10	C	M	SILT LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- | | |
|---|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Stratified Layers (A5) | <input type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sandy Redox (S5) | |
| <input type="checkbox"/> Stripped Matrix (S6) | |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | |

Indicators for Problematic Hydric Soils³

- | |
|--|
| <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) |
| <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) |
| <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) |
| <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) |
| <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) |
| <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| <input checked="" type="checkbox"/> Red Parent Material (F21) |
| <input type="checkbox"/> Very Shallow Dark Surface (TF12) |
| <input type="checkbox"/> Other (Explain in Remarks) |

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? ☒ **Yes** ☐ **No**

Remarks:

Photos

Photo Name: DE1WW127_20120728_WET1_1N.jpg

Note: DE-1W-W127-WET1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Constitution Milepost 73.14 City/County: Delaware Sampling Date: 2012/07/28
Applicant/Owner: Williams State: NY Sampling Point: DE-1W-W127-UPL1
Investigator(s): CH, JM USGS Quad: Oneonta Section, Township, Range: Davenport
Landform: _____ Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 15
Subregion: Middle Atlantic Latitude: 42.423540 Longitude: -75.01987 Datum: NAD1983
Soil Map Unit Name: Vly channery silt loam, 8 to 15 percent slopes NWI Classification: Not mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is the Sampled Area within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Remarks: <u>UPLAND</u>	
Field Wetland Classification:	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches): _____
Water Table Present: ☐ Yes ☒ No Depth (inches): _____
Saturation Present: ☐ Yes ☒ No Depth (inches): _____

Wetland Hydrology Present? ☐ Yes ☒ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Malus sp.</i>	60	YES	UPL
<i>Prunus serotina</i>	20	YES	FACU
<i>Acer rubrum</i>	15	NO	FAC
Total Cover: 95			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover: 0			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Vaccinium corymbosum</i>	10	YES	FACW
Total Cover: 10			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Solidago rugosa</i>	5	YES	FAC
<i>Euthamia graminifolia</i>	15	YES	FAC
<i>Phleum pratense</i>	5	YES	FACU
Total Cover: 25			
Vine Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover: 0			

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>6</u> (B) Percent of Dominant Species that are OBL, FACW, or FAC: <u>50</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <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>10</u></td> <td>x 2 = <u>20</u></td> </tr> <tr> <td>FAC Species: <u>35</u></td> <td>x 3 = <u>105</u></td> </tr> <tr> <td>FACU Species: <u>25</u></td> <td>x 4 = <u>100</u></td> </tr> <tr> <td>UPL Species: <u>60</u></td> <td>x 5 = <u>300</u></td> </tr> <tr> <td>Column Totals: <u>130</u> (A)</td> <td><u>525</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = <u>4.04</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: <u>0</u>	x 1 = <u>0</u>	FACW Species: <u>10</u>	x 2 = <u>20</u>	FAC Species: <u>35</u>	x 3 = <u>105</u>	FACU Species: <u>25</u>	x 4 = <u>100</u>	UPL Species: <u>60</u>	x 5 = <u>300</u>	Column Totals: <u>130</u> (A)	<u>525</u> (B)	Prevalence Index = B/A = <u>4.04</u>	
Total % Cover of:	Multiply by:																
OBL Species: <u>0</u>	x 1 = <u>0</u>																
FACW Species: <u>10</u>	x 2 = <u>20</u>																
FAC Species: <u>35</u>	x 3 = <u>105</u>																
FACU Species: <u>25</u>	x 4 = <u>100</u>																
UPL Species: <u>60</u>	x 5 = <u>300</u>																
Column Totals: <u>130</u> (A)	<u>525</u> (B)																
Prevalence Index = B/A = <u>4.04</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-5	5YR3/2	100		0		None	SILT LOAM	
5-15	5YR4/4	100		0		None	SILT LOAM	


¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils³ <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
---	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Remarks:	

Photos	
	
Photo Name: DE1WW127_20120728_UPL1_1N.jpg	Note: DE-1W-W127-UPL1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Constitution Milepost 88.89 City/County: Delaware Sampling Date: 2012/08/06
Applicant/Owner: Williams State: NY Sampling Point: DE-1W-W129-WET1
Investigator(s): JM, RZ USGS Quad: Harpersfield Section, Township, Range: Harpersfield
Landform: _____ Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): _____
Subregion: Middle Atlantic Latitude: 42.496621 Longitude: -74.74874 Datum: NAD1983
Soil Map Unit Name: Willdin channery silt loam, 2 to 8 percent slopes NWI Classification: Not mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☒ Soil ☒ or Hydrology ☐ naturally problematic? ☐ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: <u>PFO</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input checked="" type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input checked="" type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches): _____
Water Table Present: ☐ Yes ☒ No Depth (inches): _____
Saturation Present: ☒ Yes ☐ No Depth (inches): _____

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Acer rubrum</i>	25	YES	FAC
<i>Tsuga canadensis</i>	75	YES	FACU
<i>Betula alleghaniensis</i>	10	NO	FAC
Total Cover: 110			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover: 0			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Tsuga canadensis</i>	5	YES	FACU
Total Cover: 5			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Dryopteris intermedia</i>	20	YES	FAC
Total Cover: 20			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover: 0			

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>4</u> (B) Percent of Dominant Species that are OBL, FACW, or FAC: <u>50</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <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>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>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>135</u> (A)</td> <td><u>485</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>3.59</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>80</u>	x 4 = <u>320</u>	UPL Species: <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>135</u> (A)	<u>485</u> (B)	Prevalence Index = B/A = <u>3.59</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>80</u>	x 4 = <u>320</u>																
UPL Species: <u>0</u>	x 5 = <u>0</u>																
Column Totals: <u>135</u> (A)	<u>485</u> (B)																
Prevalence Index = B/A = <u>3.59</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input checked="" type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																
Remarks: Tsuga canadensis is problematic.																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-8	7.5YR3/2	100		0			SILT LOAM	
8-15	7.5YR4/3	91	7.5YR 5/6	7	C	M	SILT LOAM	7.5YR5/1 C,M 2%

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils³ <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input checked="" type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
---	---

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks: 	

Photos	
<div data-bbox="461 550 1089 1020" data-label="Image"> </div> <div data-bbox="66 1029 669 1060" data-label="Text"> Photo Name: DE1W_W129_12-08-06_WET1W.jpg </div> <div data-bbox="820 1029 1128 1060" data-label="Text"> Note: DE-1W-W129-WET1 </div>	

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Constitution Milepost 88.9 City/County: Delaware Sampling Date: 2012/08/06
Applicant/Owner: Williams State: NY Sampling Point: DE-1W-W129-UPL1
Investigator(s): JM,RZ USGS Quad: Harpersfield Section, Township, Range: Harpersfield
Landform: _____ Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): _____
Subregion: Middle Atlantic Latitude: 42.496771 Longitude: -74.74873 Datum: NAD1983
Soil Map Unit Name: Willdin channery silt loam, 2 to 8 percent slopes NWI Classification: Not mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is the Sampled Area within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Remarks: <u>UPL</u>	
Field Wetland Classification:	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches): _____
Water Table Present: ☐ Yes ☒ No Depth (inches): _____
Saturation Present: ☐ Yes ☒ No Depth (inches): _____

Wetland Hydrology Present? ☐ Yes ☒ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Tsuga canadensis</i>	75	YES	FACU
<i>Acer rubrum</i>	15	NO	FAC
Total Cover: 90			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover: 0			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Tsuga canadensis</i>	5	YES	FACU
<i>Fagus grandifolia</i>	5	YES	FACU
Total Cover: 10			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Dryopteris marginalis</i>	75	YES	FACU
<i>Lycopodium lagopus</i>	15	NO	FACU
Total Cover: 90			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover: 0			

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>4</u> (B) Percent of Dominant Species that are OBL, FACW, or FAC: <u>0</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Total % Cover of:</td> <td style="width: 40%;">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>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC Species: <u>15</u></td> <td>x 3 = <u>45</u></td> </tr> <tr> <td>FACU Species: <u>175</u></td> <td>x 4 = <u>700</u></td> </tr> <tr> <td>UPL Species: <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>190</u> (A)</td> <td><u>745</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = <u>3.92</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>15</u>	x 3 = <u>45</u>	FACU Species: <u>175</u>	x 4 = <u>700</u>	UPL Species: <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>190</u> (A)	<u>745</u> (B)	Prevalence Index = B/A = <u>3.92</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>15</u>	x 3 = <u>45</u>																
FACU Species: <u>175</u>	x 4 = <u>700</u>																
UPL Species: <u>0</u>	x 5 = <u>0</u>																
Column Totals: <u>190</u> (A)	<u>745</u> (B)																
Prevalence Index = B/A = <u>3.92</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-2	7.5YR3/2	100		0			SILT LOAM	DUFF LAYER
1-0		0		0			ORGANIC	
2-15	7.5YR4/4	100		0			SILT LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- | | |
|---|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Stratified Layers (A5) | <input type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sandy Redox (S5) | |
| <input type="checkbox"/> Stripped Matrix (S6) | |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | |

Indicators for Problematic Hydric Soils³

- | |
|--|
| <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) |
| <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) |
| <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) |
| <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) |
| <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) |
| <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| <input type="checkbox"/> Red Parent Material (F21) |
| <input type="checkbox"/> Very Shallow Dark Surface (TF12) |
| <input type="checkbox"/> Other (Explain in Remarks) |

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? ☐ Yes ☒ No

Remarks:

Photos

Photo Name: DE1W_W129_12-08-06_UPL1NE.jpg

Note: DE-1W-W129-UPL1

OTSEGO COUNTY

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost City/County: Otsego Sampling Date: 2013/10/22
Applicant/Owner: Williams State: NY Sampling Point: OT-1C-W001-WET1
Investigator(s): RR;KH USGS Quad: West Davenport Section, Township, Range:
Landform: Depression Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 0
Subregion: Middle Atlantic Latitude: 42.472838 Longitude: -74.98855 Datum: NAD 1988
Soil Map Unit Name: Chenango gravelly silt loam, 3 to 8 percent slopes NWI Classification: Not Mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: <u>PEM</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|--|
| <input checked="" type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input checked="" type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☒ Yes ☐ No Depth (inches): 2
Water Table Present: ☐ Yes ☒ No Depth (inches): 0
Saturation Present: ☐ Yes ☒ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Typha angustifolia</i>	35	YES	OBL
<i>Scirpus cyperinus</i>	30	YES	OBL
<i>Juncus effusus</i>	15	NO	OBL
<i>Euthamia graminifolia</i>	10	NO	FAC
<i>Phalaris arundinacea</i>	5	NO	FACW
Total Cover: 95			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: <u>80</u></td> <td>x 1 = <u>80</u></td> </tr> <tr> <td>FACW Species: <u>5</u></td> <td>x 2 = <u>10</u></td> </tr> <tr> <td>FAC Species: <u>10</u></td> <td>x 3 = <u>30</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>95</u> (A)</td> <td><u>120</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = <u>1.26</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: <u>80</u>	x 1 = <u>80</u>	FACW Species: <u>5</u>	x 2 = <u>10</u>	FAC Species: <u>10</u>	x 3 = <u>30</u>	FACU Species: <u>0</u>	x 4 = <u>0</u>	UPL Species: <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>95</u> (A)	<u>120</u> (B)	Prevalence Index = B/A = <u>1.26</u>	
Total % Cover of:	Multiply by:																
OBL Species: <u>80</u>	x 1 = <u>80</u>																
FACW Species: <u>5</u>	x 2 = <u>10</u>																
FAC Species: <u>10</u>	x 3 = <u>30</u>																
FACU Species: <u>0</u>	x 4 = <u>0</u>																
UPL Species: <u>0</u>	x 5 = <u>0</u>																
Column Totals: <u>95</u> (A)	<u>120</u> (B)																
Prevalence Index = B/A = <u>1.26</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-12	5Y 4/2	98	10YR 4/6	2	C	PL	SANDY LOAM	40% Gravel

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
--	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks: Auger refusal @12"	

Photos	
	
Photo Name: OT1CW001_102213_WET1W.jpg	Note: OT-1C-W001-WET1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost City/County: Otsego Sampling Date: 2013/10/22
Applicant/Owner: Williams State: NY Sampling Point: OT-1C-W001-UPL1
Investigator(s): RR;KH USGS Quad: West Davenport Section, Township, Range:
Landform: Hillslope Local Relief: ☐ Concave ☐ Convex ☒ None Slope (%): 30
Subregion: Middle Atlantic Latitude: 42.472895 Longitude: -74.98861 Datum: NAD 1988
Soil Map Unit Name: Chenango gravelly silt loam, 3 to 8 percent slopes NWI Classification: Not Mapped

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? ☐ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is the Sampled Area within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Remarks: <u>Upland plot. Within open field.</u>	
Field Wetland Classification: <u> </u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☐ Yes ☒ No Depth (inches):

Wetland Hydrology Present? ☐ Yes ☒ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Dactylis glomerata</i>	20	YES	FACU
<i>Phleum pratense</i>	20	YES	FACU
<i>Trifolium pratense</i>	10	NO	FACU
<i>Galium mollugo</i>	10	NO	UPL
<i>Euthamia graminifolia</i>	10	NO	FAC
<i>Plantago major</i>	5	NO	FACU
<i>Symphotrichum lanceolatum</i>	5	NO	FACW
<i>Bromus sp.</i>	20	YES	NONE
Total Cover: 100			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

Dominance Test Worksheet: Number of Dominant Species that are OBL, FACW, or FAC: 0 (A) Total Number of Dominant Species Across All Strata: 3 (B) Percent of Dominant Species that are OBL, FACW, or FAC: 0 (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: 0</td> <td>x 1 = 0</td> </tr> <tr> <td>FACW Species: 5</td> <td>x 2 = 10</td> </tr> <tr> <td>FAC Species: 10</td> <td>x 3 = 30</td> </tr> <tr> <td>FACU Species: 55</td> <td>x 4 = 220</td> </tr> <tr> <td>UPL Species: 10</td> <td>x 5 = 50</td> </tr> <tr> <td>Column Totals: 80 (A)</td> <td>310 (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = 3.88</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: 0	x 1 = 0	FACW Species: 5	x 2 = 10	FAC Species: 10	x 3 = 30	FACU Species: 55	x 4 = 220	UPL Species: 10	x 5 = 50	Column Totals: 80 (A)	310 (B)	Prevalence Index = B/A = 3.88	
Total % Cover of:	Multiply by:																
OBL Species: 0	x 1 = 0																
FACW Species: 5	x 2 = 10																
FAC Species: 10	x 3 = 30																
FACU Species: 55	x 4 = 220																
UPL Species: 10	x 5 = 50																
Column Totals: 80 (A)	310 (B)																
Prevalence Index = B/A = 3.88																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-18	2.5Y 4/4					None	SANDY LOAM	30% Gravel

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
³ Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.	

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Remarks:	

Photos	
	
Photo Name: OT1CW001_102213_UPL1N.jpg	Note: OT-1C-W001-UPL1

SCHOHARIE COUNTY

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 118.67 City/County: Schoharie Sampling Date: 2013/12/06
Applicant/Owner: Williams State: NY Sampling Point: SC-1A-W160A-WET1
Investigator(s): PL;KH USGS Quad: Schoharie Section, Township, Range: Schoharie
Landform: Drainageway Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 2
Subregion: Middle Atlantic Latitude: 42.708696 Longitude: -74.29724 Datum: NAD 1983
Soil Map Unit Name: Mohawk and Honeoye silt loams, 10 to 20 percent slopes NWI Classification: Not Mapped

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? ☐ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: <u>veg disturbance due to cleared path</u>	
Field Wetland Classification: <u>PFO</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input checked="" type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input checked="" type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Pinus strobus</i>	35	YES	FACU
Total Cover: 35			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Cornus racemosa</i>	20	YES	FAC
<i>Viburnum recognitum</i>	5	NO	NONE
<i>Lonicera sp</i>	12	YES	FAC
Total Cover: 37			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Onoclea sensibilis</i>	65	YES	FACW
Total Cover: 65			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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>4</u> (B) Percent of Dominant Species that are OBL, FACW, or FAC: <u>75</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <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>65</u></td> <td>x 2 = <u>130</u></td> </tr> <tr> <td>FAC Species: <u>32</u></td> <td>x 3 = <u>96</u></td> </tr> <tr> <td>FACU Species: <u>35</u></td> <td>x 4 = <u>140</u></td> </tr> <tr> <td>UPL Species: <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>132</u> (A)</td> <td><u>366</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.77</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: <u>0</u>	x 1 = <u>0</u>	FACW Species: <u>65</u>	x 2 = <u>130</u>	FAC Species: <u>32</u>	x 3 = <u>96</u>	FACU Species: <u>35</u>	x 4 = <u>140</u>	UPL Species: <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>132</u> (A)	<u>366</u> (B)	Prevalence Index = B/A = <u>2.77</u>	
Total % Cover of:	Multiply by:																
OBL Species: <u>0</u>	x 1 = <u>0</u>																
FACW Species: <u>65</u>	x 2 = <u>130</u>																
FAC Species: <u>32</u>	x 3 = <u>96</u>																
FACU Species: <u>35</u>	x 4 = <u>140</u>																
UPL Species: <u>0</u>	x 5 = <u>0</u>																
Column Totals: <u>132</u> (A)	<u>366</u> (B)																
Prevalence Index = B/A = <u>2.77</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) <small>¹Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.</small>	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-5	2.5Y 3/2	100					FINE SANDY LOAM	
5-16	2.5Y 4/1	90	10YR 3/4	10	C	PL	FINE SANDY LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
--	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks: 	

Photos	
	
Photo Name: SC1AW160A_120613_WET1NW.jpg	Note: SC-1A-W160A-WET1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 118.66 City/County: Schoharie Sampling Date: 2013/12/06
Applicant/Owner: Williams State: NY Sampling Point: SC-1A-W160A-UPL1
Investigator(s): PL;KH USGS Quad: Schoharie Section, Township, Range: Schoharie
Landform: Sideslope Local Relief: ☐ Concave ☐ Convex ☒ None Slope (%): 5
Subregion: Middle Atlantic Latitude: 42.708657 Longitude: -74.29738 Datum: NAD 1983
Soil Map Unit Name: Mohawk and Honeoye silt loams, 10 to 20 percent slopes NWI Classification: Not Mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is the Sampled Area within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Remarks: <u>Upland Plot</u>	
Field Wetland Classification:	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☐ Yes ☒ No Depth (inches):

Wetland Hydrology Present? ☐ Yes ☒ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Pinus strobus</i>	85	YES	FACU
Total Cover: 85			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Betula nigra</i>	25	YES	FACW
<i>Cornus amomum</i>	8	NO	FACW
<i>Acer saccharum</i>	15	YES	FACU
Total Cover: 48			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Dryopteris intermedia</i>	10	YES	FAC
<i>Pinus strobus</i>	3	NO	FACU
Total Cover: 13			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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>4</u> (B) Percent of Dominant Species that are OBL, FACW, or FAC: <u>50</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <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>33</u></td> <td>x 2 = <u>66</u></td> </tr> <tr> <td>FAC Species: <u>10</u></td> <td>x 3 = <u>30</u></td> </tr> <tr> <td>FACU Species: <u>103</u></td> <td>x 4 = <u>412</u></td> </tr> <tr> <td>UPL Species: <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>146</u> (A)</td> <td><u>508</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>3.48</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: <u>0</u>	x 1 = <u>0</u>	FACW Species: <u>33</u>	x 2 = <u>66</u>	FAC Species: <u>10</u>	x 3 = <u>30</u>	FACU Species: <u>103</u>	x 4 = <u>412</u>	UPL Species: <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>146</u> (A)	<u>508</u> (B)	Prevalence Index = B/A = <u>3.48</u>	
Total % Cover of:	Multiply by:																
OBL Species: <u>0</u>	x 1 = <u>0</u>																
FACW Species: <u>33</u>	x 2 = <u>66</u>																
FAC Species: <u>10</u>	x 3 = <u>30</u>																
FACU Species: <u>103</u>	x 4 = <u>412</u>																
UPL Species: <u>0</u>	x 5 = <u>0</u>																
Column Totals: <u>146</u> (A)	<u>508</u> (B)																
Prevalence Index = B/A = <u>3.48</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-1	10YR 3/2	100				None	FINE SANDY LOAM	
1-14+	2.5Y 4/4	100				None	FINE SANDY LOAM	


¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
---	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Remarks:	

Photos	
	
Photo Name: SC1AW160A_120613_UPL1W.jpg	Note: SC-1A-W160A-UPL1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 117.91 City/County: Schoharie Sampling Date: 2013/12/30
Applicant/Owner: Williams State: NY Sampling Point: SC-1A-W459-WET1
Investigator(s): PL, RR USGS Quad: Schoharie Section, Township, Range: Schoharie
Landform: Drainageway Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 0
Subregion: Middle Atlantic Latitude: 42.704307 Longitude: -74.31104 Datum: NAD 1983
Soil Map Unit Name: Alluvial land NWI Classification: Not Mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: <u>PEM</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input checked="" type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input checked="" type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☒ Yes ☐ No Depth (inches): 2
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Juniperus virginiana</i>	10	YES	FACU
Total Cover: 10			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Cornus racemosa</i>	20	YES	FAC
Total Cover: 20			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Typha angustifolia</i>	35	YES	OBL
<i>Onoclea sensibilis</i>	10	NO	FACW
<i>Phalaris arundinacea</i>	20	YES	FACW
Total Cover: 65			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

Dominance Test Worksheet: Number of Dominant Species that are OBL, FACW, or FAC: 3 (A) Total Number of Dominant Species Across All Strata: 4 (B) Percent of Dominant Species that are OBL, FACW, or FAC: 75 (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: 35</td> <td>x 1 = 35</td> </tr> <tr> <td>FACW Species: 30</td> <td>x 2 = 60</td> </tr> <tr> <td>FAC Species: 20</td> <td>x 3 = 60</td> </tr> <tr> <td>FACU Species: 10</td> <td>x 4 = 40</td> </tr> <tr> <td>UPL Species: 0</td> <td>x 5 = 0</td> </tr> <tr> <td>Column Totals: 95 (A)</td> <td>195 (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = 2.05</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: 35	x 1 = 35	FACW Species: 30	x 2 = 60	FAC Species: 20	x 3 = 60	FACU Species: 10	x 4 = 40	UPL Species: 0	x 5 = 0	Column Totals: 95 (A)	195 (B)	Prevalence Index = B/A = 2.05	
Total % Cover of:	Multiply by:																
OBL Species: 35	x 1 = 35																
FACW Species: 30	x 2 = 60																
FAC Species: 20	x 3 = 60																
FACU Species: 10	x 4 = 40																
UPL Species: 0	x 5 = 0																
Column Totals: 95 (A)	195 (B)																
Prevalence Index = B/A = 2.05																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	<div style="text-align: center; font-size: 1.2em;"> Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No </div>																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-8	10YR 2/2	100				None	SANDY LOAM	
8-15+	10YR 4/1	95	10YR 4/4	5	C	M	SANDY LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
--	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks: 	

Photos	
<div data-bbox="461 550 1089 1018" data-label="Image"> </div> <div data-bbox="66 1026 1485 1062"> <div> Photo Name: SC1AW459_123013_WET1NW.jpg </div> <div> Note: SC-1A-W459-WET1 </div> </div>	

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 117.91 City/County: Schoharie Sampling Date: 2013/12/30
Applicant/Owner: Williams State: NY Sampling Point: SC-1A-W459-UPL1
Investigator(s): PL, RR USGS Quad: Schoharie Section, Township, Range: Schoharie
Landform: Terrace Local Relief: ☐ Concave ☐ Convex ☒ None Slope (%): 1
Subregion: Middle Atlantic Latitude: 42.704264 Longitude: -74.31089 Datum: NAD 1983
Soil Map Unit Name: Alluvial land NWI Classification: Not Mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is the Sampled Area within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Remarks: <u>Upland Plot</u>	
Field Wetland Classification:	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☐ Yes ☒ No Depth (inches):

Wetland Hydrology Present? ☐ Yes ☒ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Acer saccharum</i>	15	YES	FACU
Total Cover: 15			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Acer saccharum</i>	5	YES	FACU
Total Cover: 5			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Lonicera sp</i>	5	YES	NONE
Total Cover: 5			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Solidago canadensis</i>	60	YES	FACU
Total Cover: 120			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

Dominance Test Worksheet: Number of Dominant Species that are OBL, FACW, or FAC: 0 (A) Total Number of Dominant Species Across All Strata: 5 (B) Percent of Dominant Species that are OBL, FACW, or FAC: 0 (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: 0</td> <td>x 1 = 0</td> </tr> <tr> <td>FACW Species: 0</td> <td>x 2 = 0</td> </tr> <tr> <td>FAC Species: 0</td> <td>x 3 = 0</td> </tr> <tr> <td>FACU Species: 80</td> <td>x 4 = 320</td> </tr> <tr> <td>UPL Species: 0</td> <td>x 5 = 0</td> </tr> <tr> <td>Column Totals: 80 (A)</td> <td>320 (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = 4.00</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: 0	x 1 = 0	FACW Species: 0	x 2 = 0	FAC Species: 0	x 3 = 0	FACU Species: 80	x 4 = 320	UPL Species: 0	x 5 = 0	Column Totals: 80 (A)	320 (B)	Prevalence Index = B/A = 4.00	
Total % Cover of:	Multiply by:																
OBL Species: 0	x 1 = 0																
FACW Species: 0	x 2 = 0																
FAC Species: 0	x 3 = 0																
FACU Species: 80	x 4 = 320																
UPL Species: 0	x 5 = 0																
Column Totals: 80 (A)	320 (B)																
Prevalence Index = B/A = 4.00																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-20"+	10YR 2/2	100				None	FINE SANDY LOAM	5-6' in Elevation higher than wetland

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
³ Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.	

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Remarks: Potential old fill	

Photos	
	
Photo Name: SC1AW459_123013_UPL1N.jpg	Note: SC-1A-W459-UPL1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 97.78643 City/County: Schoharie Sampling Date: 2014/05/08
Applicant/Owner: Williams State: NY Sampling Point: SC-1A-W460-WET1
Investigator(s): RR;KH USGS Quad: Charlotteville Section, Township, Range: Jefferson
Landform: Floodplain Local Relief: ☐ Concave ☐ Convex ☒ None Slope (%): 1
Subregion: Middle Atlantic Latitude: 42.537409 Longitude: -74.63937 Datum: NAD 1983
Soil Map Unit Name: Chippewa and Norwich very stony soils, 0 to 15 percent slopes NWI Classification: Not mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: <u>PFO</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input checked="" type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Tsuga canadensis</i>	30	YES	FAC
<i>Betula alleghaniensis</i>	30	YES	FAC
<i>Acer rubrum</i>	10	NO	FAC
Total Cover: 70			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Tsuga canadensis</i>	5	YES	FAC
Total Cover: 5			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Veratrum virginicum</i>	5	NO	FACW
<i>Tussilago farfara</i>	10	YES	FACU
<i>Thelypteris palustris</i>	20	YES	FACW
<i>Impatiens capensis</i>	10	YES	FACW
Total Cover: 45			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

Dominance Test Worksheet: Number of Dominant Species that are OBL, FACW, or FAC: <u>5</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species that are OBL, FACW, or FAC: <u>83</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <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>35</u></td> <td>x 2 = <u>70</u></td> </tr> <tr> <td>FAC Species: <u>75</u></td> <td>x 3 = <u>225</u></td> </tr> <tr> <td>FACU Species: <u>10</u></td> <td>x 4 = <u>40</u></td> </tr> <tr> <td>UPL Species: <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>120</u> (A)</td> <td><u>335</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.79</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: <u>0</u>	x 1 = <u>0</u>	FACW Species: <u>35</u>	x 2 = <u>70</u>	FAC Species: <u>75</u>	x 3 = <u>225</u>	FACU Species: <u>10</u>	x 4 = <u>40</u>	UPL Species: <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>120</u> (A)	<u>335</u> (B)	Prevalence Index = B/A = <u>2.79</u>	
Total % Cover of:	Multiply by:																
OBL Species: <u>0</u>	x 1 = <u>0</u>																
FACW Species: <u>35</u>	x 2 = <u>70</u>																
FAC Species: <u>75</u>	x 3 = <u>225</u>																
FACU Species: <u>10</u>	x 4 = <u>40</u>																
UPL Species: <u>0</u>	x 5 = <u>0</u>																
Column Totals: <u>120</u> (A)	<u>335</u> (B)																
Prevalence Index = B/A = <u>2.79</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) <small>¹Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.</small>	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-2	10YR 3/2	97	10YR 3/6	3	C	M	SANDY LOAM	
2-14	10YR 4/2	95	10YR 4/6	5	C	M	SANDY LOAM	
14-20	5Y 4/1	93	10YR 4/6	7	C	M	LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- | | |
|---|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Stratified Layers (A5) | <input checked="" type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sandy Redox (S5) | |
| <input type="checkbox"/> Stripped Matrix (S6) | |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | |

Indicators for Problematic Hydric Soils

- | |
|--|
| <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) |
| <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) |
| <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) |
| <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) |
| <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) |
| <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| <input type="checkbox"/> Red Parent Material (F21) |
| <input type="checkbox"/> Very Shallow Dark Surface (TF12) |
| <input type="checkbox"/> Other (Explain in Remarks) |

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? ☒ **Yes** ☐ **No**

Remarks:

Photos

Photo Name: SC1AW460_041614_WET1NW.jpg

Note: SC-1A-W460-WET1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 97.75781 City/County: Schoharie Sampling Date: 2014/05/08
Applicant/Owner: Williams State: NY Sampling Point: SC-1A-W460-WET2
Investigator(s): RR;KH USGS Quad: Charlotteville Section, Township, Range: Jefferson
Landform: Drainageway Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 3
Subregion: Middle Atlantic Latitude: 42.537012 Longitude: -74.63976 Datum: NAD 1983
Soil Map Unit Name: Chippewa and Norwich very stony soils, 0 to 15 percent slopes NWI Classification: Not mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: <u>PEM</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input checked="" type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input checked="" type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☒ Yes ☐ No Depth (inches): 10
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Juncus effusus</i>	25	YES	OBL
<i>Ranunculus sp</i>	30	YES	FAC
<i>Euthamia graminifolia</i>	5	NO	FAC
<i>Solidago sp</i>	5	NO	FAC
Total Cover: 65			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

Dominance Test Worksheet: Number of Dominant Species that are OBL, FACW, or FAC: 2 (A) Total Number of Dominant Species Across All Strata: 2 (B) Percent of Dominant Species that are OBL, FACW, or FAC: 100 (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Total % Cover of:</td> <td style="width: 40%;">Multiply by:</td> </tr> <tr> <td>OBL Species: 25</td> <td>x 1 = 25</td> </tr> <tr> <td>FACW Species: 0</td> <td>x 2 = 0</td> </tr> <tr> <td>FAC Species: 40</td> <td>x 3 = 120</td> </tr> <tr> <td>FACU Species: 0</td> <td>x 4 = 0</td> </tr> <tr> <td>UPL Species: 0</td> <td>x 5 = 0</td> </tr> <tr> <td>Column Totals: 65 (A)</td> <td>145 (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = 2.23</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: 25	x 1 = 25	FACW Species: 0	x 2 = 0	FAC Species: 40	x 3 = 120	FACU Species: 0	x 4 = 0	UPL Species: 0	x 5 = 0	Column Totals: 65 (A)	145 (B)	Prevalence Index = B/A = 2.23	
Total % Cover of:	Multiply by:																
OBL Species: 25	x 1 = 25																
FACW Species: 0	x 2 = 0																
FAC Species: 40	x 3 = 120																
FACU Species: 0	x 4 = 0																
UPL Species: 0	x 5 = 0																
Column Totals: 65 (A)	145 (B)																
Prevalence Index = B/A = 2.23																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	<div style="text-align: right; font-weight: bold;"> Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No </div>																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-4	2.5Y 4/2	95	10YR 4/6	5	C	PL	FINE SANDY LOAM	
4-18	Gley1 6/10Y	80	2.5Y 4/4	20	C	PL	FINE SANDY LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
--	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks: 	

Photos	
<div data-bbox="480 548 1070 1018" data-label="Image"> </div> <div data-bbox="66 1024 1485 1062"> Photo Name: SC1AW460_050814_WET2N.jpg Note: SC-1A-W460-WET2 </div>	

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 97.76922 City/County: Schoharie Sampling Date: 2014/05/08
Applicant/Owner: Williams State: NY Sampling Point: SC-1A-W460-UPL1
Investigator(s): RR;KH USGS Quad: Charlotteville Section, Township, Range: Jefferson
Landform: Hillside Local Relief: ☐ Concave ☐ Convex ☒ None Slope (%): 20
Subregion: Middle Atlantic Latitude: 42.537033 Longitude: -74.63953 Datum: NAD 1983
Soil Map Unit Name: Chippewa and Norwich very stony soils, 0 to 15 percent slopes NWI Classification: Not mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is the Sampled Area within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Remarks: <u>Upland plot</u>	
Field Wetland Classification:	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☐ Yes ☒ No Depth (inches):

Wetland Hydrology Present? ☐ Yes ☒ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Malus sp</i>	5	NO	UPL
<i>Picea sp</i>	20	YES	FACU
<i>Tsuga canadensis</i>	20	YES	FACU
<i>Acer rubrum</i>	5	NO	FAC
Total Cover: 50			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Erythronium americanum</i>	20	YES	FACU
Total Cover: 20			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

Dominance Test Worksheet: Number of Dominant Species that are OBL, FACW, or FAC: _____ 0 (A) Total Number of Dominant Species Across All Strata: _____ 3 (B) Percent of Dominant Species that are OBL, FACW, or FAC: _____ 0 (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: _____ 0</td> <td>x 1 = _____ 0</td> </tr> <tr> <td>FACW Species: _____ 0</td> <td>x 2 = _____ 0</td> </tr> <tr> <td>FAC Species: _____ 5</td> <td>x 3 = _____ 15</td> </tr> <tr> <td>FACU Species: _____ 60</td> <td>x 4 = _____ 240</td> </tr> <tr> <td>UPL Species: _____ 5</td> <td>x 5 = _____ 25</td> </tr> <tr> <td>Column Totals: _____ 70 (A)</td> <td>_____ 280 (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = _____ 4.00</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: _____ 0	x 1 = _____ 0	FACW Species: _____ 0	x 2 = _____ 0	FAC Species: _____ 5	x 3 = _____ 15	FACU Species: _____ 60	x 4 = _____ 240	UPL Species: _____ 5	x 5 = _____ 25	Column Totals: _____ 70 (A)	_____ 280 (B)	Prevalence Index = B/A = _____ 4.00	
Total % Cover of:	Multiply by:																
OBL Species: _____ 0	x 1 = _____ 0																
FACW Species: _____ 0	x 2 = _____ 0																
FAC Species: _____ 5	x 3 = _____ 15																
FACU Species: _____ 60	x 4 = _____ 240																
UPL Species: _____ 5	x 5 = _____ 25																
Column Totals: _____ 70 (A)	_____ 280 (B)																
Prevalence Index = B/A = _____ 4.00																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-2	2.5Y 3/3	100					LOAM	
2-12	2.5Y 4/4	100					LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
---	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Remarks: 	

Photos	
<div data-bbox="480 548 1068 1018" data-label="Image"> </div> <div data-bbox="66 1024 618 1058" data-label="Text"> Photo Name: SC1AW460_050814_UPL1E.jpg </div> <div data-bbox="820 1024 1115 1058" data-label="Text"> Note: SC-1A-W460-UPL1 </div>	

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 103.6182 City/County: Schoharie Sampling Date: 2014/05/22
Applicant/Owner: Williams State: _____ Sampling Point: SC-1A-W464-WET1
Investigator(s): PL;KH USGS Quad: Summit Section, Township, Range: Summit
Landform: Drainageway Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 3
Subregion: Middle Atlantic Latitude: 42.591322 Longitude: -74.56547 Datum: NAD 1983
Soil Map Unit Name: Lordstown and Oquaga very stony soils, 0 to 35 percent slopes NWI Classification: Not mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: PSS	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input checked="" type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches): _____
Water Table Present: ☐ Yes ☒ No Depth (inches): _____
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Spiraea latifolia</i>	70	YES	FACW
<i>Rubus idaeus</i>	10	NO	FACU
<i>Lonicera morrowii</i>	5	NO	FACU
Total Cover: 85			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Onoclea sensibilis</i>	30	YES	FACW
<i>Rubus hispidus</i>	10	YES	FACW
Total Cover: 40			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

Dominance Test Worksheet: Number of Dominant Species that are OBL, FACW, or FAC: 3 (A) Total Number of Dominant Species Across All Strata: 3 (B) Percent of Dominant Species that are OBL, FACW, or FAC: 100 (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: 0</td> <td>x 1 = 0</td> </tr> <tr> <td>FACW Species: 110</td> <td>x 2 = 220</td> </tr> <tr> <td>FAC Species: 0</td> <td>x 3 = 0</td> </tr> <tr> <td>FACU Species: 15</td> <td>x 4 = 60</td> </tr> <tr> <td>UPL Species: 0</td> <td>x 5 = 0</td> </tr> <tr> <td>Column Totals: 125 (A)</td> <td>280 (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = 2.24</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: 0	x 1 = 0	FACW Species: 110	x 2 = 220	FAC Species: 0	x 3 = 0	FACU Species: 15	x 4 = 60	UPL Species: 0	x 5 = 0	Column Totals: 125 (A)	280 (B)	Prevalence Index = B/A = 2.24	
Total % Cover of:	Multiply by:																
OBL Species: 0	x 1 = 0																
FACW Species: 110	x 2 = 220																
FAC Species: 0	x 3 = 0																
FACU Species: 15	x 4 = 60																
UPL Species: 0	x 5 = 0																
Column Totals: 125 (A)	280 (B)																
Prevalence Index = B/A = 2.24																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-8	2.5Y 3/1	100					FINE SANDY LOAM	
8-15	2.5Y 4/2	90	2.5Y 4/4	10	D	M	FINE SANDY LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
--	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks: 	

Photos	
<div data-bbox="480 548 1068 1018" data-label="Image"> </div> <div data-bbox="66 1026 1122 1060" data-label="Text"> <p>Photo Name: SC1AW464_052214_WET1SW.jpg Note: SC-1A-W464-WET1</p> </div>	

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 103.6351 City/County: Schoharie Sampling Date: 2014/05/22
Applicant/Owner: Williams State: _____ Sampling Point: SC-1A-W464-UPL1
Investigator(s): PL;KH USGS Quad: Summit Section, Township, Range: Summit
Landform: Sideslope Local Relief: ☐ Concave ☐ Convex ☒ None Slope (%): 10
Subregion: Middle Atlantic Latitude: 42.591298 Longitude: -74.56511 Datum: NAD 1983
Soil Map Unit Name: Lordstown and Oquaga very stony soils, 0 to 35 percent slopes NWI Classification: Not mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is the Sampled Area within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Remarks: <u>Upland plot</u>	
Field Wetland Classification:	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches): _____
Water Table Present: ☐ Yes ☒ No Depth (inches): _____
Saturation Present: ☐ Yes ☒ No Depth (inches): _____

Wetland Hydrology Present? ☐ Yes ☒ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Acer saccharum</i>	55	YES	FACU
<i>Acer rubrum</i>	8	NO	FAC
<i>Quercus rubra</i>	25	YES	FACU
Total Cover: 88			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Acer saccharum</i>	10	YES	FACU
Total Cover: 10			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Crataegus crus-galli</i>	10	NO	FAC
<i>Hamamelis virginiana</i>	30	YES	FACU
<i>Carya sp</i>	8	NO	FAC
Total Cover: 48			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Rubus idaeus</i>	10	NO	FACU
Total Cover: 10			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

Dominance Test Worksheet: Number of Dominant Species that are OBL, FACW, or FAC: _____ 0 (A) Total Number of Dominant Species Across All Strata: _____ 4 (B) Percent of Dominant Species that are OBL, FACW, or FAC: _____ 0 (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Total % Cover of:</td> <td style="width: 20%;"></td> <td style="width: 20%;">Multiply by:</td> <td style="width: 20%;"></td> </tr> <tr> <td>OBL Species:</td> <td style="text-align: center;">0</td> <td>x 1 =</td> <td style="text-align: center;">0</td> </tr> <tr> <td>FACW Species:</td> <td style="text-align: center;">0</td> <td>x 2 =</td> <td style="text-align: center;">0</td> </tr> <tr> <td>FAC Species:</td> <td style="text-align: center;">26</td> <td>x 3 =</td> <td style="text-align: center;">78</td> </tr> <tr> <td>FACU Species:</td> <td style="text-align: center;">130</td> <td>x 4 =</td> <td style="text-align: center;">520</td> </tr> <tr> <td>UPL Species:</td> <td style="text-align: center;">0</td> <td>x 5 =</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Column Totals:</td> <td style="text-align: center;">156 (A)</td> <td></td> <td style="text-align: center;">598 (B)</td> </tr> <tr> <td colspan="3">Prevalence Index = B/A =</td> <td style="text-align: center;">3.83</td> </tr> </table>	Total % Cover of:		Multiply by:		OBL Species:	0	x 1 =	0	FACW Species:	0	x 2 =	0	FAC Species:	26	x 3 =	78	FACU Species:	130	x 4 =	520	UPL Species:	0	x 5 =	0	Column Totals:	156 (A)		598 (B)	Prevalence Index = B/A =			3.83
Total % Cover of:		Multiply by:																															
OBL Species:	0	x 1 =	0																														
FACW Species:	0	x 2 =	0																														
FAC Species:	26	x 3 =	78																														
FACU Species:	130	x 4 =	520																														
UPL Species:	0	x 5 =	0																														
Column Totals:	156 (A)		598 (B)																														
Prevalence Index = B/A =			3.83																														
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																
Remarks:																																	

SOIL


Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-8	10YR 3/2	100					FINE SANDY LOAM	
8-12	10YR 3/4	100					FINE SANDY LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
³ Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.	

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Remarks:	

Photos	
	
Photo Name: SC1AW464_052214_UPL1E.jpg	Note: SC-1A-W464-UPL1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 122.7 City/County: Schoharie Sampling Date: 2013/11/11
Applicant/Owner: Williams State: NY Sampling Point: SC-1C-W172A-WET1
Investigator(s): RR;KH USGS Quad: Schoharie Section, Township, Range: Schoharie
Landform: Depression Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 0
Subregion: Middle Atlantic Latitude: 42.703371 Longitude: -74.26672 Datum: NAD 1988
Soil Map Unit Name: Lansing channery silt loam, 2 to 10 percent slopes NWI Classification: Not Mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: <u>PEM</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☐ Yes ☒ No Depth (inches):

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Cornus racemosa</i>	10	YES	FAC
Total Cover: 10			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Phalaris arundinacea</i>	97	YES	FACW
<i>Scirpus cyperinus</i>	3	NO	OBL
Total Cover: 100			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: <u>3</u></td> <td>x 1 = <u>3</u></td> </tr> <tr> <td>FACW Species: <u>97</u></td> <td>x 2 = <u>194</u></td> </tr> <tr> <td>FAC Species: <u>10</u></td> <td>x 3 = <u>30</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>110</u> (A)</td> <td><u>227</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.06</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: <u>3</u>	x 1 = <u>3</u>	FACW Species: <u>97</u>	x 2 = <u>194</u>	FAC Species: <u>10</u>	x 3 = <u>30</u>	FACU Species: <u>0</u>	x 4 = <u>0</u>	UPL Species: <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>110</u> (A)	<u>227</u> (B)	Prevalence Index = B/A = <u>2.06</u>	
Total % Cover of:	Multiply by:																
OBL Species: <u>3</u>	x 1 = <u>3</u>																
FACW Species: <u>97</u>	x 2 = <u>194</u>																
FAC Species: <u>10</u>	x 3 = <u>30</u>																
FACU Species: <u>0</u>	x 4 = <u>0</u>																
UPL Species: <u>0</u>	x 5 = <u>0</u>																
Column Totals: <u>110</u> (A)	<u>227</u> (B)																
Prevalence Index = B/A = <u>2.06</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) <small>¹Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.</small>	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-1	2.5Y 3/2	100					SILT LOAM	
1-6	2.5Y 4/2	95	7.5YR 4/4	5	C	PL	SILT LOAM	
6-20	2.5Y 5/1	80	2.5Y 5/6	20	C	M	CLAY LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- | | |
|---|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Stratified Layers (A5) | <input checked="" type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sandy Redox (S5) | |
| <input type="checkbox"/> Stripped Matrix (S6) | |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | |

Indicators for Problematic Hydric Soils

- | |
|--|
| <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) |
| <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) |
| <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) |
| <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) |
| <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) |
| <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| <input type="checkbox"/> Red Parent Material (F21) |
| <input type="checkbox"/> Very Shallow Dark Surface (TF12) |
| <input type="checkbox"/> Other (Explain in Remarks) |

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? ☒ **Yes** ☐ **No**

Remarks:

Photos

Photo Name: SC1CW172A_111113_WET1NE.jpg

Note: SC-1C-W172A-WET1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 122.7 City/County: Schoharie Sampling Date: 2013/11/11
Applicant/Owner: Williams State: NY Sampling Point: SC-1C-W172A-WET2
Investigator(s): RR;KH USGS Quad: Schoharie Section, Township, Range: Schoharie
Landform: Depression Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 0
Subregion: Middle Atlantic Latitude: 42.703428 Longitude: -74.26667 Datum: NAD 1988
Soil Map Unit Name: Lansing channery silt loam, 2 to 10 percent slopes NWI Classification: Not Mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: PSS	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☐ Yes ☒ No Depth (inches):

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Ulmus rubra</i>	5	YES	FAC
<i>Acer saccharum</i>	5	YES	FACU
Total Cover: 10			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Cornus amomum</i>	40	YES	FACW
<i>Cornus racemosa</i>	40	YES	FAC
Total Cover: 80			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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>4</u> (B) Percent of Dominant Species that are OBL, FACW, or FAC: <u>75</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <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>40</u></td> <td>x 2 = <u>80</u></td> </tr> <tr> <td>FAC Species: <u>45</u></td> <td>x 3 = <u>135</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>90</u> (A)</td> <td><u>235</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.61</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: <u>0</u>	x 1 = <u>0</u>	FACW Species: <u>40</u>	x 2 = <u>80</u>	FAC Species: <u>45</u>	x 3 = <u>135</u>	FACU Species: <u>5</u>	x 4 = <u>20</u>	UPL Species: <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>90</u> (A)	<u>235</u> (B)	Prevalence Index = B/A = <u>2.61</u>	
Total % Cover of:	Multiply by:																
OBL Species: <u>0</u>	x 1 = <u>0</u>																
FACW Species: <u>40</u>	x 2 = <u>80</u>																
FAC Species: <u>45</u>	x 3 = <u>135</u>																
FACU Species: <u>5</u>	x 4 = <u>20</u>																
UPL Species: <u>0</u>	x 5 = <u>0</u>																
Column Totals: <u>90</u> (A)	<u>235</u> (B)																
Prevalence Index = B/A = <u>2.61</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-12	2.5Y 4/2	95	7.5YR 5/6	5	C	PL	SILT LOAM	
12-18	2.5Y 5/3	90	2.5Y 5/6	10	C	M	FINE SANDY LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
--	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks: 	

Photos	
<div data-bbox="480 548 1068 1018" data-label="Image"> </div> <div data-bbox="66 1024 1485 1062"> <div> Photo Name: SC1CW172A_111113_WET2N.jpg </div> <div> Note: SC-1C-W172A-WET2 </div> </div>	

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 122.7 City/County: Schoharie Sampling Date: 2013/11/11
Applicant/Owner: Williams State: NY Sampling Point: SC-1C-W172A-UPL1
Investigator(s): RR;KH USGS Quad: Schoharie Section, Township, Range: Schoharie
Landform: cornfield Local Relief: ☐ Concave ☐ Convex ☒ None Slope (%): 1
Subregion: Middle Atlantic Latitude: 42.703160 Longitude: -74.26678 Datum: NAD 1988
Soil Map Unit Name: Lansing channery silt loam, 2 to 10 percent slopes NWI Classification: Not Mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is the Sampled Area within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Remarks: <u>upland plot</u>	
Field Wetland Classification:	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☐ Yes ☒ No Depth (inches):

Wetland Hydrology Present? ☐ Yes ☒ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Quercus rubra</i>	15	YES	FACU
Total Cover: 15			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Quercus rubra</i>	10	YES	FACU
Total Cover: 10			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Phleum pratense</i>	5	NO	FACU
<i>Euthamia graminifolia</i>	5	NO	FAC
<i>Zea mays</i>	40	YES	UPL
Total Cover: 50			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Total % Cover of:</td> <td style="width: 40%;">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>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC Species: <u>5</u></td> <td>x 3 = <u>15</u></td> </tr> <tr> <td>FACU Species: <u>30</u></td> <td>x 4 = <u>120</u></td> </tr> <tr> <td>UPL Species: <u>40</u></td> <td>x 5 = <u>200</u></td> </tr> <tr> <td>Column Totals: <u>75</u> (A)</td> <td><u>335</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = <u>4.47</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>5</u>	x 3 = <u>15</u>	FACU Species: <u>30</u>	x 4 = <u>120</u>	UPL Species: <u>40</u>	x 5 = <u>200</u>	Column Totals: <u>75</u> (A)	<u>335</u> (B)	Prevalence Index = B/A = <u>4.47</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>5</u>	x 3 = <u>15</u>																
FACU Species: <u>30</u>	x 4 = <u>120</u>																
UPL Species: <u>40</u>	x 5 = <u>200</u>																
Column Totals: <u>75</u> (A)	<u>335</u> (B)																
Prevalence Index = B/A = <u>4.47</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-2	2.5Y 4/3	100					FINE SANDY LOAM	
2-14	2.5Y 4/4	100					FINE SANDY LOAM	
14-18	2.5Y 5/6	100					FINE SANDY LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- | | |
|---|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Stratified Layers (A5) | <input type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sandy Redox (S5) | |
| <input type="checkbox"/> Stripped Matrix (S6) | |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | |

Indicators for Problematic Hydric Soils

- | |
|--|
| <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) |
| <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) |
| <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) |
| <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) |
| <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) |
| <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| <input type="checkbox"/> Red Parent Material (F21) |
| <input type="checkbox"/> Very Shallow Dark Surface (TF12) |
| <input type="checkbox"/> Other (Explain in Remarks) |

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? ☐ Yes ☒ No

Remarks:

Photos

Photo Name: SC1CW172A_111113_UPL1SW.jpg

Note: SC-1C-W172A-UPL1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 97.46 City/County: Schoharie Sampling Date: 2013/12/10
Applicant/Owner: Williams State: NY Sampling Point: SC-1C-W459-WET1
Investigator(s): RR;KH USGS Quad: Summit Section, Township, Range: Summit
Landform: Depression Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 1
Subregion: Middle Atlantic Latitude: 42.553950 Longitude: -74.61856 Datum: NAD 1983
Soil Map Unit Name: Volusia channery silt loam, 3 to 8 percent slopes NWI Classification: Not Mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: <u>PFO</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input checked="" type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☒ Yes ☐ No Depth (inches): 1
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Acer rubrum</i>	30	YES	FAC
<i>Picea mariana</i>	10	YES	FACW
Total Cover: 40			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Spiraea alba</i>	25	YES	FACW
<i>Alnus incana</i>	20	YES	FACW
Total Cover: 45			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Onoclea sensibilis</i>	20	YES	FACW
Total Cover: 20			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

Dominance Test Worksheet: Number of Dominant Species that are OBL, FACW, or FAC: <u>5</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>100</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <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>75</u></td> <td>x 2 = <u>150</u></td> </tr> <tr> <td>FAC Species: <u>30</u></td> <td>x 3 = <u>90</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>105</u> (A)</td> <td><u>240</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.29</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: <u>0</u>	x 1 = <u>0</u>	FACW Species: <u>75</u>	x 2 = <u>150</u>	FAC Species: <u>30</u>	x 3 = <u>90</u>	FACU Species: <u>0</u>	x 4 = <u>0</u>	UPL Species: <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>105</u> (A)	<u>240</u> (B)	Prevalence Index = B/A = <u>2.29</u>	
Total % Cover of:	Multiply by:																
OBL Species: <u>0</u>	x 1 = <u>0</u>																
FACW Species: <u>75</u>	x 2 = <u>150</u>																
FAC Species: <u>30</u>	x 3 = <u>90</u>																
FACU Species: <u>0</u>	x 4 = <u>0</u>																
UPL Species: <u>0</u>	x 5 = <u>0</u>																
Column Totals: <u>105</u> (A)	<u>240</u> (B)																
Prevalence Index = B/A = <u>2.29</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-3	10YR 3/2	100					FINE SANDY LOAM	
3-14	10YR 4/3	97	7.5YR 4/6	3	C	PL	FINE SANDY LOAM	
14-20	2.5Y 5/2	90	10 YR 5/6	10	C	M	SANDY LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- | | |
|---|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Stratified Layers (A5) | <input checked="" type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sandy Redox (S5) | |
| <input type="checkbox"/> Stripped Matrix (S6) | |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | |

Indicators for Problematic Hydric Soils

- | |
|--|
| <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) |
| <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) |
| <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) |
| <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) |
| <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) |
| <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| <input type="checkbox"/> Red Parent Material (F21) |
| <input type="checkbox"/> Very Shallow Dark Surface (TF12) |
| <input type="checkbox"/> Other (Explain in Remarks) |

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? ☒ **Yes** ☐ **No**

Remarks:

Photos

Photo Name: SC1CW459_121013_WET1SW.jpg

Note: SC-1C-W459-WET1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 97.46 City/County: Schoharie Sampling Date: 2013/12/10
Applicant/Owner: Williams State: NY Sampling Point: SC-1C-W459-UPL1
Investigator(s): RR;KH USGS Quad: Summit Section, Township, Range: Summit
Landform: Side slope Local Relief: ☐ Concave ☐ Convex ☒ None Slope (%): 3
Subregion: Middle Atlantic Latitude: 42.554000 Longitude: -74.61874 Datum: NAD 1983
Soil Map Unit Name: Lordstown channery silt loam, 5 to 15 percent slopes NWI Classification: Not Mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is the Sampled Area within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Remarks: <u>Upland Plot</u>	
Field Wetland Classification:	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☐ Yes ☒ No Depth (inches):

Wetland Hydrology Present? ☐ Yes ☒ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Acer rubrum</i>	5	YES	FAC
<i>Malus sp</i>	15	YES	UPL
Total Cover: 20			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Spiraea alba</i>	10	YES	FACW
Total Cover: 10			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Euthamia graminifolia</i>	15	YES	FAC
<i>Solidago canadensis</i>	10	NO	FACU
<i>Phleum pratense</i>	20	YES	FACU
<i>Solidago rugosa</i>	5	NO	FAC
<i>Plantago major</i>	10	NO	FACU
Total Cover: 60			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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>5</u> (B) Percent of Dominant Species that are OBL, FACW, or FAC: <u>60</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <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>10</u></td> <td>x 2 = <u>20</u></td> </tr> <tr> <td>FAC Species: <u>25</u></td> <td>x 3 = <u>75</u></td> </tr> <tr> <td>FACU Species: <u>40</u></td> <td>x 4 = <u>160</u></td> </tr> <tr> <td>UPL Species: <u>15</u></td> <td>x 5 = <u>75</u></td> </tr> <tr> <td>Column Totals: <u>90</u> (A)</td> <td><u>330</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = <u>3.67</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: <u>0</u>	x 1 = <u>0</u>	FACW Species: <u>10</u>	x 2 = <u>20</u>	FAC Species: <u>25</u>	x 3 = <u>75</u>	FACU Species: <u>40</u>	x 4 = <u>160</u>	UPL Species: <u>15</u>	x 5 = <u>75</u>	Column Totals: <u>90</u> (A)	<u>330</u> (B)	Prevalence Index = B/A = <u>3.67</u>	
Total % Cover of:	Multiply by:																
OBL Species: <u>0</u>	x 1 = <u>0</u>																
FACW Species: <u>10</u>	x 2 = <u>20</u>																
FAC Species: <u>25</u>	x 3 = <u>75</u>																
FACU Species: <u>40</u>	x 4 = <u>160</u>																
UPL Species: <u>15</u>	x 5 = <u>75</u>																
Column Totals: <u>90</u> (A)	<u>330</u> (B)																
Prevalence Index = B/A = <u>3.67</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-4	10YR 3/2	100					LOAM	
4-12	10YR 3/3	100					LOAM	
12-18	10YR 5/4	100					FINE SANDY LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- | | |
|---|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Stratified Layers (A5) | <input type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sandy Redox (S5) | |
| <input type="checkbox"/> Stripped Matrix (S6) | |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | |

Indicators for Problematic Hydric Soils

- | |
|--|
| <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) |
| <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) |
| <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) |
| <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) |
| <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) |
| <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| <input type="checkbox"/> Red Parent Material (F21) |
| <input type="checkbox"/> Very Shallow Dark Surface (TF12) |
| <input type="checkbox"/> Other (Explain in Remarks) |

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? ☐ Yes ☒ No

Remarks:

Photos

Photo Name: SC1CW459_121013_UPL1NW.jpg

Note: SC-1C-W459-UPL1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 107.1 City/County: Schoharie Sampling Date: 2013/06/19
Applicant/Owner: Williams State: NY Sampling Point: SC-1Q-W425-WET1
Investigator(s): EG;AM;KH USGS Quad: Richmondville Section, Township, Range: Richmondville
Landform: Hillside Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 8
Subregion: Middle Atlantic Latitude: 42.642552 Longitude: -74.53235 Datum: NAD1983
Soil Map Unit Name: Lordstown, Oquaga, and Nassau soils, 35 to 70 percent slopes NWI Classification: Not Mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: <u>PFO</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input checked="" type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input checked="" type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input checked="" type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input checked="" type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input checked="" type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☒ Yes ☐ No Depth (inches): 1
Water Table Present: ☒ Yes ☐ No Depth (inches): 15
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Acer saccharum</i>	50	YES	FACU
Total Cover: 50			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Fraxinus pennsylvanica</i>	60	YES	FACW
Total Cover: 60			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Fraxinus pennsylvanica</i>	10	YES	FACW
Total Cover: 10			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Impatiens capensis</i>	80	YES	FACW
<i>Onoclea sensibilis</i>	5	NO	FACW
Total Cover: 85			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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>4</u> (B) Percent of Dominant Species that are OBL, FACW, or FAC: <u>75</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <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>155</u></td> <td>x 2 = <u>310</u></td> </tr> <tr> <td>FAC Species: <u>0</u></td> <td>x 3 = <u>0</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>205</u> (A)</td> <td><u>510</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.49</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: <u>0</u>	x 1 = <u>0</u>	FACW Species: <u>155</u>	x 2 = <u>310</u>	FAC Species: <u>0</u>	x 3 = <u>0</u>	FACU Species: <u>50</u>	x 4 = <u>200</u>	UPL Species: <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>205</u> (A)	<u>510</u> (B)	Prevalence Index = B/A = <u>2.49</u>	
Total % Cover of:	Multiply by:																
OBL Species: <u>0</u>	x 1 = <u>0</u>																
FACW Species: <u>155</u>	x 2 = <u>310</u>																
FAC Species: <u>0</u>	x 3 = <u>0</u>																
FACU Species: <u>50</u>	x 4 = <u>200</u>																
UPL Species: <u>0</u>	x 5 = <u>0</u>																
Column Totals: <u>205</u> (A)	<u>510</u> (B)																
Prevalence Index = B/A = <u>2.49</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-8	2.5Y 4/1	92	7.5YR 4/6	8	C	M		Muck
8-22	5Y 4/1	97	10YR 5/6	3	C	M	CLAY LOAM	10% gravel

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input checked="" type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input checked="" type="checkbox"/> Other (Explain in Remarks)
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³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks: 	

Photos	
<div data-bbox="461 548 1089 1018" data-label="Image"> </div> <div data-bbox="66 1024 1485 1062"> <div> Photo Name: SC1QW425_061913_WET1SW.jpg </div> <div> Note: SC-1Q-W425-WET1 </div> </div>	

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 107.1 City/County: Schoharie Sampling Date: 2013/06/19
Applicant/Owner: Williams State: NY Sampling Point: SC-1Q-W425-WET2
Investigator(s): EG;AM;KH USGS Quad: Richmondville Section, Township, Range: Richmondville
Landform: hillside Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): 10
Subregion: Middle Atlantic Latitude: 42.642457 Longitude: -74.53245 Datum: NAD1983
Soil Map Unit Name: Lordstown, Oquaga, and Nassau soils, 35 to 70 percent slopes NWI Classification: Not Mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: <u>PEM</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input checked="" type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input checked="" type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input checked="" type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input checked="" type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input checked="" type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☒ Yes ☐ No Depth (inches): 5
Water Table Present: ☒ Yes ☐ No Depth (inches): 0
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Impatiens capensis</i>	15	NO	FACW
<i>Solidago sp</i>	15	NO	NONE
<i>Persicaria sagittata</i>	30	YES	OBL
<i>Unknown grass</i>	30	YES	NONE
<i>Veronica anagallis-aquatica</i>	10	YES	OBL
Total Cover: 100			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

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>67</u> (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: <u>40</u></td> <td>x 1 = <u>40</u></td> </tr> <tr> <td>FACW Species: <u>15</u></td> <td>x 2 = <u>30</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>55</u> (A)</td> <td><u>70</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = <u>1.27</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: <u>40</u>	x 1 = <u>40</u>	FACW Species: <u>15</u>	x 2 = <u>30</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>55</u> (A)	<u>70</u> (B)	Prevalence Index = B/A = <u>1.27</u>	
Total % Cover of:	Multiply by:																
OBL Species: <u>40</u>	x 1 = <u>40</u>																
FACW Species: <u>15</u>	x 2 = <u>30</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>55</u> (A)	<u>70</u> (B)																
Prevalence Index = B/A = <u>1.27</u>																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-6	2.5Y 3/2	100				None		Muck
6-17	2.5Y 3/1	90	10YR 4/5	10	C	M	SILT LOAM	
17-24	Gley 5/10Y	100				None	CLAY LOAM	15% Gravel

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- | | |
|---|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Stratified Layers (A5) | <input checked="" type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sandy Redox (S5) | |
| <input type="checkbox"/> Stripped Matrix (S6) | |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | |

Indicators for Problematic Hydric Soils

- | |
|--|
| <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) |
| <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) |
| <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) |
| <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) |
| <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) |
| <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| <input type="checkbox"/> Red Parent Material (F21) |
| <input type="checkbox"/> Very Shallow Dark Surface (TF12) |
| <input type="checkbox"/> Other (Explain in Remarks) |

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? ☒ **Yes** ☐ **No**

Remarks:

Photos

Photo Name: SC1QW425_061913_WET2NW.jpg

Note: SC-1Q-W425-WET2

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 107.1 City/County: Schoharie Sampling Date: 2013/06/19
Applicant/Owner: Williams State: NY Sampling Point: SC-1Q-W425-UPL1
Investigator(s): EG;AM;KH USGS Quad: Richmondville Section, Township, Range: Richmondville
Landform: hillside Local Relief: ☐ Concave ☒ Convex ☐ None Slope (%): 10
Subregion: Middle Atlantic Latitude: 42.642338 Longitude: -74.53269 Datum: NAD1983
Soil Map Unit Name: Volusia channery silt loam, 8 to 15 percent slopes NWI Classification: Not Mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is the Sampled Area within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Remarks: <u>Upland plot</u>	
Field Wetland Classification: <u>OTHER</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches):
Water Table Present: ☐ Yes ☒ No Depth (inches):
Saturation Present: ☐ Yes ☒ No Depth (inches):

Wetland Hydrology Present? ☐ Yes ☒ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Galium mollugo</i>	60	YES	UPL
<i>wild parsnip</i>	10	NO	FACW
<i>Asclepias syriaca</i>	15	NO	FACU
<i>Veronica chamadrys</i>	10	NO	FACU
<i>Unknown grass</i>	5	NO	NONE
Total Cover: 100			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

Dominance Test Worksheet: Number of Dominant Species that are OBL, FACW, or FAC: _____ 0 (A) Total Number of Dominant Species Across All Strata: _____ 1 (B) Percent of Dominant Species that are OBL, FACW, or FAC: _____ 0 (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL Species: _____ 0</td> <td>x 1 = _____ 0</td> </tr> <tr> <td>FACW Species: _____ 10</td> <td>x 2 = _____ 20</td> </tr> <tr> <td>FAC Species: _____ 0</td> <td>x 3 = _____ 0</td> </tr> <tr> <td>FACU Species: _____ 25</td> <td>x 4 = _____ 100</td> </tr> <tr> <td>UPL Species: _____ 60</td> <td>x 5 = _____ 300</td> </tr> <tr> <td>Column Totals: _____ 95 (A)</td> <td>_____ 420 (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = _____ 4.42</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: _____ 0	x 1 = _____ 0	FACW Species: _____ 10	x 2 = _____ 20	FAC Species: _____ 0	x 3 = _____ 0	FACU Species: _____ 25	x 4 = _____ 100	UPL Species: _____ 60	x 5 = _____ 300	Column Totals: _____ 95 (A)	_____ 420 (B)	Prevalence Index = B/A = _____ 4.42	
Total % Cover of:	Multiply by:																
OBL Species: _____ 0	x 1 = _____ 0																
FACW Species: _____ 10	x 2 = _____ 20																
FAC Species: _____ 0	x 3 = _____ 0																
FACU Species: _____ 25	x 4 = _____ 100																
UPL Species: _____ 60	x 5 = _____ 300																
Column Totals: _____ 95 (A)	_____ 420 (B)																
Prevalence Index = B/A = _____ 4.42																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-12	10YR 3/3	100				None	LOAM	
12-16	2.5Y 4/3	100				M,PL	SILT LOAM	20% gravel; Refusal @16"


¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
---	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Remarks:	

Photos	
	
Photo Name: SC1QW425_061913_UPL1S.jpg	Note: SC-1Q-W425-UPL1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 107.1 City/County: Schoharie Sampling Date: 2013/06/19
Applicant/Owner: Williams State: NY Sampling Point: SC-1Q-W426-WET1
Investigator(s): EG;AM;KH USGS Quad: Richmondville Section, Township, Range: Richmondville
Landform: hillside Local Relief: ☒ Concave ☐ Convex ☐ None Slope (%): _____
Subregion: Middle Atlantic Latitude: 42.644338 Longitude: -74.53190 Datum: NAD1983
Soil Map Unit Name: Odessa and Rhinebeck silty clay loams, 6 to 12 percent slopes, eroded NWI Classification: Not Mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: Field Wetland Classification: <u>PEM</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input checked="" type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input checked="" type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input checked="" type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches): _____
Water Table Present: ☒ Yes ☐ No Depth (inches): 3
Saturation Present: ☒ Yes ☐ No Depth (inches): 0

Wetland Hydrology Present? ☒ Yes ☐ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Poa pratensis</i>	100	YES	FACU
Total Cover: 100			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

Dominance Test Worksheet: Number of Dominant Species that are OBL, FACW, or FAC: 0 (A) Total Number of Dominant Species Across All Strata: 1 (B) Percent of Dominant Species that are OBL, FACW, or FAC: 0 (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Total % Cover of:</td> <td style="width: 40%;">Multiply by:</td> </tr> <tr> <td>OBL Species: 0</td> <td>x 1 = 0</td> </tr> <tr> <td>FACW Species: 0</td> <td>x 2 = 0</td> </tr> <tr> <td>FAC Species: 0</td> <td>x 3 = 0</td> </tr> <tr> <td>FACU Species: 100</td> <td>x 4 = 400</td> </tr> <tr> <td>UPL Species: 0</td> <td>x 5 = 0</td> </tr> <tr> <td>Column Totals: 100 (A)</td> <td>400 (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = 4.00</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: 0	x 1 = 0	FACW Species: 0	x 2 = 0	FAC Species: 0	x 3 = 0	FACU Species: 100	x 4 = 400	UPL Species: 0	x 5 = 0	Column Totals: 100 (A)	400 (B)	Prevalence Index = B/A = 4.00	
Total % Cover of:	Multiply by:																
OBL Species: 0	x 1 = 0																
FACW Species: 0	x 2 = 0																
FAC Species: 0	x 3 = 0																
FACU Species: 100	x 4 = 400																
UPL Species: 0	x 5 = 0																
Column Totals: 100 (A)	400 (B)																
Prevalence Index = B/A = 4.00																	

Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	<div style="text-align: center; font-weight: bold; font-size: 1.2em;">Hydrophytic Vegetation Present?</div> <div style="text-align: center;"> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No </div>
Remarks:	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-4	2.5Y 3/2	100				None	CLAY LOAM	
4-16	2.5Y 4/1	93	10YR 5/6	7	C	M,PL	CLAY LOAM	Rock refusal @16"; 3 attempts

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- | | |
|---|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Stratified Layers (A5) | <input checked="" type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sandy Redox (S5) | |
| <input type="checkbox"/> Stripped Matrix (S6) | |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | |

Indicators for Problematic Hydric Soils

- ☐ 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- ☐ Coast: Prairie Redox (A16) (LRR K, L, R)
- ☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- ☐ Dark Surface (S7) (LRR K, L, M)
- ☐ Polyvalue Below Surface (S8) (LRR K, L)
- ☐ Thin Dark Surface (S9) (LRR K, L)
- ☐ Iron-Manganese Masses (F12) (LRR K, L, R)
- ☐ Piedmont Floodplain Soils (F19) (MLRA 149B)
- ☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- ☐ Red Parent Material (F21)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks:	

Photos



Photo Name: SC1QW426_061913_WET1E.jpg

Note: SC-1Q-W426-WET1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Milepost 107.1 City/County: Schoharie Sampling Date: 2013/06/19
Applicant/Owner: Williams State: NY Sampling Point: SC-1Q-W426-UPL1
Investigator(s): EG;AM;KH USGS Quad: Richmondville Section, Township, Range: Richmondville
Landform: hillside Local Relief: ☐ Concave ☐ Convex ☐ None Slope (%): _____
Subregion: Middle Atlantic Latitude: 42.644527 Longitude: -74.53199 Datum: NAD1983
Soil Map Unit Name: Odessa and Rhinebeck silty clay loams, 6 to 12 percent slopes, eroded NWI Classification: Not Mapped

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? ☒ No Are "Normal Circumstances" present? ☒ Yes ☐ No
Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☒ No (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is the Sampled Area within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Remarks: <u>Upland plot</u>	
Field Wetland Classification: <u>OTHER</u>	

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (minimum of two required)

- | |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Moss Trim Lines (B16) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Stunted or Stressed Plants (D1) |
| <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Microtopographic Relief (D4) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Other (Explain in Remarks) |

Field Observations:

Surface Water Present: ☐ Yes ☒ No Depth (inches): _____
Water Table Present: ☐ Yes ☒ No Depth (inches): _____
Saturation Present: ☐ Yes ☒ No Depth (inches): _____

Wetland Hydrology Present? ☐ Yes ☒ No

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

Remarks:

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Shrub Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
<i>Dactylis glomerata</i>	45	YES	FACU
<i>Taraxacum officinale</i>	5	NO	FACU
<i>Bromus Inermis</i>	20	YES	FACU
<i>Trifolium pratense</i>	5	NO	FACU
<i>Trifolium repens</i>	5	NO	FACU
<i>Phleum pratense</i>	20	YES	FACU
<i>Galium mollugo</i>	5	NO	UPL
Total Cover: 105			
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			

Dominance Test Worksheet: Number of Dominant Species that are OBL, FACW, or FAC: 0 (A) Total Number of Dominant Species Across All Strata: 3 (B) Percent of Dominant Species that are OBL, FACW, or FAC: 0 (A/B)	Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Total % Cover of:</td> <td style="width: 40%;">Multiply by:</td> </tr> <tr> <td>OBL Species: 0</td> <td>x 1 = 0</td> </tr> <tr> <td>FACW Species: 0</td> <td>x 2 = 0</td> </tr> <tr> <td>FAC Species: 0</td> <td>x 3 = 0</td> </tr> <tr> <td>FACU Species: 100</td> <td>x 4 = 400</td> </tr> <tr> <td>UPL Species: 5</td> <td>x 5 = 25</td> </tr> <tr> <td>Column Totals: 105 (A)</td> <td>425 (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = 4.05</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL Species: 0	x 1 = 0	FACW Species: 0	x 2 = 0	FAC Species: 0	x 3 = 0	FACU Species: 100	x 4 = 400	UPL Species: 5	x 5 = 25	Column Totals: 105 (A)	425 (B)	Prevalence Index = B/A = 4.05	
Total % Cover of:	Multiply by:																
OBL Species: 0	x 1 = 0																
FACW Species: 0	x 2 = 0																
FAC Species: 0	x 3 = 0																
FACU Species: 100	x 4 = 400																
UPL Species: 5	x 5 = 25																
Column Totals: 105 (A)	425 (B)																
Prevalence Index = B/A = 4.05																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalance is ≤ 3.0 <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																
Remarks:																	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (in.)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-14	2.5Y 4/3	98	10YR 6/6	2	C	M	CLAY LOAM	Rock refusal @14"

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) </div> <div style="width: 50%;"> <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>	Indicators for Problematic Hydric Soils <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast: Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
---	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer Present (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Remarks:	

Photos	
<div data-bbox="461 548 1089 1018" data-label="Image"> </div> <div data-bbox="66 1024 1485 1062"> <div>Photo Name: SC1QW426_061913_UPL1W.jpg</div> <div>Note: SC-1Q-W426-UPL1</div> </div>	

WETLAND DELINEATION REPORT

SUBMITTAL NO. 3

ATTACHMENT 3

CONSTITUTION PIPELINE



CONSTITUTION PIPELINE

WATERBODY DATA SHEETS AND PHOTOGRAPHS

BROOME COUNTY

Waterbody Data Form

Feature ID: BR-1C-S210

Feature Name:

Associated Wetland ID: BR-1C-W263

☐ Centerline ☒ Re-Route ☐ Access Road ☐ Ancillary Facility ☐ Alternative Route ☐ Other

Centerline ID:		Facility Description:	
Date: 2014/04/25	Client/Project Name: Constitution		Latitude/Longitude: 42.020878 , -75.52564
Team: 1A	State/County: NY - Broome		Quad Name: Gulf Summit
Logbook No.: 15	Logbook Page No.: 12	Tract No.: ALT-B-NY-BR-012.000	

Waterbody Type:	<input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Borrow Pit <input checked="" type="checkbox"/> Stream <input type="checkbox"/> Ag. Ditch <input type="checkbox"/> Other
Stream Flow:	<input type="checkbox"/> Fast <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Slow <input type="checkbox"/> Very Slow <input type="checkbox"/> None
Flow Type:	<input type="checkbox"/> Perennial (Flows year round) <input checked="" type="checkbox"/> Intermittent (Flows <3 months) <input type="checkbox"/> None <input type="checkbox"/> Seasonal (Continuous flow \geq 3 months) <input type="checkbox"/> Ephemeral (Flows only in response to rainfall)
Direction of Flow:	<input type="checkbox"/> N <input type="checkbox"/> NE <input type="checkbox"/> E <input type="checkbox"/> SE <input type="checkbox"/> S <input type="checkbox"/> SW <input checked="" type="checkbox"/> W <input type="checkbox"/> NW <input type="checkbox"/> No Flow
OHWM Width (ft.):	2
Sinuosity:	<input checked="" type="checkbox"/> Braided <input type="checkbox"/> Meandering <input type="checkbox"/> Straight <input type="checkbox"/> N/A
Stream Width (ft.):	2
Water Surface (At Crossing Location):	2
Stream Depth (in.):	<input type="checkbox"/> 0 <input type="checkbox"/> 1-3 <input type="checkbox"/> 3-6 <input checked="" type="checkbox"/> 6-12 <input type="checkbox"/> 12-18 <input type="checkbox"/> 18-24 <input type="checkbox"/> 24-36 <input type="checkbox"/> 36-48 <input type="checkbox"/> 48-60 <input type="checkbox"/> 60+
OHWM Indicators: BENT, MATTED OR MISSING VEGETATION SCOUR	
Bank Height (ft.): (Looking Downstream)	Left: <input checked="" type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+ Right: <input checked="" type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+
Bank Slope (%): (Looking Downstream)	Left: 4:1 Right: 4:1

Qualitative Attributes

Water Appearance:			
<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Turbid	<input type="checkbox"/> Sheen on Surface	<input type="checkbox"/> Floating Algal mats
<input type="checkbox"/> Slightly Turbid	<input type="checkbox"/> Very Turbid	<input type="checkbox"/> Greenish Color	<input type="checkbox"/> Obvious Surface Scum
<input type="checkbox"/> No Flow	<input type="checkbox"/> Other:		
Stream Substrate %:			
70% MUCK			
10% OTHER - Stone			
20% VEGETATION			

Aquatic Habitats:

- | | | | |
|---|--|--|-------------|
| <input type="checkbox"/> Sand Bar | <input type="checkbox"/> Gravel Riffles | <input checked="" type="checkbox"/> In-stream Emergent Plants | % Cover: 20 |
| <input type="checkbox"/> Gravel Bar | <input type="checkbox"/> Deep Pools | <input type="checkbox"/> In-stream Submerged Plants | % Cover: |
| <input type="checkbox"/> Mud Bar | <input type="checkbox"/> Bank Root Systems | <input checked="" type="checkbox"/> Fringing Wetlands ¹ | |
| <input type="checkbox"/> Undercut Banks | <input checked="" type="checkbox"/> Overhanging Trees/Shrubs | <input type="checkbox"/> None | |

¹Characteristics: PEM/PSS

Aquatic Organisms Observed:

FROGS

FISH (JUVENILE)

WATERFOWL

Tributary Condition: ☒ Natural ☐ Artificial (Man-Made) ☐ Manipulated

Channel Condition: ☐ Channelization/Braiding ☐ Unnatural Straightening ☐ Downcutting
☐ Dikes/Berms ☐ Excessive Bank Erosion ☒ N/A

Habitat Characteristics, Aquatic, and Terrestrial Diversity Description:

Stream Quality: ☐ High ☒ Moderate ☐ Low

Comments:

Photos



Photo Name: BR1CS210_042514_1E.jpg

Note: BR-1C-S210



Photo Name: BR1CS210_042514_2W.jpg

Note: BR-1C-S210



Photo Name: BR1CS210_042514_3N.jpg

Note: BR-1C-S210

Waterbody Data Form

Feature ID: BR-1C-S211

Feature Name:

Associated Wetland ID: BR-1C-W263

☒ Centerline ☐ Re-Route ☐ Access Road ☐ Ancillary Facility ☐ Alternative Route ☐ Other

Centerline ID:		Facility Description:	
Date: 2014/04/25	Client/Project Name: Constitution		Latitude/Longitude: 42.020431 , -75.52584
Team: 1A	State/County: NY - Broome		Quad Name: Gulf Summit
Logbook No.: 15	Logbook Page No.: 13	Tract No.: ALT-B-NY-BR-012.000	

Waterbody Type: <input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Borrow Pit <input checked="" type="checkbox"/> Stream <input type="checkbox"/> Ag. Ditch <input type="checkbox"/> Other	
Stream Flow: <input type="checkbox"/> Fast <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Slow <input type="checkbox"/> Very Slow <input type="checkbox"/> None	
Flow Type: <input checked="" type="checkbox"/> Perennial (Flows year round) <input type="checkbox"/> Intermittent (Flows <3 months) <input type="checkbox"/> None <input type="checkbox"/> Seasonal (Continuous flow ≥ 3 months) <input type="checkbox"/> Ephemeral (Flows only in response to rainfall)	
Direction of Flow: <input type="checkbox"/> N <input type="checkbox"/> NE <input type="checkbox"/> E <input type="checkbox"/> SE <input type="checkbox"/> S <input type="checkbox"/> SW <input checked="" type="checkbox"/> W <input type="checkbox"/> NW <input type="checkbox"/> No Flow	
OHWM Width (ft.): 9	
Sinuosity: <input type="checkbox"/> Braided <input checked="" type="checkbox"/> Meandering <input type="checkbox"/> Straight <input type="checkbox"/> N/A	
Stream Width (ft.): 12 Water Surface (At Crossing Location): 9	
Stream Depth (in.): <input type="checkbox"/> 0 <input type="checkbox"/> 1-3 <input checked="" type="checkbox"/> 3-6 <input type="checkbox"/> 6-12 <input type="checkbox"/> 12-18 <input type="checkbox"/> 18-24 <input type="checkbox"/> 24-36 <input type="checkbox"/> 36-48 <input type="checkbox"/> 48-60 <input type="checkbox"/> 60+	
OHWM Indicators: CLEAR NATURAL LINE ON BANK LITTER AND DEBRIS SCOUR	
Bank Height (ft.): (Looking Downstream)	Left: <input checked="" type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+ Right: <input checked="" type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+
Bank Slope (%): (Looking Downstream)	Left: Ver Right: 3:1

Qualitative Attributes

Water Appearance:			
<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Turbid	<input type="checkbox"/> Sheen on Surface	<input type="checkbox"/> Floating Algal mats
<input type="checkbox"/> Slightly Turbid	<input type="checkbox"/> Very Turbid	<input type="checkbox"/> Greenish Color	<input type="checkbox"/> Obvious Surface Scum
<input type="checkbox"/> No Flow	<input type="checkbox"/> Other:		
Stream Substrate %:			
65% COBBLES			
20% GRAVEL			
10% SANDS			
5% SILTS			

Aquatic Habitats:

- | | | | |
|---|--|--|----------|
| <input type="checkbox"/> Sand Bar | <input type="checkbox"/> Gravel Riffles | <input type="checkbox"/> In-stream Emergent Plants | % Cover: |
| <input type="checkbox"/> Gravel Bar | <input type="checkbox"/> Deep Pools | <input type="checkbox"/> In-stream Submerged Plants | % Cover: |
| <input type="checkbox"/> Mud Bar | <input checked="" type="checkbox"/> Bank Root Systems | <input checked="" type="checkbox"/> Fringing Wetlands ¹ | |
| <input type="checkbox"/> Undercut Banks | <input checked="" type="checkbox"/> Overhanging Trees/Shrubs | <input type="checkbox"/> None | |

¹Characteristics: PSS

Aquatic Organisms Observed:

FROGS
FISH (JUVENILE)
INVERTEBRATES

Tributary Condition: ☒ Natural ☐ Artificial (Man-Made) ☐ Manipulated

Channel Condition: ☐ Channelization/Braiding ☐ Unnatural Straightening ☐ Downcutting
☐ Dikes/Berms ☐ Excessive Bank Erosion ☒ N/A

Habitat Characteristics, Aquatic, and Terrestrial Diversity Description:

Stream Quality: ☐ High ☒ Moderate ☐ Low

Comments: There is a lot of trash in stream, along banks, and in wetland.

Photos



Photo Name: BR1CS211_042514_1E.jpg

Note: BR-1C-S211



Photo Name: BR1CS211_042514_2W.jpg

Note: BR-1C-S211



Photo Name: BR1CS211_042514_3N.jpg

Note: BR-1C-S211

Waterbody Data Form

Feature ID: BR-1C-S230

Feature Name:

Associated Wetland ID:

☐ Centerline ☒ Re-Route ☐ Access Road ☐ Ancillary Facility ☐ Alternative Route ☐ Other

Centerline ID: Primary Route		Facility Description:	
Date: 2013/10/09	Client/Project Name: Constitution		Latitude/Longitude: 42.009816 , -75.52627
Team: 1C		State/County: NY - Broome	Quad Name: Gulf Summit
Logbook No.: 13	Logbook Page No.: 22	Tract No.: ALT-B-NY-BR-002.001	

Waterbody Type:	<input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Borrow Pit <input checked="" type="checkbox"/> Stream <input type="checkbox"/> Ag. Ditch <input type="checkbox"/> Other
Stream Flow:	<input type="checkbox"/> Fast <input type="checkbox"/> Moderate <input type="checkbox"/> Slow <input checked="" type="checkbox"/> Very Slow <input type="checkbox"/> None
Flow Type:	<input type="checkbox"/> Perennial (Flows year round) <input type="checkbox"/> Intermittent (Flows <3 months) <input type="checkbox"/> None <input type="checkbox"/> Seasonal (Continuous flow ≥ 3 months) <input checked="" type="checkbox"/> Ephemeral (Flows only in response to rainfall)
Direction of Flow:	<input type="checkbox"/> N <input type="checkbox"/> NE <input type="checkbox"/> E <input type="checkbox"/> SE <input type="checkbox"/> S <input type="checkbox"/> SW <input type="checkbox"/> W <input checked="" type="checkbox"/> NW <input type="checkbox"/> No Flow
OHWM Width (ft.):	8
Sinuosity:	<input type="checkbox"/> Braided <input checked="" type="checkbox"/> Meandering <input type="checkbox"/> Straight <input type="checkbox"/> N/A
Stream Width (ft.):	10
Water Surface (At Crossing Location):	4
Stream Depth (in.):	<input type="checkbox"/> 0 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> 3-6 <input type="checkbox"/> 6-12 <input type="checkbox"/> 12-18 <input type="checkbox"/> 18-24 <input type="checkbox"/> 24-36 <input type="checkbox"/> 36-48 <input type="checkbox"/> 48-60 <input type="checkbox"/> 60+
OHWM Indicators: LEAF LITTER DISTURBED SCOUR	
Bank Height (ft.): (Looking Downstream)	Left: <input checked="" type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+ Right: <input checked="" type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+
Bank Slope (%): (Looking Downstream)	Left: Right:

Qualitative Attributes

Water Appearance: <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Sheen on Surface <input type="checkbox"/> Floating Algal mats <input type="checkbox"/> Slightly Turbid <input type="checkbox"/> Very Turbid <input type="checkbox"/> Greenish Color <input type="checkbox"/> Obvious Surface Scum <input type="checkbox"/> No Flow <input type="checkbox"/> Other:																			
Stream Substrate %: 75% COBBLES 5% OTHER - BOULDERS 15% SANDS 5% SILTS																			
Aquatic Habitats: <table border="0"><tr><td><input type="checkbox"/> Sand Bar</td><td><input type="checkbox"/> Gravel Riffles</td><td><input type="checkbox"/> In-stream Emergent Plants</td><td>% Cover:</td></tr><tr><td><input type="checkbox"/> Gravel Bar</td><td><input type="checkbox"/> Deep Pools</td><td><input type="checkbox"/> In-stream Submerged Plants</td><td>% Cover:</td></tr><tr><td><input type="checkbox"/> Mud Bar</td><td><input type="checkbox"/> Bank Root Systems</td><td><input type="checkbox"/> Fringing Wetlands¹</td><td></td></tr><tr><td><input type="checkbox"/> Undercut Banks</td><td><input type="checkbox"/> Overhanging Trees/Shrubs</td><td><input checked="" type="checkbox"/> None</td><td></td></tr></table>				<input type="checkbox"/> Sand Bar	<input type="checkbox"/> Gravel Riffles	<input type="checkbox"/> In-stream Emergent Plants	% Cover:	<input type="checkbox"/> Gravel Bar	<input type="checkbox"/> Deep Pools	<input type="checkbox"/> In-stream Submerged Plants	% Cover:	<input type="checkbox"/> Mud Bar	<input type="checkbox"/> Bank Root Systems	<input type="checkbox"/> Fringing Wetlands ¹		<input type="checkbox"/> Undercut Banks	<input type="checkbox"/> Overhanging Trees/Shrubs	<input checked="" type="checkbox"/> None	
<input type="checkbox"/> Sand Bar	<input type="checkbox"/> Gravel Riffles	<input type="checkbox"/> In-stream Emergent Plants	% Cover:																
<input type="checkbox"/> Gravel Bar	<input type="checkbox"/> Deep Pools	<input type="checkbox"/> In-stream Submerged Plants	% Cover:																
<input type="checkbox"/> Mud Bar	<input type="checkbox"/> Bank Root Systems	<input type="checkbox"/> Fringing Wetlands ¹																	
<input type="checkbox"/> Undercut Banks	<input type="checkbox"/> Overhanging Trees/Shrubs	<input checked="" type="checkbox"/> None																	
¹ Characteristics:																			
Aquatic Organisms Observed: NONE																			

AECOM
95 State Road
Sagamore Beach, MA 02662



Tributary Condition: ☒ Natural ☐ Artificial (Man-Made) ☐ Manipulated

Channel Condition: ☐ Channelization/Braiding ☐ Unnatural Straightening ☐ Downcutting
 ☐ Dikes/Berms ☐ Excessive Bank Erosion ☒ N/A

Habitat Characteristics, Aquatic, and Terrestrial Diversity Description:

Stream Quality: ☐ High ☒ Moderate ☐ Low

Comments:

Photos



Photo Name: BR1CS230_100913_3NE.jpg

Note: BR-1C-S230



Photo Name: BR1CS230_100913_2SE.jpg

Note: BR-1C-S230



Photo Name: BR1CS230_100913_1NW.jpg

Note: BR-1C-S230

Waterbody Data Form

Feature ID: BR-1C-S230A

Feature Name:

Associated Wetland ID:

☐ Centerline ☒ Re-Route ☐ Access Road ☐ Ancillary Facility ☐ Alternative Route ☐ Other

Centerline ID: Primary Route		Facility Description:	
Date: 2013/10/09	Client/Project Name: Constitution		Latitude/Longitude: 42.009838 , -75.52623
Team: 1C		State/County: NY - Broome	Quad Name: Gulf Summit
Logbook No.: 14	Logbook Page No.: 21	Tract No.: ALT-B-NY-BR-002.001	

Waterbody Type: <input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Borrow Pit <input checked="" type="checkbox"/> Stream <input type="checkbox"/> Ag. Ditch <input type="checkbox"/> Other	
Stream Flow: <input type="checkbox"/> Fast <input type="checkbox"/> Moderate <input type="checkbox"/> Slow <input checked="" type="checkbox"/> Very Slow <input type="checkbox"/> None	
Flow Type: <input type="checkbox"/> Perennial (Flows year round) <input type="checkbox"/> Intermittent (Flows <3 months) <input type="checkbox"/> None <input type="checkbox"/> Seasonal (Continuous flow \geq 3 months) <input checked="" type="checkbox"/> Ephemeral (Flows only in response to rainfall)	
Direction of Flow: <input type="checkbox"/> N <input type="checkbox"/> NE <input type="checkbox"/> E <input type="checkbox"/> SE <input type="checkbox"/> S <input type="checkbox"/> SW <input type="checkbox"/> W <input checked="" type="checkbox"/> NW <input type="checkbox"/> No Flow	
OHWM Width (ft.): 2	
Sinuosity: <input type="checkbox"/> Braided <input type="checkbox"/> Meandering <input checked="" type="checkbox"/> Straight <input type="checkbox"/> N/A	
Stream Width (ft.): 3	Water Surface (At Crossing Location): 0.5
Stream Depth (in.): <input type="checkbox"/> 0 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> 3-6 <input type="checkbox"/> 6-12 <input type="checkbox"/> 12-18 <input type="checkbox"/> 18-24 <input type="checkbox"/> 24-36 <input type="checkbox"/> 36-48 <input type="checkbox"/> 48-60 <input type="checkbox"/> 60+	
OHWM Indicators: LEAF LITTER DISTURBED SCOUR	
Bank Height (ft.): (Looking Downstream)	Left: <input checked="" type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+ Right: <input checked="" type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+
Bank Slope (%): (Looking Downstream)	Left: Right:

Qualitative Attributes

Water Appearance: <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Sheen on Surface <input type="checkbox"/> Floating Algal mats <input type="checkbox"/> Slightly Turbid <input type="checkbox"/> Very Turbid <input type="checkbox"/> Greenish Color <input type="checkbox"/> Obvious Surface Scum <input type="checkbox"/> No Flow <input type="checkbox"/> Other:			
Stream Substrate %: 80% COBBLES 5% SANDS 15% SILTS			
Aquatic Habitats: <input type="checkbox"/> Sand Bar <input type="checkbox"/> Gravel Riffles <input type="checkbox"/> In-stream Emergent Plants % Cover: <input type="checkbox"/> Gravel Bar <input type="checkbox"/> Deep Pools <input type="checkbox"/> In-stream Submerged Plants % Cover: <input type="checkbox"/> Mud Bar <input type="checkbox"/> Bank Root Systems <input type="checkbox"/> Fringing Wetlands ¹ <input type="checkbox"/> Undercut Banks <input type="checkbox"/> Overhanging Trees/Shrubs <input checked="" type="checkbox"/> None			
¹ Characteristics:			
Aquatic Organisms Observed: NONE			

AECOM
95 State Road
Sagamore Beach, MA 02662



Tributary Condition: ☒ Natural ☐ Artificial (Man-Made) ☐ Manipulated

Channel Condition: ☐ Channelization/Braiding ☐ Unnatural Straightening ☐ Downcutting
 ☐ Dikes/Berms ☐ Excessive Bank Erosion ☒ N/A

Habitat Characteristics, Aquatic, and Terrestrial Diversity Description:

Stream Quality: ☐ High ☒ Moderate ☐ Low

Comments:

Photos



Photo Name: BR1CS230A_100913_3NE.jpg

Note: BR-1C-S230A



Photo Name: BR1CS230A_100913_2SE.jpg

Note: BR-1C-S230A



Photo Name: BR1CS230A_100913_1NW.jpg

Note: BR-1C-S230A

Waterbody Data Form

Feature ID: BR-1S-S207C

Feature Name:

Associated Wetland ID:

☐ Centerline ☒ Re-Route ☐ Access Road ☐ Ancillary Facility ☐ Alternative Route ☐ Other

Centerline ID: Primary Route		Facility Description:	
Date: 2013/10/09	Client/Project Name: Constitution		Latitude/Longitude: 42.011192 , -75.52571
Team: 1C		State/County: NY - Broome	Quad Name: Gulf Summit
Logbook No.: 13	Logbook Page No.: 24	Tract No.: ALT-B-NY-BR-002.001	

Waterbody Type: <input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Borrow Pit <input checked="" type="checkbox"/> Stream <input type="checkbox"/> Ag. Ditch <input type="checkbox"/> Other	
Stream Flow: <input type="checkbox"/> Fast <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Slow <input type="checkbox"/> Very Slow <input type="checkbox"/> None	
Flow Type: <input checked="" type="checkbox"/> Perennial (Flows year round) <input type="checkbox"/> Intermittent (Flows <3 months) <input type="checkbox"/> None <input type="checkbox"/> Seasonal (Continuous flow ≥ 3 months) <input type="checkbox"/> Ephemeral (Flows only in response to rainfall)	
Direction of Flow: <input type="checkbox"/> N <input type="checkbox"/> NE <input type="checkbox"/> E <input type="checkbox"/> SE <input type="checkbox"/> S <input type="checkbox"/> SW <input checked="" type="checkbox"/> W <input type="checkbox"/> NW <input type="checkbox"/> No Flow	
OHWM Width (ft.): 3	
Sinuosity: <input type="checkbox"/> Braided <input checked="" type="checkbox"/> Meandering <input type="checkbox"/> Straight <input type="checkbox"/> N/A	
Stream Width (ft.): 4	Water Surface (At Crossing Location): 3
Stream Depth (in.): <input type="checkbox"/> 0 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> 3-6 <input type="checkbox"/> 6-12 <input type="checkbox"/> 12-18 <input type="checkbox"/> 18-24 <input type="checkbox"/> 24-36 <input type="checkbox"/> 36-48 <input type="checkbox"/> 48-60 <input type="checkbox"/> 60+	
OHWM Indicators: LEAF LITTER DISTURBED LITTER AND DEBRIS SCOUR	
Bank Height (ft.): (Looking Downstream)	Left: <input checked="" type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+ Right: <input checked="" type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+
Bank Slope (%): (Looking Downstream)	Left: Right:

Qualitative Attributes

Water Appearance:			
<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Turbid	<input type="checkbox"/> Sheen on Surface	<input type="checkbox"/> Floating Algal mats
<input type="checkbox"/> Slightly Turbid	<input type="checkbox"/> Very Turbid	<input type="checkbox"/> Greenish Color	<input type="checkbox"/> Obvious Surface Scum
<input type="checkbox"/> No Flow	<input type="checkbox"/> Other:		
Stream Substrate %:			
60% COBBLES			
25% GRAVEL			
10% SANDS			
5% SILTS			

Aquatic Habitats:

- | | | | |
|---|--|--|----------|
| <input type="checkbox"/> Sand Bar | <input type="checkbox"/> Gravel Riffles | <input type="checkbox"/> In-stream Emergent Plants | % Cover: |
| <input type="checkbox"/> Gravel Bar | <input type="checkbox"/> Deep Pools | <input type="checkbox"/> In-stream Submerged Plants | % Cover: |
| <input type="checkbox"/> Mud Bar | <input type="checkbox"/> Bank Root Systems | <input checked="" type="checkbox"/> Fringing Wetlands ¹ | |
| <input type="checkbox"/> Undercut Banks | <input checked="" type="checkbox"/> Overhanging Trees/Shrubs | <input type="checkbox"/> None | |

¹Characteristics:

Aquatic Organisms Observed:

INVERTEBRATES
FROGS

Tributary Condition: ☒ Natural ☐ Artificial (Man-Made) ☐ Manipulated

Channel Condition: ☐ Channelization/Braiding ☐ Unnatural Straightening ☐ Downcutting
☐ Dikes/Berms ☐ Excessive Bank Erosion ☒ N/A

Habitat Characteristics, Aquatic, and Terrestrial Diversity Description:

Stream Quality: ☐ High ☒ Moderate ☐ Low

Comments:

Photos



Photo Name: BR1SS207C_100913_3N.jpg

Note: BR-1S-S207C



Photo Name: BR1SS207C_100913_2W.jpg

Note: BR-1S-S207C



Photo Name: BR1SS207C_100913_1E.jpg

Note: BR-1S-S207C

Waterbody Data Form

Feature ID: BR-1S-S207D

Feature Name:

Associated Wetland ID: BR-1C-W260

☐ Centerline ☒ Re-Route ☐ Access Road ☐ Ancillary Facility ☐ Alternative Route ☐ Other

Centerline ID: Primary Route		Facility Description:	
Date: 2013/10/09	Client/Project Name: Constitution	Latitude/Longitude: 42.011114 , -75.52587	
Team: 1C	State/County: NY - Broome	Quad Name: Gulf Summit	
Logbook No.: 13	Logbook Page No.: 25	Tract No.: ALT-B-NY-BR-002.001	

Waterbody Type:	<input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Borrow Pit <input checked="" type="checkbox"/> Stream <input type="checkbox"/> Ag. Ditch <input type="checkbox"/> Other
Stream Flow:	<input type="checkbox"/> Fast <input type="checkbox"/> Moderate <input type="checkbox"/> Slow <input type="checkbox"/> Very Slow <input checked="" type="checkbox"/> None
Flow Type:	<input type="checkbox"/> Perennial (Flows year round) <input type="checkbox"/> Intermittent (Flows <3 months) <input type="checkbox"/> None <input type="checkbox"/> Seasonal (Continuous flow ≥ 3 months) <input checked="" type="checkbox"/> Ephemeral (Flows only in response to rainfall)
Direction of Flow:	<input type="checkbox"/> N <input type="checkbox"/> NE <input type="checkbox"/> E <input type="checkbox"/> SE <input type="checkbox"/> S <input checked="" type="checkbox"/> SW <input type="checkbox"/> W <input type="checkbox"/> NW <input type="checkbox"/> No Flow
OHWM Width (ft.):	2
Sinuosity:	<input type="checkbox"/> Braided <input checked="" type="checkbox"/> Meandering <input type="checkbox"/> Straight <input type="checkbox"/> N/A
Stream Width (ft.):	3
Water Surface (At Crossing Location):	0
Stream Depth (in.):	<input checked="" type="checkbox"/> 0 <input type="checkbox"/> 1-3 <input type="checkbox"/> 3-6 <input type="checkbox"/> 6-12 <input type="checkbox"/> 12-18 <input type="checkbox"/> 18-24 <input type="checkbox"/> 24-36 <input type="checkbox"/> 36-48 <input type="checkbox"/> 48-60 <input type="checkbox"/> 60+
OHWM Indicators: LEAF LITTER DISTURBED SCOUR	
Bank Height (ft.): (Looking Downstream)	Left: <input checked="" type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+ Right: <input checked="" type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+
Bank Slope (%): (Looking Downstream)	Left: Right:

Qualitative Attributes

Water Appearance:			
<input type="checkbox"/> Clear	<input type="checkbox"/> Turbid	<input type="checkbox"/> Sheen on Surface	<input type="checkbox"/> Floating Algal mats
<input type="checkbox"/> Slightly Turbid	<input type="checkbox"/> Very Turbid	<input type="checkbox"/> Greenish Color	<input type="checkbox"/> Obvious Surface Scum
<input checked="" type="checkbox"/> No Flow	<input type="checkbox"/> Other:		
Stream Substrate %:			
50% COBBLES			
30% GRAVEL			
5% SANDS			
15% SANDS			
Aquatic Habitats:			
<input type="checkbox"/> Sand Bar	<input type="checkbox"/> Gravel Riffles	<input type="checkbox"/> In-stream Emergent Plants	% Cover:
<input type="checkbox"/> Gravel Bar	<input type="checkbox"/> Deep Pools	<input type="checkbox"/> In-stream Submerged Plants	% Cover:
<input type="checkbox"/> Mud Bar	<input type="checkbox"/> Bank Root Systems	<input checked="" type="checkbox"/> Fringing Wetlands ¹	
<input type="checkbox"/> Undercut Banks	<input type="checkbox"/> Overhanging Trees/Shrubs	<input type="checkbox"/> None	
¹ Characteristics: PFO			
Aquatic Organisms Observed:			
NONE			

AECOM
95 State Road
Sagamore Beach, MA 02662



Tributary Condition: ☒ Natural ☐ Artificial (Man-Made) ☐ Manipulated

Channel Condition: ☐ Channelization/Braiding ☐ Unnatural Straightening ☐ Downcutting
 ☐ Dikes/Berms ☐ Excessive Bank Erosion ☒ N/A

Habitat Characteristics, Aquatic, and Terrestrial Diversity Description:

Stream Quality: ☐ High ☒ Moderate ☐ Low

Comments:

Photos



Photo Name: BR1SS207D_100913_3NW.jpg

Note: BR-1S-S207D



Photo Name: BR1SS207D_100913_2SW.jpg

Note: BR-1S-S207D



Photo Name: BR1SS207D_100913_1NE.jpg

Note: BR-1S-S207D

Waterbody Data Form

Feature ID: BR-1S-S207E

Feature Name:

Associated Wetland ID: BR-1C-W260

☐ Centerline ☒ Re-Route ☐ Access Road ☐ Ancillary Facility ☐ Alternative Route ☐ Other

Centerline ID: Primary Route		Facility Description:	
Date: 2013/10/09	Client/Project Name: Constitution		Latitude/Longitude: 42.011207 , -75.52590
Team: 1C		State/County: NY - Broome	Quad Name: Gulf Summit
Logbook No.: 13	Logbook Page No.: 26	Tract No.: ALT-B-NY-BR-002.001	

Waterbody Type:	<input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Borrow Pit <input checked="" type="checkbox"/> Stream <input type="checkbox"/> Ag. Ditch <input type="checkbox"/> Other
Stream Flow:	<input type="checkbox"/> Fast <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Slow <input type="checkbox"/> Very Slow <input type="checkbox"/> None
Flow Type:	<input type="checkbox"/> Perennial (Flows year round) <input type="checkbox"/> Intermittent (Flows <3 months) <input type="checkbox"/> None <input type="checkbox"/> Seasonal (Continuous flow \geq 3 months) <input checked="" type="checkbox"/> Ephemeral (Flows only in response to rainfall)
Direction of Flow:	<input type="checkbox"/> N <input type="checkbox"/> NE <input type="checkbox"/> E <input type="checkbox"/> SE <input type="checkbox"/> S <input type="checkbox"/> SW <input checked="" type="checkbox"/> W <input type="checkbox"/> NW <input type="checkbox"/> No Flow
OHWM Width (ft.):	3
Sinuosity:	<input type="checkbox"/> Braided <input checked="" type="checkbox"/> Meandering <input type="checkbox"/> Straight <input type="checkbox"/> N/A
Stream Width (ft.):	4
Water Surface (At Crossing Location):	2
Stream Depth (in.):	<input type="checkbox"/> 0 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> 3-6 <input type="checkbox"/> 6-12 <input type="checkbox"/> 12-18 <input type="checkbox"/> 18-24 <input type="checkbox"/> 24-36 <input type="checkbox"/> 36-48 <input type="checkbox"/> 48-60 <input type="checkbox"/> 60+
OHWM Indicators: LEAF LITTER DISTURBED SCOUR	
Bank Height (ft.): (Looking Downstream)	Left: <input checked="" type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+ Right: <input checked="" type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+
Bank Slope (%): (Looking Downstream)	Left: Right:

Qualitative Attributes

Water Appearance:			
<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Turbid	<input type="checkbox"/> Sheen on Surface	<input type="checkbox"/> Floating Algal mats
<input type="checkbox"/> Slightly Turbid	<input type="checkbox"/> Very Turbid	<input type="checkbox"/> Greenish Color	<input type="checkbox"/> Obvious Surface Scum
<input type="checkbox"/> No Flow	<input type="checkbox"/> Other:		
Stream Substrate %:			
50% COBBLES			
30% GRAVEL			
10% SANDS			
5% SILTS			
5% VEGETATION			

Aquatic Habitats:

- | | | | |
|---|---|--|------------|
| <input type="checkbox"/> Sand Bar | <input type="checkbox"/> Gravel Riffles | <input type="checkbox"/> In-stream Emergent Plants | % Cover: 5 |
| <input type="checkbox"/> Gravel Bar | <input type="checkbox"/> Deep Pools | <input type="checkbox"/> In-stream Submerged Plants | % Cover: |
| <input type="checkbox"/> Mud Bar | <input type="checkbox"/> Bank Root Systems | <input checked="" type="checkbox"/> Fringing Wetlands ¹ | |
| <input type="checkbox"/> Undercut Banks | <input type="checkbox"/> Overhanging Trees/Shrubs | <input type="checkbox"/> None | |

¹Characteristics: PFO

Aquatic Organisms Observed:

NONE

Tributary Condition: ☒ Natural ☐ Artificial (Man-Made) ☐ Manipulated

Channel Condition: ☐ Channelization/Braiding ☐ Unnatural Straightening ☐ Downcutting
☐ Dikes/Berms ☐ Excessive Bank Erosion ☒ N/A

Habitat Characteristics, Aquatic, and Terrestrial Diversity Description:

Stream Quality: ☐ High ☒ Moderate ☐ Low

Comments:

Photos



Photo Name: BR1SS207E_100913_3S.jpg

Note: BR-1S-S207E



Photo Name: BR1SS207E_100913_2W.jpg

Note: BR-1S-S207E



Photo Name: BR1SS207E_100913_1E.jpg

Note: BR-1S-S207E

CHENANGO COUNTY

Waterbody Data Form

Feature ID: CH-1C-S010F

Feature Name:

Associated Wetland ID:

☐ Centerline ☒ Re-Route ☐ Access Road ☐ Ancillary Facility ☐ Alternative Route ☐ Other

Centerline ID:		Facility Description:	
Date: 2014/06/06	Client/Project Name: Constitution		Latitude/Longitude: 42.261584 , -75.46229
Team: 1A	State/County: NY - Chenango		Quad Name: Sidney
Logbook No.: 20143	Logbook Page No.: 26	Tract No.: NY-CH-026	

Waterbody Type: <input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Borrow Pit <input checked="" type="checkbox"/> Stream <input type="checkbox"/> Ag. Ditch <input type="checkbox"/> Other	
Stream Flow: <input type="checkbox"/> Fast <input type="checkbox"/> Moderate <input type="checkbox"/> Slow <input type="checkbox"/> Very Slow <input checked="" type="checkbox"/> None	
Flow Type: <input type="checkbox"/> Perennial (Flows year round) <input type="checkbox"/> Intermittent (Flows <3 months) <input type="checkbox"/> None <input type="checkbox"/> Seasonal (Continuous flow \geq 3 months) <input checked="" type="checkbox"/> Ephemeral (Flows only in response to rainfall)	
Direction of Flow: <input checked="" type="checkbox"/> N <input type="checkbox"/> NE <input type="checkbox"/> E <input type="checkbox"/> SE <input type="checkbox"/> S <input type="checkbox"/> SW <input type="checkbox"/> W <input type="checkbox"/> NW <input type="checkbox"/> No Flow	
OHWM Width (ft.): 12	
Sinuosity: <input type="checkbox"/> Braided <input checked="" type="checkbox"/> Meandering <input type="checkbox"/> Straight <input type="checkbox"/> N/A	
Stream Width (ft.): 12	Water Surface (At Crossing Location): 0
Stream Depth (in.): <input checked="" type="checkbox"/> 0 <input type="checkbox"/> 1-3 <input type="checkbox"/> 3-6 <input type="checkbox"/> 6-12 <input type="checkbox"/> 12-18 <input type="checkbox"/> 18-24 <input type="checkbox"/> 24-36 <input type="checkbox"/> 36-48 <input type="checkbox"/> 48-60 <input type="checkbox"/> 60+	
OHWM Indicators: ABRUPT PLANT COMMUNITY CHANGE LITTER AND DEBRIS SOIL CHARACTER CHANGES WRACK LINE	
Bank Height (ft.): (Looking Downstream)	Left: <input checked="" type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+ Right: <input type="checkbox"/> 0-2 <input checked="" type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+
Bank Slope (%): (Looking Downstream)	Left: 40% Right: 40%

Qualitative Attributes

Water Appearance: <input type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Sheen on Surface <input type="checkbox"/> Floating Algal mats <input type="checkbox"/> Slightly Turbid <input type="checkbox"/> Very Turbid <input type="checkbox"/> Greenish Color <input type="checkbox"/> Obvious Surface Scum <input checked="" type="checkbox"/> No Flow <input type="checkbox"/> Other:			
Stream Substrate %: 40% OTHER - Loam 60% SANDS			
Aquatic Habitats: <input type="checkbox"/> Sand Bar <input type="checkbox"/> Gravel Riffles <input type="checkbox"/> In-stream Emergent Plants % Cover: <input type="checkbox"/> Gravel Bar <input type="checkbox"/> Deep Pools <input type="checkbox"/> In-stream Submerged Plants % Cover: <input type="checkbox"/> Mud Bar <input type="checkbox"/> Bank Root Systems <input type="checkbox"/> Fringing Wetlands ¹ <input type="checkbox"/> Undercut Banks <input checked="" type="checkbox"/> Overhanging Trees/Shrubs <input type="checkbox"/> None			
¹ Characteristics:			
Aquatic Organisms Observed: NONE			

Tributary Condition: ☒ Natural ☐ Artificial (Man-Made) ☐ Manipulated

Channel Condition: ☐ Channelization/Braiding ☐ Unnatural Straightening ☐ Downcutting
 ☐ Dikes/Berms ☒ Excessive Bank Erosion ☐ N/A

Habitat Characteristics, Aquatic, and Terrestrial Diversity Description:
Floodplain

Stream Quality: ☐ High ☒ Moderate ☐ Low

Comments:

Photos



Photo Name: CH1CS010F_060614_1S.jpg

Note: CH-1C-S010F



Photo Name: CH1CS010F_060614_2N.jpg

Note: CH-1C-S010F



Photo Name: CH1CS010F_060614_3W.jpg

Note: CH-1C-S010F

DELAWARE COUNTY

Waterbody Data Form

Feature ID: DE-1A-S297

Feature Name:

Associated Wetland ID: DE-1A-W463

☐ Centerline ☐ Re-Route ☒ Access Road ☐ Ancillary Facility ☐ Alternative Route ☐ Other

Centerline ID:		Facility Description:	
Date: 2014/05/20	Client/Project Name: Constitution		Latitude/Longitude: 42.353352 , -75.20543
Team: 1A	State/County: NY - Delaware		Quad Name: Franklin
Logbook No.: 20142	Logbook Page No.: 30	Tract No.: UA-NY-DE-063	

Waterbody Type:	<input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Borrow Pit <input checked="" type="checkbox"/> Stream <input type="checkbox"/> Ag. Ditch <input type="checkbox"/> Other
Stream Flow:	<input type="checkbox"/> Fast <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Slow <input type="checkbox"/> Very Slow <input type="checkbox"/> None
Flow Type:	<input type="checkbox"/> Perennial (Flows year round) <input checked="" type="checkbox"/> Intermittent (Flows <3 months) <input type="checkbox"/> None <input type="checkbox"/> Seasonal (Continuous flow \geq 3 months) <input type="checkbox"/> Ephemeral (Flows only in response to rainfall)
Direction of Flow:	<input type="checkbox"/> N <input type="checkbox"/> NE <input type="checkbox"/> E <input type="checkbox"/> SE <input checked="" type="checkbox"/> S <input type="checkbox"/> SW <input type="checkbox"/> W <input type="checkbox"/> NW <input type="checkbox"/> No Flow
OHWM Width (ft.):	4
Sinuosity:	<input type="checkbox"/> Braided <input checked="" type="checkbox"/> Meandering <input type="checkbox"/> Straight <input type="checkbox"/> N/A
Stream Width (ft.):	4
Water Surface (At Crossing Location):	2
Stream Depth (in.):	<input type="checkbox"/> 0 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> 3-6 <input type="checkbox"/> 6-12 <input type="checkbox"/> 12-18 <input type="checkbox"/> 18-24 <input type="checkbox"/> 24-36 <input type="checkbox"/> 36-48 <input type="checkbox"/> 48-60 <input type="checkbox"/> 60+
OHWM Indicators: ABRUPT PLANT COMMUNITY CHANGE SOIL CHARACTER CHANGES	
Bank Height (ft.): (Looking Downstream)	Left: <input checked="" type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+ Right: <input checked="" type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+
Bank Slope (%): (Looking Downstream)	Left: 90 Right: 90

Qualitative Attributes

Water Appearance:			
<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Turbid	<input type="checkbox"/> Sheen on Surface	<input type="checkbox"/> Floating Algal Mats
<input type="checkbox"/> Slightly Turbid	<input type="checkbox"/> Very Turbid	<input type="checkbox"/> Greenish Color	<input type="checkbox"/> Obvious Surface Scum
<input type="checkbox"/> No Flow	<input type="checkbox"/> Other:		
Stream Substrate %:			
50% GRAVEL			
50% SANDS			
Aquatic Habitats:			
<input type="checkbox"/> Sand Bar	<input type="checkbox"/> Gravel Riffles	<input type="checkbox"/> In-stream Emergent Plants	% Cover:
<input type="checkbox"/> Gravel Bar	<input type="checkbox"/> Deep Pools	<input type="checkbox"/> In-stream Submerged Plants	% Cover:
<input type="checkbox"/> Mud Bar	<input type="checkbox"/> Bank Root Systems	<input checked="" type="checkbox"/> Fringing Wetlands ¹	
<input checked="" type="checkbox"/> Undercut Banks	<input checked="" type="checkbox"/> Overhanging Trees/Shrubs	<input type="checkbox"/> None	
¹ Characteristics: PFO			
Aquatic Organisms Observed:			
NONE			

AECOM

95 State Road

Sagamore Beach, MA 02662



Tributary Condition: ☐ Natural ☐ Artificial (Man-Made) ☒ Manipulated

Channel Condition: ☐ Channelization/Braiding ☐ Unnatural Straightening ☐ Downcutting
 ☐ Dikes/Berms ☐ Excessive Bank Erosion ☒ N/A

Habitat Characteristics, Aquatic, and Terrestrial Diversity Description:

Excavated in sections

Stream Quality: ☐ High ☐ Moderate ☒ Low

Comments:

Photos



Photo Name: DE1AS297_052014_1N.jpg

Note: DE-1A-S297



Photo Name: DE1AS297_052014_2S.jpg

Note: DE-1A-S297



Photo Name: DE1AS297_052014_3E.jpg

Note: DE-1A-S297

Waterbody Data Form

Feature ID: DE-1A-S301

Feature Name:

Associated Wetland ID: DE-1A-W473; W474; 475

☒ Centerline ☐ Re-Route ☐ Access Road ☐ Ancillary Facility ☐ Alternative Route ☐ Other

Centerline ID:		Facility Description:	
Date: 2014/05/30	Client/Project Name: Constitution		Latitude/Longitude: 42.354578 , -75.23166
Team: 1A	State/County: NY - Delaware		Quad Name: Franklin
Logbook No.: 2	Logbook Page No.: 138	Tract No.: NY-DE-050.000	

Waterbody Type:	<input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Borrow Pit <input checked="" type="checkbox"/> Stream <input type="checkbox"/> Ag. Ditch <input type="checkbox"/> Other
Stream Flow:	<input type="checkbox"/> Fast <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Slow <input type="checkbox"/> Very Slow <input type="checkbox"/> None
Flow Type:	<input type="checkbox"/> Perennial (Flows year round) <input checked="" type="checkbox"/> Intermittent (Flows <3 months) <input type="checkbox"/> None <input type="checkbox"/> Seasonal (Continuous flow \geq 3 months) <input type="checkbox"/> Ephemeral (Flows only in response to rainfall)
Direction of Flow:	<input checked="" type="checkbox"/> N <input type="checkbox"/> NE <input type="checkbox"/> E <input type="checkbox"/> SE <input type="checkbox"/> S <input type="checkbox"/> SW <input type="checkbox"/> W <input type="checkbox"/> NW <input type="checkbox"/> No Flow
OHWM Width (ft.):	8
Sinuosity:	<input type="checkbox"/> Braided <input checked="" type="checkbox"/> Meandering <input type="checkbox"/> Straight <input type="checkbox"/> N/A
Stream Width (ft.):	8
Water Surface (At Crossing Location):	2
Stream Depth (in.):	<input type="checkbox"/> 0 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> 3-6 <input type="checkbox"/> 6-12 <input type="checkbox"/> 12-18 <input type="checkbox"/> 18-24 <input type="checkbox"/> 24-36 <input type="checkbox"/> 36-48 <input type="checkbox"/> 48-60 <input type="checkbox"/> 60+
OHWM Indicators: ABRUPT PLANT COMMUNITY CHANGE SOIL CHARACTER CHANGES	
Bank Height (ft.): (Looking Downstream)	Left: <input checked="" type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+ Right: <input checked="" type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+
Bank Slope (%): (Looking Downstream)	Left: 20 Right: 20

Qualitative Attributes

Water Appearance:			
<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Turbid	<input type="checkbox"/> Sheen on Surface	<input type="checkbox"/> Floating Algal Mats
<input type="checkbox"/> Slightly Turbid	<input type="checkbox"/> Very Turbid	<input type="checkbox"/> Greenish Color	<input type="checkbox"/> Obvious Surface Scum
<input type="checkbox"/> No Flow	<input type="checkbox"/> Other:		
Stream Substrate %: 30% MUCK - organic 70% SILTS			
Aquatic Habitats:			
<input type="checkbox"/> Sand Bar	<input type="checkbox"/> Gravel Riffles	<input type="checkbox"/> In-stream Emergent Plants	% Cover:
<input type="checkbox"/> Gravel Bar	<input type="checkbox"/> Deep Pools	<input type="checkbox"/> In-stream Submerged Plants	% Cover:
<input type="checkbox"/> Mud Bar	<input type="checkbox"/> Bank Root Systems	<input checked="" type="checkbox"/> Fringing Wetlands ¹	
<input type="checkbox"/> Undercut Banks	<input checked="" type="checkbox"/> Overhanging Trees/Shrubs	<input type="checkbox"/> None	
¹ Characteristics: PFO			
Aquatic Organisms Observed: NONE			

AECOM
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Sagamore Beach, MA 02662



Tributary Condition: ☒ Natural ☐ Artificial (Man-Made) ☐ Manipulated

Channel Condition: ☐ Channelization/Braiding ☐ Unnatural Straightening ☐ Downcutting
 ☐ Dikes/Berms ☐ Excessive Bank Erosion ☒ N/A

Habitat Characteristics, Aquatic, and Terrestrial Diversity Description:

Stream Quality: ☐ High ☐ Moderate ☒ Low

Comments: Diffuse

Photos



Photo Name: DE1AS301_053014_3SE.jpg

Note: DE-1C-S301



Photo Name: DE1AS301_053014_2NE.jpg

Note: DE-1C-S301



Photo Name: DE1AS301_053014_1SW.jpg

Note: DE-1C-S301

Waterbody Data Form

Feature ID: DE-1B-S263A

Feature Name:

Associated Wetland ID: DE-1B-W327

☒ Centerline ☐ Re-Route ☐ Access Road ☐ Ancillary Facility ☐ Alternative Route ☐ Other

Centerline ID: Primary Route		Facility Description:	
Date: 2013/08/12	Client/Project Name: Constitution	Latitude/Longitude: 42.423880 , -74.96536	
Team: 1B	State/County: NY - Delaware	Quad Name: West Davenport	
Logbook No.: 3	Logbook Page No.: 12	Tract No.: NY-DE-141.006	

Waterbody Type:	<input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Borrow Pit <input checked="" type="checkbox"/> Stream <input type="checkbox"/> Ag. Ditch <input type="checkbox"/> Other
Stream Flow:	<input type="checkbox"/> Fast <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Slow <input type="checkbox"/> Very Slow <input type="checkbox"/> None
Flow Type:	<input type="checkbox"/> Perennial (Flows year round) <input checked="" type="checkbox"/> Intermittent (Flows <3 months) <input type="checkbox"/> None <input type="checkbox"/> Seasonal (Continuous flow ≥ 3 months) <input type="checkbox"/> Ephemeral (Flows only in response to rainfall)
Direction of Flow:	<input type="checkbox"/> N <input checked="" type="checkbox"/> NE <input type="checkbox"/> E <input type="checkbox"/> SE <input type="checkbox"/> S <input type="checkbox"/> SW <input type="checkbox"/> W <input type="checkbox"/> NW <input type="checkbox"/> No Flow
OHWM Width (ft.):	3
Sinuosity:	<input type="checkbox"/> Braided <input type="checkbox"/> Meandering <input checked="" type="checkbox"/> Straight <input type="checkbox"/> N/A
Stream Width (ft.):	3
Water Surface (At Crossing Location):	1
Stream Depth (in.):	<input type="checkbox"/> 0 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> 3-6 <input type="checkbox"/> 6-12 <input type="checkbox"/> 12-18 <input type="checkbox"/> 18-24 <input type="checkbox"/> 24-36 <input type="checkbox"/> 36-48 <input type="checkbox"/> 48-60 <input type="checkbox"/> 60+
OHWM Indicators:	SCOUR
Bank Height (ft.): (Looking Downstream)	Left: <input checked="" type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+ Right: <input checked="" type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+
Bank Slope (%): (Looking Downstream)	Left: 50% Right: 50%

Qualitative Attributes

Water Appearance:	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Sheen on Surface <input type="checkbox"/> Floating Algal Mats <input type="checkbox"/> Slightly Turbid <input type="checkbox"/> Very Turbid <input type="checkbox"/> Greenish Color <input type="checkbox"/> Obvious Surface Scum <input type="checkbox"/> No Flow <input type="checkbox"/> Other:
Stream Substrate %:	30% COBBLES 70% SILTS
Aquatic Habitats:	<input type="checkbox"/> Sand Bar <input type="checkbox"/> Gravel Riffles <input type="checkbox"/> In-stream Emergent Plants % Cover: <input type="checkbox"/> Gravel Bar <input type="checkbox"/> Deep Pools <input type="checkbox"/> In-stream Submerged Plants % Cover: <input type="checkbox"/> Mud Bar <input type="checkbox"/> Bank Root Systems <input checked="" type="checkbox"/> Fringing Wetlands ¹ <input type="checkbox"/> Undercut Banks <input checked="" type="checkbox"/> Overhanging Trees/Shrubs <input type="checkbox"/> None
¹ Characteristics:	PFO/PEM
Aquatic Organisms Observed:	NONE

AECOM

95 State Road

Sagamore Beach, MA 02662



Tributary Condition: ☒ Natural ☐ Artificial (Man-Made) ☐ Manipulated

Channel Condition: ☐ Channelization/Braiding ☐ Unnatural Straightening ☐ Downcutting
☐ Dikes/Berms ☐ Excessive Bank Erosion ☒ N/A

Habitat Characteristics, Aquatic, and Terrestrial Diversity Description:

Stream Quality: ☒ High ☐ Moderate ☐ Low

Comments:

Photos



Photo Name: DE1BS263A_081213_3SE.jpg

Note: DE-1B-S263A



Photo Name: DE1BS263A_081213_2NE.jpg

Note: DE-1B-S263A



Photo Name: DE1BS263A_081213_1SW.jpg

Note: DE-1B-S263A

Waterbody Data Form

Feature ID: DE-1B-S263B

Feature Name:

Associated Wetland ID: DE-1B-W327

☒ Centerline ☐ Re-Route ☐ Access Road ☐ Ancillary Facility ☐ Alternative Route ☐ Other

Centerline ID: Primary Route		Facility Description:	
Date: 2013/08/12	Client/Project Name: Constitution	Latitude/Longitude: 42.423842 , -74.96527	
Team: 1B	State/County: NY - Delaware	Quad Name: West Davenport	
Logbook No.: 3	Logbook Page No.: 13	Tract No.: NY-DE-141.006	

Waterbody Type:	<input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Borrow Pit <input checked="" type="checkbox"/> Stream <input type="checkbox"/> Ag. Ditch <input type="checkbox"/> Other
Stream Flow:	<input type="checkbox"/> Fast <input type="checkbox"/> Moderate <input type="checkbox"/> Slow <input type="checkbox"/> Very Slow <input checked="" type="checkbox"/> None
Flow Type:	<input type="checkbox"/> Perennial (Flows year round) <input checked="" type="checkbox"/> Intermittent (Flows <3 months) <input type="checkbox"/> None <input type="checkbox"/> Seasonal (Continuous flow ≥ 3 months) <input type="checkbox"/> Ephemeral (Flows only in response to rainfall)
Direction of Flow:	<input type="checkbox"/> N <input checked="" type="checkbox"/> NE <input type="checkbox"/> E <input type="checkbox"/> SE <input type="checkbox"/> S <input type="checkbox"/> SW <input type="checkbox"/> W <input type="checkbox"/> NW <input type="checkbox"/> No Flow
OHWM Width (ft.):	4
Sinuosity:	<input type="checkbox"/> Braided <input type="checkbox"/> Meandering <input checked="" type="checkbox"/> Straight <input type="checkbox"/> N/A
Stream Width (ft.):	4
Water Surface (At Crossing Location):	0
Stream Depth (in.):	<input checked="" type="checkbox"/> 0 <input type="checkbox"/> 1-3 <input type="checkbox"/> 3-6 <input type="checkbox"/> 6-12 <input type="checkbox"/> 12-18 <input type="checkbox"/> 18-24 <input type="checkbox"/> 24-36 <input type="checkbox"/> 36-48 <input type="checkbox"/> 48-60 <input type="checkbox"/> 60+
OHWM Indicators:	SCOUR
Bank Height (ft.): (Looking Downstream)	Left: <input checked="" type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+ Right: <input checked="" type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+
Bank Slope (%): (Looking Downstream)	Left: 30% Right: 30%

Qualitative Attributes

Water Appearance:	<input type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Sheen on Surface <input type="checkbox"/> Floating Algal mats <input type="checkbox"/> Slightly Turbid <input type="checkbox"/> Very Turbid <input type="checkbox"/> Greenish Color <input type="checkbox"/> Obvious Surface Scum <input checked="" type="checkbox"/> No Flow <input type="checkbox"/> Other:
Stream Substrate %:	50% COBBLES 50% SILTS
Aquatic Habitats:	<input type="checkbox"/> Sand Bar <input type="checkbox"/> Gravel Riffles <input type="checkbox"/> In-stream Emergent Plants % Cover: 20 <input type="checkbox"/> Gravel Bar <input type="checkbox"/> Deep Pools <input type="checkbox"/> In-stream Submerged Plants % Cover: <input type="checkbox"/> Mud Bar <input type="checkbox"/> Bank Root Systems <input checked="" type="checkbox"/> Fringing Wetlands ¹ <input type="checkbox"/> Undercut Banks <input checked="" type="checkbox"/> Overhanging Trees/Shrubs <input type="checkbox"/> None
¹ Characteristics:	
Aquatic Organisms Observed:	NONE

AECOM

95 State Road

Sagamore Beach, MA 02662



Tributary Condition: ☒ Natural ☐ Artificial (Man-Made) ☐ Manipulated

Channel Condition: ☐ Channelization/Braiding ☐ Unnatural Straightening ☐ Downcutting
☐ Dikes/Berms ☐ Excessive Bank Erosion ☒ N/A

Habitat Characteristics, Aquatic, and Terrestrial Diversity Description:

Stream Quality: ☒ High ☐ Moderate ☐ Low

Comments:

Photos



Photo Name: DE1BS263B_081213_3SE.jpg

Note: DE-1B-S263B



Photo Name: DE1BS263B_081213_2NE.jpg

Note: DE-1B-S263B



Photo Name: DE1BS263B_081213_1SW.jpg

Note: DE-1B-S263B

Waterbody Data Form

Feature ID: DE-1C-S273A

Feature Name:

Associated Wetland ID: DE-1C-W363

☒ Centerline ☐ Re-Route ☐ Access Road ☐ Ancillary Facility ☐ Alternative Route ☐ Other

Centerline ID: Primary Route		Facility Description:	
Date: 2013/12/12	Client/Project Name: Constitution	Latitude/Longitude: 42.374895 , -75.15183	
Team: 1C	State/County: NY - Delaware	Quad Name: Franklin	
Logbook No.: 14	Logbook Page No.: 56	Tract No.: NY-DE-080.000	

Waterbody Type:	<input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Borrow Pit <input checked="" type="checkbox"/> Stream <input type="checkbox"/> Ag. Ditch <input type="checkbox"/> Other
Stream Flow:	<input type="checkbox"/> Fast <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Slow <input type="checkbox"/> Very Slow <input type="checkbox"/> None
Flow Type:	<input checked="" type="checkbox"/> Perennial (Flows year round) <input type="checkbox"/> Intermittent (Flows <3 months) <input type="checkbox"/> None <input type="checkbox"/> Seasonal (Continuous flow ≥ 3 months) <input type="checkbox"/> Ephemeral (Flows only in response to rainfall)
Direction of Flow:	<input type="checkbox"/> N <input type="checkbox"/> NE <input type="checkbox"/> E <input checked="" type="checkbox"/> SE <input type="checkbox"/> S <input type="checkbox"/> SW <input type="checkbox"/> W <input type="checkbox"/> NW <input type="checkbox"/> No Flow
OHWM Width (ft.):	3
Sinuosity:	<input type="checkbox"/> Braided <input type="checkbox"/> Meandering <input checked="" type="checkbox"/> Straight <input type="checkbox"/> N/A
Stream Width (ft.):	5
Water Surface (At Crossing Location):	3
Stream Depth (in.):	<input type="checkbox"/> 0 <input type="checkbox"/> 1-3 <input type="checkbox"/> 3-6 <input checked="" type="checkbox"/> 6-12 <input type="checkbox"/> 12-18 <input type="checkbox"/> 18-24 <input type="checkbox"/> 24-36 <input type="checkbox"/> 36-48 <input type="checkbox"/> 48-60 <input type="checkbox"/> 60+
OHWM Indicators:	BENT, MATTED OR MISSING VEGETATION SCOUR
Bank Height (ft.): (Looking Downstream)	Left: <input checked="" type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+ Right: <input checked="" type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+
Bank Slope (%): (Looking Downstream)	Left: 1:1 Right: 1:1

Qualitative Attributes

Water Appearance:	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Sheen on Surface <input type="checkbox"/> Floating Algal Mats <input type="checkbox"/> Slightly Turbid <input type="checkbox"/> Very Turbid <input type="checkbox"/> Greenish Color <input type="checkbox"/> Obvious Surface Scum <input type="checkbox"/> No Flow <input type="checkbox"/> Other:
Stream Substrate %:	60% MUCK 40% VEGETATION
Aquatic Habitats:	<input type="checkbox"/> Sand Bar <input type="checkbox"/> Gravel Riffles <input checked="" type="checkbox"/> In-stream Emergent Plants % Cover: 40 <input type="checkbox"/> Gravel Bar <input type="checkbox"/> Deep Pools <input type="checkbox"/> In-stream Submerged Plants % Cover: <input type="checkbox"/> Mud Bar <input type="checkbox"/> Bank Root Systems <input checked="" type="checkbox"/> Fringing Wetlands ¹ <input type="checkbox"/> Undercut Banks <input type="checkbox"/> Overhanging Trees/Shrubs <input type="checkbox"/> None
¹ Characteristics:	PSS
Aquatic Organisms Observed:	FROGS INVERTEBRATES

AECOM
95 State Road
Sagamore Beach, MA 02662



Tributary Condition: ☒ Natural ☐ Artificial (Man-Made) ☐ Manipulated

Channel Condition: ☐ Channelization/Braiding ☐ Unnatural Straightening ☐ Downcutting
 ☐ Dikes/Berms ☐ Excessive Bank Erosion ☒ N/A

Habitat Characteristics, Aquatic, and Terrestrial Diversity Description:

Stream Quality: ☐ High ☒ Moderate ☐ Low

Comments:

Photos



Photo Name: DE1CS273A_121213_3NE.jpg

Note: DE-1C-S273A



Photo Name: DE1CS273A_121213_2SE.jpg

Note: DE-1C-S273A



Photo Name: DE1CS273A_121213_1NW.jpg

Note: DE-1C-S273A

Waterbody Data Form

Feature ID: DE-1C-S274

Feature Name:

Associated Wetland ID: DE-1C-W329

☒ Centerline ☐ Re-Route ☐ Access Road ☐ Ancillary Facility ☐ Alternative Route ☐ Other

Centerline ID: Primary Route		Facility Description:	
Date: 2013/12/12	Client/Project Name: Constitution		Latitude/Longitude: 42.403596 , -75.09168
Team: 1C		State/County: - NY	Quad Name: Oneonta
Logbook No.: 14	Logbook Page No.: 62	Tract No.: NY-DE-097.000	

Waterbody Type:	<input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Borrow Pit <input checked="" type="checkbox"/> Stream <input type="checkbox"/> Ag. Ditch <input type="checkbox"/> Other
Stream Flow:	<input type="checkbox"/> Fast <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Slow <input type="checkbox"/> Very Slow <input type="checkbox"/> None
Flow Type:	<input type="checkbox"/> Perennial (Flows year round) <input checked="" type="checkbox"/> Intermittent (Flows <3 months) <input type="checkbox"/> None <input type="checkbox"/> Seasonal (Continuous flow ≥ 3 months) <input type="checkbox"/> Ephemeral (Flows only in response to rainfall)
Direction of Flow:	<input type="checkbox"/> N <input type="checkbox"/> NE <input type="checkbox"/> E <input checked="" type="checkbox"/> SE <input type="checkbox"/> S <input type="checkbox"/> SW <input type="checkbox"/> W <input type="checkbox"/> NW <input type="checkbox"/> No Flow
OHWM Width (ft.):	2
Sinuosity:	<input type="checkbox"/> Braided <input type="checkbox"/> Meandering <input checked="" type="checkbox"/> Straight <input type="checkbox"/> N/A
Stream Width (ft.):	2
Water Surface (At Crossing Location):	2
Stream Depth (in.):	<input type="checkbox"/> 0 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> 3-6 <input type="checkbox"/> 6-12 <input type="checkbox"/> 12-18 <input type="checkbox"/> 18-24 <input type="checkbox"/> 24-36 <input type="checkbox"/> 36-48 <input type="checkbox"/> 48-60 <input type="checkbox"/> 60+
OHWM Indicators: CLEAR NATURAL LINE ON BANK SCOUR	
Bank Height (ft.): (Looking Downstream)	Left: <input checked="" type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+ Right: <input checked="" type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+
Bank Slope (%): (Looking Downstream)	Left: 1:1 Right: 1:1

Qualitative Attributes

Water Appearance:	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Sheen on Surface <input type="checkbox"/> Floating Algal mats
<input type="checkbox"/> Slightly Turbid <input type="checkbox"/> Very Turbid <input type="checkbox"/> Greenish Color <input type="checkbox"/> Obvious Surface Scum	
<input type="checkbox"/> No Flow <input type="checkbox"/> Other:	
Stream Substrate %: 30% COBBLES 30% GRAVEL 20% SANDS 20% SILTS	

Aquatic Habitats:

- | | | | |
|---|---|--|----------|
| <input type="checkbox"/> Sand Bar | <input type="checkbox"/> Gravel Riffles | <input type="checkbox"/> In-stream Emergent Plants | % Cover: |
| <input type="checkbox"/> Gravel Bar | <input type="checkbox"/> Deep Pools | <input type="checkbox"/> In-stream Submerged Plants | % Cover: |
| <input type="checkbox"/> Mud Bar | <input type="checkbox"/> Bank Root Systems | <input checked="" type="checkbox"/> Fringing Wetlands ¹ | |
| <input type="checkbox"/> Undercut Banks | <input type="checkbox"/> Overhanging Trees/Shrubs | <input type="checkbox"/> None | |

¹Characteristics: PFO

Aquatic Organisms Observed:

FROGS
INVERTEBRATES

Tributary Condition: ☒ Natural ☐ Artificial (Man-Made) ☐ Manipulated

Channel Condition: ☐ Channelization/Braiding ☐ Unnatural Straightening ☐ Downcutting
☐ Dikes/Berms ☐ Excessive Bank Erosion ☒ N/A

Habitat Characteristics, Aquatic, and Terrestrial Diversity Description:

Stream Quality: ☐ High ☒ Moderate ☐ Low

Comments:

Photos



Photo Name: DE1CS274_121213_3SW.jpg

Note: DE-1C-S274



Photo Name: DE1CS274_121213_2SE.jpg

Note: DE-1C-S274



Photo Name: DE1CS274_121213_1NW.jpg

Note: DE-1C-S274

Waterbody Data Form

Feature ID: DE-1C-S275

Feature Name:

Associated Wetland ID: DE-1C-W329

☒ Centerline ☐ Re-Route ☐ Access Road ☐ Ancillary Facility ☐ Alternative Route ☐ Other

Centerline ID: Primary Route		Facility Description:	
Date: 2013/12/12	Client/Project Name: Constitution		Latitude/Longitude: 42.403065 , -75.09219
Team: 1C		State/County: - NY	Quad Name: Oneonta
Logbook No.: 14	Logbook Page No.: 63	Tract No.: NY-DE-097.000	

Waterbody Type: <input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Borrow Pit <input checked="" type="checkbox"/> Stream <input type="checkbox"/> Ag. Ditch <input type="checkbox"/> Other	
Stream Flow: <input type="checkbox"/> Fast <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Slow <input type="checkbox"/> Very Slow <input type="checkbox"/> None	
Flow Type: <input type="checkbox"/> Perennial (Flows year round) <input checked="" type="checkbox"/> Intermittent (Flows <3 months) <input type="checkbox"/> None <input type="checkbox"/> Seasonal (Continuous flow ≥ 3 months) <input type="checkbox"/> Ephemeral (Flows only in response to rainfall)	
Direction of Flow: <input type="checkbox"/> N <input type="checkbox"/> NE <input type="checkbox"/> E <input type="checkbox"/> SE <input checked="" type="checkbox"/> S <input type="checkbox"/> SW <input type="checkbox"/> W <input type="checkbox"/> NW <input type="checkbox"/> No Flow	
OHWM Width (ft.): 3	
Sinuosity: <input type="checkbox"/> Braided <input type="checkbox"/> Meandering <input checked="" type="checkbox"/> Straight <input type="checkbox"/> N/A	
Stream Width (ft.): 6	Water Surface (At Crossing Location): 3
Stream Depth (in.): <input type="checkbox"/> 0 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> 3-6 <input type="checkbox"/> 6-12 <input type="checkbox"/> 12-18 <input type="checkbox"/> 18-24 <input type="checkbox"/> 24-36 <input type="checkbox"/> 36-48 <input type="checkbox"/> 48-60 <input type="checkbox"/> 60+	
OHWM Indicators: CLEAR NATURAL LINE ON BANK SCOUR	
Bank Height (ft.): (Looking Downstream)	Left: <input checked="" type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+ Right: <input checked="" type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+
Bank Slope (%): (Looking Downstream)	Left: 2:1 Right: 2:1

Qualitative Attributes

Water Appearance:			
<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Turbid	<input type="checkbox"/> Sheen on Surface	<input type="checkbox"/> Floating Algal mats
<input type="checkbox"/> Slightly Turbid	<input type="checkbox"/> Very Turbid	<input type="checkbox"/> Greenish Color	<input type="checkbox"/> Obvious Surface Scum
<input type="checkbox"/> No Flow	<input type="checkbox"/> Other:		
Stream Substrate %:			
35% COBBLES			
30% GRAVEL			
10% SANDS			
10% SANDS			
15% VEGETATION			

Aquatic Habitats:

- | | | | |
|---|---|--|----------|
| <input type="checkbox"/> Sand Bar | <input type="checkbox"/> Gravel Riffles | <input type="checkbox"/> In-stream Emergent Plants | % Cover: |
| <input type="checkbox"/> Gravel Bar | <input type="checkbox"/> Deep Pools | <input type="checkbox"/> In-stream Submerged Plants | % Cover: |
| <input type="checkbox"/> Mud Bar | <input type="checkbox"/> Bank Root Systems | <input checked="" type="checkbox"/> Fringing Wetlands ¹ | |
| <input type="checkbox"/> Undercut Banks | <input type="checkbox"/> Overhanging Trees/Shrubs | <input type="checkbox"/> None | |

¹Characteristics: PFO/PEM

Aquatic Organisms Observed:

FROGS

INVERTEBRATES

Tributary Condition: ☒ Natural ☐ Artificial (Man-Made) ☐ Manipulated

Channel Condition: ☐ Channelization/Braiding ☐ Unnatural Straightening ☐ Downcutting
☐ Dikes/Berms ☐ Excessive Bank Erosion ☒ N/A

Habitat Characteristics, Aquatic, and Terrestrial Diversity Description:

Stream Quality: ☐ High ☒ Moderate ☐ Low

Comments:

Photos



Photo Name: DE1CS275_121213_3W.jpg

Note: DE-1C-S275



Photo Name: DE1CS275_121213_2S.jpg

Note: DE-1C-S275



Photo Name: DE1CS275_121213_1N.jpg

Note: DE-1C-S275

Waterbody Data Form

Feature ID: DE-1C-S283BR

Feature Name:

Associated Wetland ID: DE-1C-W338-BR

☐ Centerline ☐ Re-Route ☒ Access Road ☐ Ancillary Facility ☐ Alternative Route ☐ Other

Centerline ID: Primary Route		Facility Description:	
Date: 2013/09/13	Client/Project Name: Constitution		Latitude/Longitude: 42.286057 , -75.35866
Team: 1C	State/County: NY - Delaware		Quad Name: Unadilla
Logbook No.: 12	Logbook Page No.: 62	Tract No.: UA-NY-DE-013.001.AR	

Waterbody Type:	<input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Borrow Pit <input checked="" type="checkbox"/> Stream <input type="checkbox"/> Ag. Ditch <input type="checkbox"/> Other
Stream Flow:	<input type="checkbox"/> Fast <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Slow <input type="checkbox"/> Very Slow <input type="checkbox"/> None
Flow Type:	<input type="checkbox"/> Perennial (Flows year round) <input type="checkbox"/> Intermittent (Flows <3 months) <input type="checkbox"/> None <input type="checkbox"/> Seasonal (Continuous flow ≥ 3 months) <input checked="" type="checkbox"/> Ephemeral (Flows only in response to rainfall)
Direction of Flow:	<input type="checkbox"/> N <input type="checkbox"/> NE <input type="checkbox"/> E <input type="checkbox"/> SE <input checked="" type="checkbox"/> S <input type="checkbox"/> SW <input type="checkbox"/> W <input type="checkbox"/> NW <input type="checkbox"/> No Flow
OHWM Width (ft.):	2
Sinuosity:	<input type="checkbox"/> Braided <input checked="" type="checkbox"/> Meandering <input type="checkbox"/> Straight <input type="checkbox"/> N/A
Stream Width (ft.):	3
Water Surface (At Crossing Location):	1
Stream Depth (in.):	<input type="checkbox"/> 0 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> 3-6 <input type="checkbox"/> 6-12 <input type="checkbox"/> 12-18 <input type="checkbox"/> 18-24 <input type="checkbox"/> 24-36 <input type="checkbox"/> 36-48 <input type="checkbox"/> 48-60 <input type="checkbox"/> 60+
OHWM Indicators:	CLEAR NATURAL LINE ON BANK
Bank Height (ft.): (Looking Downstream)	Left: <input checked="" type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+ Right: <input checked="" type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+
Bank Slope (%): (Looking Downstream)	Left: 1:1 Right: 1:1

Qualitative Attributes

Water Appearance:	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Sheen on Surface <input type="checkbox"/> Floating Algal Mats <input type="checkbox"/> Slightly Turbid <input type="checkbox"/> Very Turbid <input type="checkbox"/> Greenish Color <input type="checkbox"/> Obvious Surface Scum <input type="checkbox"/> No Flow <input type="checkbox"/> Other:
Stream Substrate %:	10% COBBLES 45% GRAVEL 45% SILTS
Aquatic Habitats:	<input type="checkbox"/> Sand Bar <input type="checkbox"/> Gravel Riffles <input type="checkbox"/> In-stream Emergent Plants % Cover: <input type="checkbox"/> Gravel Bar <input type="checkbox"/> Deep Pools <input type="checkbox"/> In-stream Submerged Plants % Cover: <input type="checkbox"/> Mud Bar <input type="checkbox"/> Bank Root Systems <input checked="" type="checkbox"/> Fringing Wetlands ¹ <input type="checkbox"/> Undercut Banks <input type="checkbox"/> Overhanging Trees/Shrubs <input type="checkbox"/> None
¹ Characteristics:	PEM
Aquatic Organisms Observed:	FROGS

AECOM
95 State Road
Sagamore Beach, MA 02662



Tributary Condition: ☒ Natural ☐ Artificial (Man-Made) ☐ Manipulated

Channel Condition: ☐ Channelization/Braiding ☐ Unnatural Straightening ☐ Downcutting
 ☐ Dikes/Berms ☐ Excessive Bank Erosion ☒ N/A

Habitat Characteristics, Aquatic, and Terrestrial Diversity Description:

Stream Quality: ☐ High ☒ Moderate ☐ Low

Comments:

Photos



Photo Name: DE1CS283-BR_091313_3E.jpg

Note: DE-1C-S283BR



Photo Name: DE1CS283-BR_091313_2S.jpg

Note: DE-1C-S283BR



Photo Name: DE1CS283-BR_091313_1N.jpg

Note: DE-1C-S283BR

Waterbody Data Form

Feature ID: DE-1C-S284BR

Feature Name:

Associated Wetland ID:

☐ Centerline ☐ Re-Route ☒ Access Road ☐ Ancillary Facility ☐ Alternative Route ☐ Other

Centerline ID: Primary Route		Facility Description:	
Date: 2013/09/13	Client/Project Name: Constitution		Latitude/Longitude: 42.286176 , -75.35776
Team: 1C		State/County: NY - Delaware	Quad Name: Unadilla
Logbook No.: 12	Logbook Page No.: 66	Tract No.: UA-NY-DE-013.001.AR	

Waterbody Type:	<input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Borrow Pit <input checked="" type="checkbox"/> Stream <input type="checkbox"/> Ag. Ditch <input type="checkbox"/> Other
Stream Flow:	<input type="checkbox"/> Fast <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Slow <input type="checkbox"/> Very Slow <input type="checkbox"/> None
Flow Type:	<input checked="" type="checkbox"/> Perennial (Flows year round) <input type="checkbox"/> Intermittent (Flows <3 months) <input type="checkbox"/> None <input type="checkbox"/> Seasonal (Continuous flow ≥ 3 months) <input type="checkbox"/> Ephemeral (Flows only in response to rainfall)
Direction of Flow:	<input type="checkbox"/> N <input type="checkbox"/> NE <input type="checkbox"/> E <input type="checkbox"/> SE <input type="checkbox"/> S <input checked="" type="checkbox"/> SW <input type="checkbox"/> W <input type="checkbox"/> NW <input type="checkbox"/> No Flow
OHWM Width (ft.):	12
Sinuosity:	<input type="checkbox"/> Braided <input type="checkbox"/> Meandering <input checked="" type="checkbox"/> Straight <input type="checkbox"/> N/A
Stream Width (ft.):	16
Water Surface (At Crossing Location):	10
Stream Depth (in.):	<input type="checkbox"/> 0 <input type="checkbox"/> 1-3 <input checked="" type="checkbox"/> 3-6 <input type="checkbox"/> 6-12 <input type="checkbox"/> 12-18 <input type="checkbox"/> 18-24 <input type="checkbox"/> 24-36 <input type="checkbox"/> 36-48 <input type="checkbox"/> 48-60 <input type="checkbox"/> 60+
OHWM Indicators: CLEAR NATURAL LINE ON BANK SCOUR	
Bank Height (ft.): (Looking Downstream)	Left: <input checked="" type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+ Right: <input checked="" type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+
Bank Slope (%): (Looking Downstream)	Left: 1:1 Right: 2:1

Qualitative Attributes

Water Appearance:			
<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Turbid	<input type="checkbox"/> Sheen on Surface	<input type="checkbox"/> Floating Algal mats
<input type="checkbox"/> Slightly Turbid	<input type="checkbox"/> Very Turbid	<input type="checkbox"/> Greenish Color	<input type="checkbox"/> Obvious Surface Scum
<input type="checkbox"/> No Flow	<input type="checkbox"/> Other:		
Stream Substrate %:			
65% COBBLES			
20% GRAVEL			
5% SANDS			
10% SILTS			

Aquatic Habitats:

- | | | | |
|--|---|---|----------|
| <input type="checkbox"/> Sand Bar | <input type="checkbox"/> Gravel Riffles | <input type="checkbox"/> In-stream Emergent Plants | % Cover: |
| <input type="checkbox"/> Gravel Bar | <input type="checkbox"/> Deep Pools | <input type="checkbox"/> In-stream Submerged Plants | % Cover: |
| <input type="checkbox"/> Mud Bar | <input checked="" type="checkbox"/> Bank Root Systems | <input type="checkbox"/> Fringing Wetlands ¹ | |
| <input checked="" type="checkbox"/> Undercut Banks | <input type="checkbox"/> Overhanging Trees/Shrubs | <input type="checkbox"/> None | |

¹Characteristics:

Aquatic Organisms Observed:

FROGS

INVERTEBRATES

Tributary Condition:

- ☒ Natural ☐ Artificial (Man-Made) ☐ Manipulated

Channel Condition:

- | | | |
|--|--|---|
| <input type="checkbox"/> Channelization/Braiding | <input type="checkbox"/> Unnatural Straightening | <input type="checkbox"/> Downcutting |
| <input type="checkbox"/> Dikes/Berms | <input type="checkbox"/> Excessive Bank Erosion | <input checked="" type="checkbox"/> N/A |

Habitat Characteristics, Aquatic, and Terrestrial Diversity Description:

Stream Quality:

- ☐ High ☒ Moderate ☐ Low

Comments:

Photos



Photo Name: DE1CS284-BR_091313_3NW.jpg

Note: DE-1C-S284BR

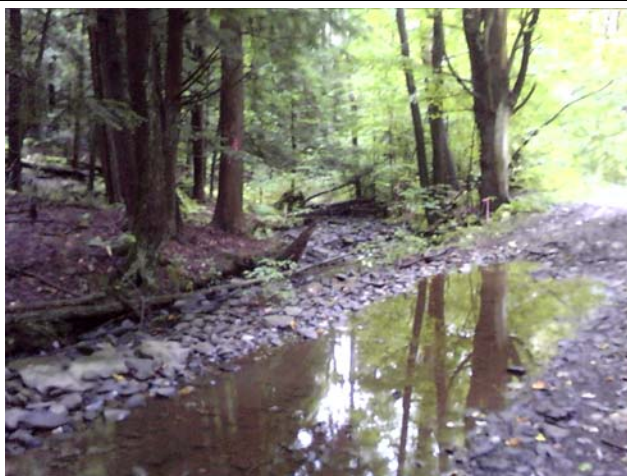


Photo Name: DE1CS284-BR_091313_2SW.jpg

Note: DE-1C-S284BR

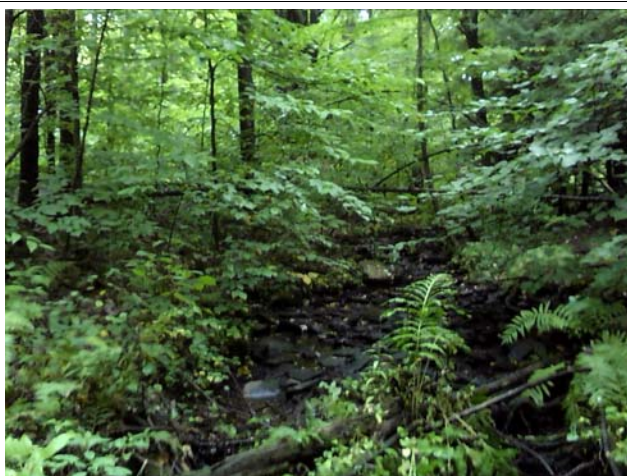


Photo Name: DE1CS284-BR_091313_1NE.jpg

Note: DE-1C-S284BR

Waterbody Data Form

Feature ID: DE-1C-S287

Feature Name:

Associated Wetland ID: DE-1D-W281

☒ Centerline ☐ Re-Route ☐ Access Road ☐ Ancillary Facility ☐ Alternative Route ☐ Other

Centerline ID:		Facility Description:	
Date: 2014/04/24	Client/Project Name: Constitution		Latitude/Longitude: 42.362419 , -75.18722
Team: 1C	State/County: NY - Delaware		Quad Name: Franklin
Logbook No.: 15	Logbook Page No.: 8	Tract No.: NY-DE-071.000	

Waterbody Type: <input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Borrow Pit <input checked="" type="checkbox"/> Stream <input type="checkbox"/> Ag. Ditch <input type="checkbox"/> Other	
Stream Flow: <input type="checkbox"/> Fast <input type="checkbox"/> Moderate <input type="checkbox"/> Slow <input type="checkbox"/> Very Slow <input checked="" type="checkbox"/> None	
Flow Type: <input type="checkbox"/> Perennial (Flows year round) <input type="checkbox"/> Intermittent (Flows <3 months) <input type="checkbox"/> None <input type="checkbox"/> Seasonal (Continuous flow ≥ 3 months) <input checked="" type="checkbox"/> Ephemeral (Flows only in response to rainfall)	
Direction of Flow: <input type="checkbox"/> N <input type="checkbox"/> NE <input type="checkbox"/> E <input checked="" type="checkbox"/> SE <input type="checkbox"/> S <input type="checkbox"/> SW <input type="checkbox"/> W <input type="checkbox"/> NW <input type="checkbox"/> No Flow	
OHWM Width (ft.): 30	
Sinuosity: <input type="checkbox"/> Braided <input type="checkbox"/> Meandering <input checked="" type="checkbox"/> Straight <input type="checkbox"/> N/A	
Stream Width (ft.): 32	Water Surface (At Crossing Location): 0
Stream Depth (in.): <input checked="" type="checkbox"/> 0 <input type="checkbox"/> 1-3 <input type="checkbox"/> 3-6 <input type="checkbox"/> 6-12 <input type="checkbox"/> 12-18 <input type="checkbox"/> 18-24 <input type="checkbox"/> 24-36 <input type="checkbox"/> 36-48 <input type="checkbox"/> 48-60 <input type="checkbox"/> 60+	
OHWM Indicators: BENT, MATTED OR MISSING VEGETATION LEAF LITTER DISTURBED SCOUR	
Bank Height (ft.): (Looking Downstream)	Left: <input checked="" type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+ Right: <input checked="" type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+
Bank Slope (%): (Looking Downstream)	Left: 1:1 Right: 1:1

Qualitative Attributes

Water Appearance: <input type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Sheen on Surface <input type="checkbox"/> Floating Algal mats <input type="checkbox"/> Slightly Turbid <input type="checkbox"/> Very Turbid <input type="checkbox"/> Greenish Color <input type="checkbox"/> Obvious Surface Scum <input checked="" type="checkbox"/> No Flow <input type="checkbox"/> Other:			
Stream Substrate %: 10% OTHER - stone 10% SILTS 80% VEGETATION			
Aquatic Habitats: <input type="checkbox"/> Sand Bar <input type="checkbox"/> Gravel Riffles <input type="checkbox"/> In-stream Emergent Plants % Cover: <input type="checkbox"/> Gravel Bar <input type="checkbox"/> Deep Pools <input type="checkbox"/> In-stream Submerged Plants % Cover: <input type="checkbox"/> Mud Bar <input type="checkbox"/> Bank Root Systems <input type="checkbox"/> Fringing Wetlands¹ <input type="checkbox"/> Undercut Banks <input type="checkbox"/> Overhanging Trees/Shrubs <input checked="" type="checkbox"/> None			
¹Characteristics: PFO			
Aquatic Organisms Observed: NONE			

Tributary Condition: ☒ Natural ☐ Artificial (Man-Made) ☐ Manipulated

Channel Condition: ☐ Channelization/Braiding ☐ Unnatural Straightening ☐ Downcutting
☐ Dikes/Berms ☐ Excessive Bank Erosion ☒ N/A

Habitat Characteristics, Aquatic, and Terrestrial Diversity Description:

Stream Quality: ☐ High ☒ Moderate ☐ Low

Comments: Braided stream channel that is not well defined

Photos



Photo Name: DE1CS287_042414_3SW.jpg

Note: DE-1C-S287



Photo Name: DE1CS287_042414_2SE.jpg

Note: DE-1C-S287



Photo Name: DE1CS287_042414_1NW.jpg

Note: DE-1C-S287

Waterbody Data Form

Feature ID: DE-1C-S289

Feature Name:

Associated Wetland ID: DE-1M-W154

☒ Centerline ☐ Re-Route ☐ Access Road ☐ Ancillary Facility ☐ Alternative Route ☐ Other

Centerline ID:		Facility Description:	
Date: 2014/05/05	Client/Project Name: Constitution		Latitude/Longitude: 42.422618 , -74.98903
Team: 1C	State/County: NY - Delaware		Quad Name: West Davenport
Logbook No.: 15	Logbook Page No.: 56	Tract No.: NY-DE-131.000	

Waterbody Type:	<input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Borrow Pit <input checked="" type="checkbox"/> Stream <input type="checkbox"/> Ag. Ditch <input type="checkbox"/> Other
Stream Flow:	<input type="checkbox"/> Fast <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Slow <input type="checkbox"/> Very Slow <input type="checkbox"/> None
Flow Type:	<input type="checkbox"/> Perennial (Flows year round) <input checked="" type="checkbox"/> Intermittent (Flows <3 months) <input type="checkbox"/> None <input type="checkbox"/> Seasonal (Continuous flow ≥ 3 months) <input type="checkbox"/> Ephemeral (Flows only in response to rainfall)
Direction of Flow:	<input type="checkbox"/> N <input type="checkbox"/> NE <input type="checkbox"/> E <input type="checkbox"/> SE <input type="checkbox"/> S <input type="checkbox"/> SW <input type="checkbox"/> W <input checked="" type="checkbox"/> NW <input type="checkbox"/> No Flow
OHWM Width (ft.):	1
Sinuosity:	<input type="checkbox"/> Braided <input type="checkbox"/> Meandering <input checked="" type="checkbox"/> Straight <input type="checkbox"/> N/A
Stream Width (ft.):	2
Water Surface (At Crossing Location):	1
Stream Depth (in.):	<input type="checkbox"/> 0 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> 3-6 <input type="checkbox"/> 6-12 <input type="checkbox"/> 12-18 <input type="checkbox"/> 18-24 <input type="checkbox"/> 24-36 <input type="checkbox"/> 36-48 <input type="checkbox"/> 48-60 <input type="checkbox"/> 60+
OHWM Indicators: LEAF LITTER DISTURBED SCOUR	
Bank Height (ft.): (Looking Downstream)	Left: <input checked="" type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+ Right: <input checked="" type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+
Bank Slope (%): (Looking Downstream)	Left: 3:1 Right: 3:1

Qualitative Attributes

Water Appearance:			
<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Turbid	<input type="checkbox"/> Sheen on Surface	<input type="checkbox"/> Floating Algal Mats
<input type="checkbox"/> Slightly Turbid	<input type="checkbox"/> Very Turbid	<input type="checkbox"/> Greenish Color	<input type="checkbox"/> Obvious Surface Scum
<input type="checkbox"/> No Flow	<input type="checkbox"/> Other:		
Stream Substrate %:			
20% BEDROCK			
30% GRAVEL			
35% OTHER - Stones			
15% SILTS			
Aquatic Habitats:			
<input type="checkbox"/> Sand Bar	<input type="checkbox"/> Gravel Riffles	<input type="checkbox"/> In-stream Emergent Plants	% Cover:
<input type="checkbox"/> Gravel Bar	<input type="checkbox"/> Deep Pools	<input type="checkbox"/> In-stream Submerged Plants	% Cover:
<input type="checkbox"/> Mud Bar	<input type="checkbox"/> Bank Root Systems	<input checked="" type="checkbox"/> Fringing Wetlands ¹	
<input type="checkbox"/> Undercut Banks	<input type="checkbox"/> Overhanging Trees/Shrubs	<input type="checkbox"/> None	
¹ Characteristics: PFO			
Aquatic Organisms Observed:			
NONE			

Tributary Condition: ☐ Natural ☐ Artificial (Man-Made) ☒ Manipulated

Channel Condition: ☐ Channelization/Braiding ☐ Unnatural Straightening ☐ Downcutting
☐ Dikes/Berms ☐ Excessive Bank Erosion ☒ N/A

Habitat Characteristics, Aquatic, and Terrestrial Diversity Description:

Stream Quality: ☐ High ☐ Moderate ☒ Low

Comments: stream in old road

Photos



Photo Name: DE1CS289_050514_3NE.jpg

Note: DE-1C-S289



Photo Name: DE1CS289_050514_2NW.jpg

Note: DE-1C-S289



Photo Name: DE1CS289_050514_1S.jpg

Note: DE-1C-S289

Waterbody Data Form

Feature ID: DE-1C-S290

Feature Name:

Associated Wetland ID: DE-1C-W376

☒ Centerline ☐ Re-Route ☐ Access Road ☐ Ancillary Facility ☐ Alternative Route ☐ Other

Centerline ID:		Facility Description:	
Date: 2014/05/06	Client/Project Name: Constitution	Latitude/Longitude: 42.422111, -74.99008	
Team: 1C	State/County: NY - Delaware	Quad Name: West Davenport	
Logbook No.: 15	Logbook Page No.: 62	Tract No.: NY-DE-131.000	

Waterbody Type:	<input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Borrow Pit <input checked="" type="checkbox"/> Stream <input type="checkbox"/> Ag. Ditch <input type="checkbox"/> Other
Stream Flow:	<input type="checkbox"/> Fast <input type="checkbox"/> Moderate <input type="checkbox"/> Slow <input checked="" type="checkbox"/> Very Slow <input type="checkbox"/> None
Flow Type:	<input type="checkbox"/> Perennial (Flows year round) <input type="checkbox"/> Intermittent (Flows <3 months) <input type="checkbox"/> None <input type="checkbox"/> Seasonal (Continuous flow ≥ 3 months) <input checked="" type="checkbox"/> Ephemeral (Flows only in response to rainfall)
Direction of Flow:	<input type="checkbox"/> N <input type="checkbox"/> NE <input type="checkbox"/> E <input type="checkbox"/> SE <input type="checkbox"/> S <input type="checkbox"/> SW <input checked="" type="checkbox"/> W <input type="checkbox"/> NW <input type="checkbox"/> No Flow
OHWM Width (ft.):	2
Sinuosity:	<input type="checkbox"/> Braided <input checked="" type="checkbox"/> Meandering <input type="checkbox"/> Straight <input type="checkbox"/> N/A
Stream Width (ft.):	2.5
Water Surface (At Crossing Location):	0.75
Stream Depth (in.):	<input type="checkbox"/> 0 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> 3-6 <input type="checkbox"/> 6-12 <input type="checkbox"/> 12-18 <input type="checkbox"/> 18-24 <input type="checkbox"/> 24-36 <input type="checkbox"/> 36-48 <input type="checkbox"/> 48-60 <input type="checkbox"/> 60+
OHWM Indicators:	LEAF LITTER DISTURBED SCOUR
Bank Height (ft.): (Looking Downstream)	Left: <input checked="" type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+ Right: <input checked="" type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+
Bank Slope (%): (Looking Downstream)	Left: 4:1 Right: 4:1

Qualitative Attributes

Water Appearance:	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Sheen on Surface <input type="checkbox"/> Floating Algal Mats <input type="checkbox"/> Slightly Turbid <input type="checkbox"/> Very Turbid <input type="checkbox"/> Greenish Color <input type="checkbox"/> Obvious Surface Scum <input type="checkbox"/> No Flow <input type="checkbox"/> Other:
Stream Substrate %:	20% COBBLES 20% GRAVEL 60% OTHER - Loam
Aquatic Habitats:	<input type="checkbox"/> Sand Bar <input type="checkbox"/> Gravel Riffles <input type="checkbox"/> In-stream Emergent Plants % Cover: <input type="checkbox"/> Gravel Bar <input type="checkbox"/> Deep Pools <input type="checkbox"/> In-stream Submerged Plants % Cover: <input type="checkbox"/> Mud Bar <input type="checkbox"/> Bank Root Systems <input checked="" type="checkbox"/> Fringing Wetlands ¹ <input type="checkbox"/> Undercut Banks <input type="checkbox"/> Overhanging Trees/Shrubs <input type="checkbox"/> None
¹ Characteristics:	PFO
Aquatic Organisms Observed:	NONE

Tributary Condition: ☒ Natural ☐ Artificial (Man-Made) ☐ Manipulated

Channel Condition: ☐ Channelization/Braiding ☐ Unnatural Straightening ☐ Downcutting
☐ Dikes/Berms ☐ Excessive Bank Erosion ☒ N/A

Habitat Characteristics, Aquatic, and Terrestrial Diversity Description:

Stream Quality: ☐ High ☐ Moderate ☒ Low

Comments:

Photos



Photo Name: DE1CS290_050614_3N.jpg

Note: DE-1C-S290



Photo Name: DE1CS290_050614_2W.jpg

Note: DE-1C-S290



Photo Name: DE1CS290_050614_1E.jpg

Note: DE-1C-S290

Waterbody Data Form

Feature ID: DE-1C-S303

Feature Name:

Associated Wetland ID:

☒ Centerline ☐ Re-Route ☐ Access Road ☐ Ancillary Facility ☐ Alternative Route ☐ Other

Centerline ID:		Facility Description:	
Date: 2014/06/04	Client/Project Name: Constitution		Latitude/Longitude: 42.350208 , -75.24490
Team:		State/County: NY - Delaware	Quad Name: Franklin
Logbook No.: 15	Logbook Page No.: 128	Tract No.: NY-DE-049.000	

Waterbody Type:	<input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Borrow Pit <input type="checkbox"/> Stream <input type="checkbox"/> Ag. Ditch <input checked="" type="checkbox"/> Other	Roadside ditch
Stream Flow:	<input type="checkbox"/> Fast <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Slow <input type="checkbox"/> Very Slow <input type="checkbox"/> None	
Flow Type:	<input type="checkbox"/> Perennial (Flows year round) <input checked="" type="checkbox"/> Intermittent (Flows <3 months) <input type="checkbox"/> None <input type="checkbox"/> Seasonal (Continuous flow ≥ 3 months) <input type="checkbox"/> Ephemeral (Flows only in response to rainfall)	
Direction of Flow:	<input type="checkbox"/> N <input type="checkbox"/> NE <input type="checkbox"/> E <input type="checkbox"/> SE <input type="checkbox"/> S <input type="checkbox"/> SW <input checked="" type="checkbox"/> W <input type="checkbox"/> NW <input type="checkbox"/> No Flow	
OHWM Width (ft.):	3	
Sinuosity:	<input type="checkbox"/> Braided <input type="checkbox"/> Meandering <input checked="" type="checkbox"/> Straight <input type="checkbox"/> N/A	
Stream Width (ft.):	5	Water Surface (At Crossing Location): 2
Stream Depth (in.):	<input type="checkbox"/> 0 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> 3-6 <input type="checkbox"/> 6-12 <input type="checkbox"/> 12-18 <input type="checkbox"/> 18-24 <input type="checkbox"/> 24-36 <input type="checkbox"/> 36-48 <input type="checkbox"/> 48-60 <input type="checkbox"/> 60+	
OHWM Indicators:	CLEAR NATURAL LINE ON BANK LEAF LITTER DISTURBED SCOUR	
Bank Height (ft.): (Looking Downstream)	Left: <input checked="" type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+ Right: <input type="checkbox"/> 0-2 <input checked="" type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+	
Bank Slope (%): (Looking Downstream)	Left: 3:1 Right: 3:1	

Qualitative Attributes

Water Appearance:	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Sheen on Surface <input type="checkbox"/> Floating Algal mats <input type="checkbox"/> Slightly Turbid <input type="checkbox"/> Very Turbid <input type="checkbox"/> Greenish Color <input type="checkbox"/> Obvious Surface Scum <input type="checkbox"/> No Flow <input type="checkbox"/> Other:
Stream Substrate %:	30% GRAVEL 50% OTHER - Stone 15% SANDS 5% SILTS

Aquatic Habitats:

- | | | | |
|---|---|--|----------|
| <input type="checkbox"/> Sand Bar | <input type="checkbox"/> Gravel Riffles | <input type="checkbox"/> In-stream Emergent Plants | % Cover: |
| <input type="checkbox"/> Gravel Bar | <input type="checkbox"/> Deep Pools | <input type="checkbox"/> In-stream Submerged Plants | % Cover: |
| <input type="checkbox"/> Mud Bar | <input type="checkbox"/> Bank Root Systems | <input checked="" type="checkbox"/> Fringing Wetlands ¹ | |
| <input type="checkbox"/> Undercut Banks | <input type="checkbox"/> Overhanging Trees/Shrubs | <input type="checkbox"/> None | |

¹Characteristics:

Aquatic Organisms Observed:

NONE

Tributary Condition: ☐ Natural ☒ Artificial (Man-Made) ☐ Manipulated

Channel Condition: ☐ Channelization/Braiding ☐ Unnatural Straightening ☐ Downcutting
☐ Dikes/Berms ☐ Excessive Bank Erosion ☒ N/A

Habitat Characteristics, Aquatic, and Terrestrial Diversity Description:

Ditch

Stream Quality: ☐ High ☐ Moderate ☒ Low

Comments:

Photos



Photo Name: DE1CS303_060414_1E.jpg

Note: DE-1C-S303



Photo Name: DE1CS303_060414_2W.jpg

Note: DE-1C-S303



Photo Name: DE1CS303_060414_3N.jpg

Note: DE-1C-S303

Waterbody Data Form

Feature ID: DE-1G-S005

Feature Name:

Associated Wetland ID:

☒ Centerline ☐ Re-Route ☐ Access Road ☐ Ancillary Facility ☐ Alternative Route ☐ Other

Centerline ID: Primary Route		Facility Description:	
Date: 2012/07/20	Client/Project Name: Constitution	Latitude/Longitude: 42.504018 , -74.72490	
Team: 1G	State/County: NY - Delaware	Quad Name: Charlotteville	
Logbook No.: 2	Logbook Page No.: 66	Tract No.: NY-DE-231.000	

Waterbody Type:	<input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Borrow Pit <input checked="" type="checkbox"/> Stream <input type="checkbox"/> Ag. Ditch <input type="checkbox"/> Other
Stream Flow:	<input type="checkbox"/> Fast <input type="checkbox"/> Moderate <input type="checkbox"/> Slow <input type="checkbox"/> Very Slow <input checked="" type="checkbox"/> None
Flow Type:	<input type="checkbox"/> Perennial (Flows year round) <input checked="" type="checkbox"/> Intermittent (Flows <3 months) <input type="checkbox"/> None <input type="checkbox"/> Seasonal (Continuous flow ≥ 3 months) <input type="checkbox"/> Ephemeral (Flows only in response to rainfall)
Direction of Flow:	<input checked="" type="checkbox"/> N <input type="checkbox"/> NE <input type="checkbox"/> E <input type="checkbox"/> SE <input type="checkbox"/> S <input type="checkbox"/> SW <input type="checkbox"/> W <input type="checkbox"/> NW <input type="checkbox"/> No Flow
OHWM Width (ft.):	10
Sinuosity:	<input type="checkbox"/> Braided <input checked="" type="checkbox"/> Meandering <input type="checkbox"/> Straight <input type="checkbox"/> N/A
Stream Width (ft.):	20
Water Surface (At Crossing Location):	0
Stream Depth (in.):	<input checked="" type="checkbox"/> 0 <input type="checkbox"/> 1-3 <input type="checkbox"/> 3-6 <input type="checkbox"/> 6-12 <input type="checkbox"/> 12-18 <input type="checkbox"/> 18-24 <input type="checkbox"/> 24-36 <input type="checkbox"/> 36-48 <input type="checkbox"/> 48-60 <input type="checkbox"/> 60+
OHWM Indicators:	SHELVING
Bank Height (ft.): (Looking Downstream)	Left: <input checked="" type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+ Right: <input checked="" type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+
Bank Slope: (Looking Downstream)	Left: <input type="checkbox"/> 4:1 <input type="checkbox"/> 3:1 <input type="checkbox"/> 2:1 <input type="checkbox"/> 1:1 <input checked="" type="checkbox"/> Vertical Right: <input type="checkbox"/> 4:1 <input type="checkbox"/> 3:1 <input type="checkbox"/> 2:1 <input type="checkbox"/> 1:1 <input checked="" type="checkbox"/> Vertical

Qualitative Attributes

Water Appearance:	<input type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Sheen on Surface <input type="checkbox"/> Floating Algal mats <input type="checkbox"/> Slightly Turbid <input type="checkbox"/> Very Turbid <input type="checkbox"/> Greenish Color <input type="checkbox"/> Obvious Surface Scum <input checked="" type="checkbox"/> No Flow <input type="checkbox"/> Other:
Stream Substrate %:	60% BEDROCK - 40% COBBLES -
Aquatic Habitats:	<input type="checkbox"/> Sand Bar <input checked="" type="checkbox"/> Gravel Riffles <input type="checkbox"/> In-stream Emergent Plants % Cover: 0 <input type="checkbox"/> Gravel Bar <input checked="" type="checkbox"/> Deep Pools <input type="checkbox"/> In-stream Submerged Plants % Cover: 0 <input type="checkbox"/> Mud Bar <input checked="" type="checkbox"/> Bank Root Systems <input type="checkbox"/> Fringing Wetlands ¹ <input type="checkbox"/> Undercut Banks <input checked="" type="checkbox"/> Overhanging Trees/Shrubs <input type="checkbox"/> None
¹ Characteristics:	
Aquatic Organisms Observed:	FROGS



Tributary Condition:	<input checked="" type="checkbox"/> Natural	<input type="checkbox"/> Artificial (Man-Made)	<input type="checkbox"/> Manipulated
Channel Condition:	<input type="checkbox"/> Channelization/Braiding	<input type="checkbox"/> Unnatural Straightening	<input type="checkbox"/> Downcutting
	<input type="checkbox"/> Dikes/Berms	<input type="checkbox"/> Excessive Bank Erosion	<input checked="" type="checkbox"/> N/A

Habitat Characteristics, Aquatic, and Terrestrial Diversity Description:

Stream Quality: ☒ High ☐ Moderate ☐ Low

Comments:

Photos



Photo Name: DE1G_S005_20120720_3W.jpg

Note: DE-1G-S005



Photo Name: DE1G_S005_20120720_2N.jpg

Note: DE-1G-S005



Photo Name: DE1G_S005_20120720_1S.jpg

Note: DE-1G-S005

Waterbody Data Form

Feature ID: DE-1G-S201A

Feature Name:

Associated Wetland ID:

☒ Centerline ☐ Re-Route ☐ Access Road ☐ Ancillary Facility ☐ Alternative Route ☐ Other

Centerline ID:		Facility Description: TRIB TO DE-1I-S201	
Date: 2013/03/29	Client/Project Name: Constitution		Latitude/Longitude: -74.90186 , 42.434071
Team: 1G		State/County: NY - Delaware	Quad Name: West Davenport
Logbook No.: 7	Logbook Page No.: 68	Tract No.: UA-NY-DE-158.003	

Waterbody Type:	<input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Borrow Pit <input checked="" type="checkbox"/> Stream <input type="checkbox"/> Ag. Ditch <input type="checkbox"/> Other
Stream Flow:	<input type="checkbox"/> Fast <input type="checkbox"/> Moderate <input type="checkbox"/> Slow <input checked="" type="checkbox"/> Very Slow <input type="checkbox"/> None
Flow Type:	<input type="checkbox"/> Perennial (Flows year round) <input checked="" type="checkbox"/> Intermittent (Flows <3 months) <input type="checkbox"/> None <input type="checkbox"/> Seasonal (Continuous flow \geq 3 months) <input type="checkbox"/> Ephemeral (Flows only in response to rainfall)
Direction of Flow:	<input type="checkbox"/> N <input type="checkbox"/> NE <input type="checkbox"/> E <input type="checkbox"/> SE <input type="checkbox"/> S <input type="checkbox"/> SW <input type="checkbox"/> W <input checked="" type="checkbox"/> NW <input type="checkbox"/> No Flow
OHWM Width (ft.):	9
Sinuosity:	<input type="checkbox"/> Braided <input type="checkbox"/> Meandering <input checked="" type="checkbox"/> Straight <input type="checkbox"/> N/A
Stream Width (ft.):	10
Water Surface (At Crossing Location):	3
Stream Depth (in.):	<input type="checkbox"/> 0 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> 3-6 <input type="checkbox"/> 6-12 <input type="checkbox"/> 12-18 <input type="checkbox"/> 18-24 <input type="checkbox"/> 24-36 <input type="checkbox"/> 36-48 <input type="checkbox"/> 48-60 <input type="checkbox"/> 60+
OHWM Indicators: CLEAR NATURAL LINE ON BANK WRACK LINE	
Bank Height (ft.): (Looking Downstream)	Left: <input type="checkbox"/> 0-2 <input checked="" type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+ Right: <input type="checkbox"/> 0-2 <input checked="" type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+
Bank Slope (%): (Looking Downstream)	Left: 100% Right: 60%

Qualitative Attributes

Water Appearance:			
<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Turbid	<input type="checkbox"/> Sheen on Surface	<input type="checkbox"/> Floating Algal Mats
<input type="checkbox"/> Slightly Turbid	<input type="checkbox"/> Very Turbid	<input type="checkbox"/> Greenish Color	<input type="checkbox"/> Obvious Surface Scum
<input type="checkbox"/> No Flow	<input type="checkbox"/> Other:		
Stream Substrate %: 70% COBBLES 20% GRAVEL 10% SILTS			
Aquatic Habitats:			
<input type="checkbox"/> Sand Bar	<input type="checkbox"/> Gravel Riffles	<input type="checkbox"/> In-stream Emergent Plants	% Cover:
<input type="checkbox"/> Gravel Bar	<input type="checkbox"/> Deep Pools	<input type="checkbox"/> In-stream Submerged Plants	% Cover:
<input type="checkbox"/> Mud Bar	<input type="checkbox"/> Bank Root Systems	<input type="checkbox"/> Fringing Wetlands ¹	
<input type="checkbox"/> Undercut Banks	<input checked="" type="checkbox"/> Overhanging Trees/Shrubs	<input type="checkbox"/> None	
¹ Characteristics:			
Aquatic Organisms Observed: INVERTEBRATES			

Tributary Condition: ☒ Natural ☐ Artificial (Man-Made) ☐ Manipulated

Channel Condition: ☐ Channelization/Braiding ☐ Unnatural Straightening ☐ Downcutting
☐ Dikes/Berms ☐ Excessive Bank Erosion ☒ N/A

Habitat Characteristics, Aquatic, and Terrestrial Diversity Description:

Stream Quality: ☐ High ☒ Moderate ☐ Low

Comments: TRIBUTARY TO DE-1I-S201

Photos



Photo Name: DE1GS201A_032919_3W.jpg

Note: DE-1G-S201A



Photo Name: DE1GS201A_032919_2NW.jpg

Note: DE-1G-S201A



Photo Name: DE1GS201A_032919_1SE.jpg

Note: DE-1G-S201A

Waterbody Data Form

Feature ID: DE-11-S201

Feature Name:

Associated Wetland ID:

☒ Centerline ☐ Re-Route ☐ Access Road ☐ Ancillary Facility ☐ Alternative Route ☐ Other

Centerline ID:		Facility Description:	
Date: 2013/03/29	Client/Project Name: Constitution		Latitude/Longitude: -74.90211, 42.433911
Team: 11	State/County: NY - Delaware		Quad Name: West Davenport
Logbook No.: 1	Logbook Page No.: 90	Tract No.: UA-NY-DE-158.003	

Waterbody Type:	<input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Borrow Pit <input checked="" type="checkbox"/> Stream <input type="checkbox"/> Ag. Ditch <input type="checkbox"/> Other
Stream Flow:	<input checked="" type="checkbox"/> Fast <input type="checkbox"/> Moderate <input type="checkbox"/> Slow <input type="checkbox"/> Very Slow <input type="checkbox"/> None
Flow Type:	<input checked="" type="checkbox"/> Perennial (Flows year round) <input type="checkbox"/> Intermittent (Flows <3 months) <input type="checkbox"/> None <input type="checkbox"/> Seasonal (Continuous flow ≥ 3 months) <input type="checkbox"/> Ephemeral (Flows only in response to rainfall)
Direction of Flow:	<input type="checkbox"/> N <input type="checkbox"/> NE <input type="checkbox"/> E <input type="checkbox"/> SE <input type="checkbox"/> S <input type="checkbox"/> SW <input type="checkbox"/> W <input checked="" type="checkbox"/> NW <input type="checkbox"/> No Flow
OHWM Width (ft.):	75
Sinuosity:	<input type="checkbox"/> Braided <input checked="" type="checkbox"/> Meandering <input type="checkbox"/> Straight <input type="checkbox"/> N/A
Stream Width (ft.):	75
Water Surface (At Crossing Location):	75
Stream Depth (in.):	<input type="checkbox"/> 0 <input type="checkbox"/> 1-3 <input type="checkbox"/> 3-6 <input type="checkbox"/> 6-12 <input checked="" type="checkbox"/> 12-18 <input type="checkbox"/> 18-24 <input type="checkbox"/> 24-36 <input type="checkbox"/> 36-48 <input type="checkbox"/> 48-60 <input type="checkbox"/> 60+
OHWM Indicators:	BENT, MATTED OR MISSING VEGETATION SCOUR
Bank Height (ft.): (Looking Downstream)	Left: <input type="checkbox"/> 0-2 <input checked="" type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+ Right: <input checked="" type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+
Bank Slope (%): (Looking Downstream)	Left: VERTICAL Right: 5%

Qualitative Attributes

Water Appearance:
<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Sheen on Surface <input type="checkbox"/> Floating Algal Mats <input type="checkbox"/> Slightly Turbid <input type="checkbox"/> Very Turbid <input type="checkbox"/> Greenish Color <input type="checkbox"/> Obvious Surface Scum <input type="checkbox"/> No Flow <input type="checkbox"/> Other:
Stream Substrate %: 100% COBBLES
Aquatic Habitats:
<input type="checkbox"/> Sand Bar <input type="checkbox"/> Gravel Riffles <input type="checkbox"/> In-stream Emergent Plants % Cover: <input type="checkbox"/> Gravel Bar <input type="checkbox"/> Deep Pools <input type="checkbox"/> In-stream Submerged Plants % Cover: <input type="checkbox"/> Mud Bar <input checked="" type="checkbox"/> Bank Root Systems <input type="checkbox"/> Fringing Wetlands ¹ <input checked="" type="checkbox"/> Undercut Banks <input checked="" type="checkbox"/> Overhanging Trees/Shrubs <input type="checkbox"/> None
¹ Characteristics:
Aquatic Organisms Observed: INVERTEBRATES

AECOM
95 State Road
Sagamore Beach, MA 02662



Tributary Condition: ☒ Natural ☐ Artificial (Man-Made) ☐ Manipulated

Channel Condition: ☐ Channelization/Braiding ☐ Unnatural Straightening ☐ Downcutting
 ☐ Dikes/Berms ☐ Excessive Bank Erosion ☒ N/A

Habitat Characteristics, Aquatic, and Terrestrial Diversity Description:

Stream Quality: ☒ High ☐ Moderate ☐ Low

Comments:

Photos



Photo Name: DE1IS201_032913_3SW.jpg

Note: DE-1I-S201



Photo Name: DE1IS201_032913_2NW.jpg

Note: DE-1I-S201



Photo Name: DE1IS201_032913_1SE.jpg

Note: DE-1I-S201

Waterbody Data Form

Feature ID: DE-1L-S210B

Feature Name:

Associated Wetland ID:

☒ Centerline ☐ Re-Route ☐ Access Road ☐ Ancillary Facility ☐ Alternative Route ☐ Other

Centerline ID: Primary Route		Facility Description:	
Date: 2013/11/06	Client/Project Name: Constitution		Latitude/Longitude: 42.423257 , -74.96110
Team: 1A		State/County: NY - Delaware	Quad Name: West Davenport
Logbook No.: 5	Logbook Page No.: 18	Tract No.: NY-DE-142.001	

Waterbody Type: <input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Borrow Pit <input checked="" type="checkbox"/> Stream <input type="checkbox"/> Ag. Ditch <input type="checkbox"/> Other	
Stream Flow: <input type="checkbox"/> Fast <input type="checkbox"/> Moderate <input type="checkbox"/> Slow <input type="checkbox"/> Very Slow <input checked="" type="checkbox"/> None	
Flow Type: <input type="checkbox"/> Perennial (Flows year round) <input type="checkbox"/> Intermittent (Flows <3 months) <input type="checkbox"/> None <input type="checkbox"/> Seasonal (Continuous flow \geq 3 months) <input checked="" type="checkbox"/> Ephemeral (Flows only in response to rainfall)	
Direction of Flow: <input type="checkbox"/> N <input type="checkbox"/> NE <input type="checkbox"/> E <input type="checkbox"/> SE <input type="checkbox"/> S <input type="checkbox"/> SW <input type="checkbox"/> W <input type="checkbox"/> NW <input checked="" type="checkbox"/> No Flow	
OHWM Width (ft.): 3	
Sinuosity: <input type="checkbox"/> Braided <input checked="" type="checkbox"/> Meandering <input type="checkbox"/> Straight <input type="checkbox"/> N/A	
Stream Width (ft.): 3 Water Surface (At Crossing Location): 0	
Stream Depth (in.): <input checked="" type="checkbox"/> 0 <input type="checkbox"/> 1-3 <input type="checkbox"/> 3-6 <input type="checkbox"/> 6-12 <input type="checkbox"/> 12-18 <input type="checkbox"/> 18-24 <input type="checkbox"/> 24-36 <input type="checkbox"/> 36-48 <input type="checkbox"/> 48-60 <input type="checkbox"/> 60+	
OHWM Indicators: ABRUPT PLANT COMMUNITY CHANGE SCOUR SOIL CHARACTER CHANGES	
Bank Height (ft.): (Looking Downstream)	Left: <input checked="" type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+ Right: <input checked="" type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+
Bank Slope (%): (Looking Downstream)	Left: 60 Right: 60

Qualitative Attributes

Water Appearance:			
<input type="checkbox"/> Clear	<input type="checkbox"/> Turbid	<input type="checkbox"/> Sheen on Surface	<input type="checkbox"/> Floating Algal mats
<input type="checkbox"/> Slightly Turbid	<input type="checkbox"/> Very Turbid	<input type="checkbox"/> Greenish Color	<input type="checkbox"/> Obvious Surface Scum
<input checked="" type="checkbox"/> No Flow	<input type="checkbox"/> Other:		
Stream Substrate %:			
25% GRAVEL			
40% OTHER - Stone			
25% SANDS			
10% SILTS			

Aquatic Habitats:

- | | | | |
|---|--|---|----------|
| <input type="checkbox"/> Sand Bar | <input type="checkbox"/> Gravel Riffles | <input type="checkbox"/> In-stream Emergent Plants | % Cover: |
| <input type="checkbox"/> Gravel Bar | <input type="checkbox"/> Deep Pools | <input type="checkbox"/> In-stream Submerged Plants | % Cover: |
| <input type="checkbox"/> Mud Bar | <input type="checkbox"/> Bank Root Systems | <input type="checkbox"/> Fringing Wetlands ¹ | |
| <input type="checkbox"/> Undercut Banks | <input checked="" type="checkbox"/> Overhanging Trees/Shrubs | <input type="checkbox"/> None | |

¹Characteristics:

Aquatic Organisms Observed:

NONE

Tributary Condition: ☒ Natural ☐ Artificial (Man-Made) ☐ Manipulated

Channel Condition: ☐ Channelization/Braiding ☐ Unnatural Straightening ☐ Downcutting
 ☐ Dikes/Berms ☐ Excessive Bank Erosion ☒ N/A

Habitat Characteristics, Aquatic, and Terrestrial Diversity Description:

Stream Quality: ☐ High ☐ Moderate ☒ Low

Comments:

Photos



Photo Name: DE1LS210B_110613_3E.jpg

Note: DE-1L-S210B



Photo Name: DE1LS210B_110613_2SW.jpg

Note: DE-1L-S210B



Photo Name: DE1LS210B_110613_1NE.jpg

Note: DE-1L-S210B

Waterbody Data Form

Feature ID: DE-1L-S210C

Feature Name:

Associated Wetland ID: DE-1A-W248A

☒ Centerline ☐ Re-Route ☐ Access Road ☐ Ancillary Facility ☐ Alternative Route ☐ Other

Centerline ID: Primary Route		Facility Description:	
Date: 2013/11/06	Client/Project Name: Constitution		Latitude/Longitude: 42.423212 , -74.96095
Team: 1A		State/County: NY - Delaware	Quad Name: West Davenport
Logbook No.: 5	Logbook Page No.: 20	Tract No.: NY-DE-142.001	

Waterbody Type: <input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Borrow Pit <input checked="" type="checkbox"/> Stream <input type="checkbox"/> Ag. Ditch <input type="checkbox"/> Other	
Stream Flow: <input checked="" type="checkbox"/> Fast <input type="checkbox"/> Moderate <input type="checkbox"/> Slow <input type="checkbox"/> Very Slow <input type="checkbox"/> None	
Flow Type: <input type="checkbox"/> Perennial (Flows year round) <input checked="" type="checkbox"/> Intermittent (Flows <3 months) <input type="checkbox"/> None <input type="checkbox"/> Seasonal (Continuous flow \geq 3 months) <input type="checkbox"/> Ephemeral (Flows only in response to rainfall)	
Direction of Flow: <input checked="" type="checkbox"/> N <input type="checkbox"/> NE <input type="checkbox"/> E <input type="checkbox"/> SE <input type="checkbox"/> S <input type="checkbox"/> SW <input type="checkbox"/> W <input type="checkbox"/> NW <input type="checkbox"/> No Flow	
OHWM Width (ft.): 1	
Sinuosity: <input type="checkbox"/> Braided <input checked="" type="checkbox"/> Meandering <input type="checkbox"/> Straight <input type="checkbox"/> N/A	
Stream Width (ft.): 1	Water Surface (At Crossing Location): 0.8
Stream Depth (in.): <input type="checkbox"/> 0 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> 3-6 <input type="checkbox"/> 6-12 <input type="checkbox"/> 12-18 <input type="checkbox"/> 18-24 <input type="checkbox"/> 24-36 <input type="checkbox"/> 36-48 <input type="checkbox"/> 48-60 <input type="checkbox"/> 60+	
OHWM Indicators: ABRUPT PLANT COMMUNITY CHANGE SCOUR SOIL CHARACTER CHANGES	
Bank Height (ft.): (Looking Downstream)	Left: <input checked="" type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+ Right: <input checked="" type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+
Bank Slope (%): (Looking Downstream)	Left: 40 Right: 40

Qualitative Attributes

Water Appearance:			
<input type="checkbox"/> Clear	<input type="checkbox"/> Turbid	<input type="checkbox"/> Sheen on Surface	<input type="checkbox"/> Floating Algal mats
<input checked="" type="checkbox"/> Slightly Turbid	<input type="checkbox"/> Very Turbid	<input type="checkbox"/> Greenish Color	<input type="checkbox"/> Obvious Surface Scum
<input type="checkbox"/> No Flow	<input type="checkbox"/> Other:		
Stream Substrate %:			
60% GRAVEL			
30% SANDS			
5% SILTS			
5% VEGETATION			

Aquatic Habitats:

- | | | | |
|---|--|--|------------|
| <input type="checkbox"/> Sand Bar | <input type="checkbox"/> Gravel Riffles | <input type="checkbox"/> In-stream Emergent Plants | % Cover: 5 |
| <input type="checkbox"/> Gravel Bar | <input type="checkbox"/> Deep Pools | <input type="checkbox"/> In-stream Submerged Plants | % Cover: |
| <input type="checkbox"/> Mud Bar | <input type="checkbox"/> Bank Root Systems | <input checked="" type="checkbox"/> Fringing Wetlands ¹ | |
| <input type="checkbox"/> Undercut Banks | <input checked="" type="checkbox"/> Overhanging Trees/Shrubs | <input type="checkbox"/> None | |

¹Characteristics: PEM

Aquatic Organisms Observed:

NONE

Tributary Condition: ☒ Natural ☐ Artificial (Man-Made) ☐ Manipulated

Channel Condition: ☐ Channelization/Braiding ☐ Unnatural Straightening ☐ Downcutting
☐ Dikes/Berms ☐ Excessive Bank Erosion ☒ N/A

Habitat Characteristics, Aquatic, and Terrestrial Diversity Description:

Stream Quality: ☐ High ☒ Moderate ☐ Low

Comments:

Photos



Photo Name: DE1LS210C_110613_3W.jpg

Note: DE-1L-S210C



Photo Name: DE1LS210C_110613_2N.jpg

Note: DE-1L-S210C



Photo Name: DE1LS210C_1110613_1S.jpg

Note: DE-1L-S210C

SCHOHARIE COUNTY

Waterbody Data Form

Feature ID: SC-1A-S366

Feature Name:

Associated Wetland ID: SC-1A-W459, W292K

☐ Centerline ☐ Re-Route ☒ Access Road ☐ Ancillary Facility ☐ Alternative Route ☐ Other

Centerline ID: Primary Route		Facility Description:	
Date: 2013/12/30	Client/Project Name: Constitution		Latitude/Longitude: 42.704372 , -74.31106
Team: 1A	State/County: - NY		Quad Name: Schoharie
Logbook No.: 5	Logbook Page No.: 122	Tract No.: ALT-Q-NY-SC-022	

Waterbody Type:	<input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Borrow Pit <input type="checkbox"/> Stream <input type="checkbox"/> Ag. Ditch <input checked="" type="checkbox"/> Other	Excavated channel next to access r
Stream Flow:	<input type="checkbox"/> Fast <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Slow <input type="checkbox"/> Very Slow <input type="checkbox"/> None	
Flow Type:	<input type="checkbox"/> Perennial (Flows year round) <input type="checkbox"/> Intermittent (Flows <3 months) <input type="checkbox"/> None <input type="checkbox"/> Seasonal (Continuous flow ≥ 3 months) <input checked="" type="checkbox"/> Ephemeral (Flows only in response to rainfall)	
Direction of Flow:	<input type="checkbox"/> N <input type="checkbox"/> NE <input type="checkbox"/> E <input type="checkbox"/> SE <input checked="" type="checkbox"/> S <input type="checkbox"/> SW <input type="checkbox"/> W <input type="checkbox"/> NW <input type="checkbox"/> No Flow	
OHWM Width (ft.):	4	
Sinuosity:	<input type="checkbox"/> Braided <input type="checkbox"/> Meandering <input checked="" type="checkbox"/> Straight <input type="checkbox"/> N/A	
Stream Width (ft.):	5	Water Surface (At Crossing Location): 3
Stream Depth (in.):	<input type="checkbox"/> 0 <input type="checkbox"/> 1-3 <input checked="" type="checkbox"/> 3-6 <input type="checkbox"/> 6-12 <input type="checkbox"/> 12-18 <input type="checkbox"/> 18-24 <input type="checkbox"/> 24-36 <input type="checkbox"/> 36-48 <input type="checkbox"/> 48-60 <input type="checkbox"/> 60+	
OHWM Indicators:	CLEAR NATURAL LINE ON BANK SCOUR	
Bank Height (ft.): (Looking Downstream)	Left: <input type="checkbox"/> 0-2 <input checked="" type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+ Right: <input type="checkbox"/> 0-2 <input checked="" type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+	
Bank Slope (%): (Looking Downstream)	Left: 60- Right: 60-	

Qualitative Attributes

Water Appearance:	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Sheen on Surface <input type="checkbox"/> Floating Algal mats <input type="checkbox"/> Slightly Turbid <input type="checkbox"/> Very Turbid <input type="checkbox"/> Greenish Color <input type="checkbox"/> Obvious Surface Scum <input type="checkbox"/> No Flow <input type="checkbox"/> Other:		
Stream Substrate %:	100% SILTS		
Aquatic Habitats:	<input type="checkbox"/> Sand Bar <input type="checkbox"/> Gravel Riffles <input type="checkbox"/> In-stream Emergent Plants % Cover: <input type="checkbox"/> Gravel Bar <input type="checkbox"/> Deep Pools <input type="checkbox"/> In-stream Submerged Plants % Cover: <input type="checkbox"/> Mud Bar <input type="checkbox"/> Bank Root Systems <input type="checkbox"/> Fringing Wetlands ¹ <input type="checkbox"/> Undercut Banks <input type="checkbox"/> Overhanging Trees/Shrubs <input checked="" type="checkbox"/> None		
¹ Characteristics:			
Aquatic Organisms Observed:	NONE		

Tributary Condition: ☐ Natural ☒ Artificial (Man-Made) ☐ Manipulated

Channel Condition: ☐ Channelization/Braiding ☐ Unnatural Straightening ☐ Downcutting
 ☐ Dikes/Berms ☐ Excessive Bank Erosion ☒ N/A

Habitat Characteristics, Aquatic, and Terrestrial Diversity Description:

Stream Quality: ☐ High ☐ Moderate ☒ Low

Comments: Excavated ditch conveys drainage from SC-1A-W292K TO SC-1A-W459

Photos



Photo Name: SC1AS366_123013_1N.jpg

Note: SC-1A-S366



Photo Name: SC1AS366_123013_2S.jpg

Note: SC-1A-S366



Photo Name: SC1AS366_123013_3W.jpg

Note: SC-1A-S366

Waterbody Data Form

Feature ID: SC-1A-S370

Feature Name:

Associated Wetland ID: SC-1A-W460

☒ Centerline ☐ Re-Route ☐ Access Road ☐ Ancillary Facility ☐ Alternative Route ☐ Other

Centerline ID:		Facility Description:	
Date: 2014/05/08	Client/Project Name: Constitution		Latitude/Longitude: 42.537442 , -74.63928
Team: 1C	State/County: NY - Schoharie		Quad Name: Charlottesville
Logbook No.: 15	Logbook Page No.: 89	Tract No.: ALT-F-NY-SC-008.002	

Waterbody Type: <input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Borrow Pit <input checked="" type="checkbox"/> Stream <input type="checkbox"/> Ag. Ditch <input type="checkbox"/> Other	
Stream Flow: <input type="checkbox"/> Fast <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Slow <input type="checkbox"/> Very Slow <input type="checkbox"/> None	
Flow Type: <input checked="" type="checkbox"/> Perennial (Flows year round) <input type="checkbox"/> Intermittent (Flows <3 months) <input type="checkbox"/> None <input type="checkbox"/> Seasonal (Continuous flow ≥ 3 months) <input type="checkbox"/> Ephemeral (Flows only in response to rainfall)	
Direction of Flow: <input type="checkbox"/> N <input type="checkbox"/> NE <input type="checkbox"/> E <input type="checkbox"/> SE <input checked="" type="checkbox"/> S <input type="checkbox"/> SW <input type="checkbox"/> W <input type="checkbox"/> NW <input type="checkbox"/> No Flow	
OHWM Width (ft.): 10	
Sinuosity: <input type="checkbox"/> Braided <input checked="" type="checkbox"/> Meandering <input type="checkbox"/> Straight <input type="checkbox"/> N/A	
Stream Width (ft.): 12	Water Surface (At Crossing Location): 9
Stream Depth (in.): <input type="checkbox"/> 0 <input type="checkbox"/> 1-3 <input checked="" type="checkbox"/> 3-6 <input type="checkbox"/> 6-12 <input type="checkbox"/> 12-18 <input type="checkbox"/> 18-24 <input type="checkbox"/> 24-36 <input type="checkbox"/> 36-48 <input type="checkbox"/> 48-60 <input type="checkbox"/> 60+	
OHWM Indicators: CLEAR NATURAL LINE ON BANK LITTER AND DEBRIS SCOUR	
Bank Height (ft.): (Looking Downstream)	Left: <input checked="" type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+ Right: <input checked="" type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+
Bank Slope (%): (Looking Downstream)	Left: Ver Right: Ver

Qualitative Attributes

Water Appearance: <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Sheen on Surface <input type="checkbox"/> Floating Algal mats <input type="checkbox"/> Slightly Turbid <input type="checkbox"/> Very Turbid <input type="checkbox"/> Greenish Color <input type="checkbox"/> Obvious Surface Scum <input type="checkbox"/> No Flow <input type="checkbox"/> Other:			
Stream Substrate %: 40% GRAVEL 40% SANDS 20% SILTS			
Aquatic Habitats: <input type="checkbox"/> Sand Bar <input type="checkbox"/> Gravel Riffles <input type="checkbox"/> In-stream Emergent Plants % Cover: <input type="checkbox"/> Gravel Bar <input checked="" type="checkbox"/> Deep Pools <input type="checkbox"/> In-stream Submerged Plants % Cover: <input type="checkbox"/> Mud Bar <input checked="" type="checkbox"/> Bank Root Systems <input checked="" type="checkbox"/> Fringing Wetlands¹ <input checked="" type="checkbox"/> Undercut Banks <input type="checkbox"/> Overhanging Trees/Shrubs <input type="checkbox"/> None			
¹Characteristics: PFO			
Aquatic Organisms Observed: INVERTEBRATES			

AECOM

95 State Road

Sagamore Beach, MA 02662



Tributary Condition: ☒ Natural ☐ Artificial (Man-Made) ☐ Manipulated

Channel Condition: ☐ Channelization/Braiding ☐ Unnatural Straightening ☐ Downcutting
☐ Dikes/Berms ☐ Excessive Bank Erosion ☒ N/A

Habitat Characteristics, Aquatic, and Terrestrial Diversity Description:

Stream Quality: ☐ High ☒ Moderate ☐ Low

Comments:

Photos



Photo Name: SC1AS370_041614_2SW.jpg

Note: SC-1A-S370



Photo Name: SC1AS370_041614_1N.jpg

Note: SC-1A-S370



Photo Name: SC1AS370_041614_3W.jpg

Note: SC-1A-S370

Waterbody Data Form

Feature ID: SC-1A-S370C

Feature Name:

Associated Wetland ID: SC-1A-W460

☒ Centerline ☐ Re-Route ☐ Access Road ☐ Ancillary Facility ☐ Alternative Route ☐ Other

Centerline ID:		Facility Description:	
Date: 2014/05/08	Client/Project Name: Constitution		Latitude/Longitude: 42.537409 , -74.63954
Team: 1C	State/County: NY - Schoharie		Quad Name: Charlottesville
Logbook No.: 15	Logbook Page No.: 85	Tract No.: ALT-F-NY-SC-008.002	

Waterbody Type:	<input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Borrow Pit <input checked="" type="checkbox"/> Stream <input type="checkbox"/> Ag. Ditch <input type="checkbox"/> Other
Stream Flow:	<input type="checkbox"/> Fast <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Slow <input type="checkbox"/> Very Slow <input type="checkbox"/> None
Flow Type:	<input type="checkbox"/> Perennial (Flows year round) <input checked="" type="checkbox"/> Intermittent (Flows <3 months) <input type="checkbox"/> None <input type="checkbox"/> Seasonal (Continuous flow \geq 3 months) <input type="checkbox"/> Ephemeral (Flows only in response to rainfall)
Direction of Flow:	<input type="checkbox"/> N <input type="checkbox"/> NE <input type="checkbox"/> E <input type="checkbox"/> SE <input checked="" type="checkbox"/> S <input type="checkbox"/> SW <input type="checkbox"/> W <input type="checkbox"/> NW <input type="checkbox"/> No Flow
OHWM Width (ft.):	3
Sinuosity:	<input type="checkbox"/> Braided <input checked="" type="checkbox"/> Meandering <input type="checkbox"/> Straight <input type="checkbox"/> N/A
Stream Width (ft.):	4
Water Surface (At Crossing Location):	3
Stream Depth (in.):	<input type="checkbox"/> 0 <input type="checkbox"/> 1-3 <input checked="" type="checkbox"/> 3-6 <input type="checkbox"/> 6-12 <input type="checkbox"/> 12-18 <input type="checkbox"/> 18-24 <input type="checkbox"/> 24-36 <input type="checkbox"/> 36-48 <input type="checkbox"/> 48-60 <input type="checkbox"/> 60+
OHWM Indicators:	LITTER AND DEBRIS SCOUR
Bank Height (ft.): (Looking Downstream)	Left: <input checked="" type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+ Right: <input checked="" type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+
Bank Slope (%): (Looking Downstream)	Left: 3:1 Right: 3:1

Qualitative Attributes

Water Appearance:	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Sheen on Surface <input type="checkbox"/> Floating Algal mats <input type="checkbox"/> Slightly Turbid <input type="checkbox"/> Very Turbid <input type="checkbox"/> Greenish Color <input type="checkbox"/> Obvious Surface Scum <input type="checkbox"/> No Flow <input type="checkbox"/> Other:
Stream Substrate %:	85% GRAVEL 10% SANDS 5% SILTS
Aquatic Habitats:	<input type="checkbox"/> Sand Bar <input type="checkbox"/> Gravel Riffles <input type="checkbox"/> In-stream Emergent Plants % Cover: <input type="checkbox"/> Gravel Bar <input checked="" type="checkbox"/> Deep Pools <input type="checkbox"/> In-stream Submerged Plants % Cover: <input type="checkbox"/> Mud Bar <input type="checkbox"/> Bank Root Systems <input checked="" type="checkbox"/> Fringing Wetlands ¹ <input type="checkbox"/> Undercut Banks <input type="checkbox"/> Overhanging Trees/Shrubs <input type="checkbox"/> None
¹ Characteristics:	PFO
Aquatic Organisms Observed:	NONE

AECOM
95 State Road
Sagamore Beach, MA 02662



Tributary Condition: ☒ Natural ☐ Artificial (Man-Made) ☐ Manipulated

Channel Condition: ☐ Channelization/Braiding ☐ Unnatural Straightening ☐ Downcutting
 ☐ Dikes/Berms ☐ Excessive Bank Erosion ☒ N/A

Habitat Characteristics, Aquatic, and Terrestrial Diversity Description:

Stream Quality: ☐ High ☒ Moderate ☐ Low

Comments:

Photos



Photo Name: SC1AS370C_041614_3NE.jpg

Note: SC-1A-S370C



Photo Name: SC1AS370C_041614_2SE.jpg

Note: SC-1A-S370C



Photo Name: SC1AS370C_041614_1NW.jpg

Note: SC-1A-S370C

Waterbody Data Form

Feature ID: SC-1A-S370F

Feature Name:

Associated Wetland ID: SC-1A-W460

☒ Centerline ☐ Re-Route ☐ Access Road ☐ Ancillary Facility ☐ Alternative Route ☐ Other

Centerline ID:		Facility Description:	
Date: 2014/05/08	Client/Project Name: Constitution		Latitude/Longitude: 42.537389 , -74.63919
Team: 1C	State/County: NY - Schoharie		Quad Name: Charlottesville
Logbook No.: 15	Logbook Page No.: 88	Tract No.: ALT-F-NY-SC-008.002	

Waterbody Type:	<input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Borrow Pit <input checked="" type="checkbox"/> Stream <input type="checkbox"/> Ag. Ditch <input type="checkbox"/> Other
Stream Flow:	<input type="checkbox"/> Fast <input type="checkbox"/> Moderate <input type="checkbox"/> Slow <input checked="" type="checkbox"/> Very Slow <input type="checkbox"/> None
Flow Type:	<input type="checkbox"/> Perennial (Flows year round) <input checked="" type="checkbox"/> Intermittent (Flows <3 months) <input type="checkbox"/> None <input type="checkbox"/> Seasonal (Continuous flow ≥ 3 months) <input type="checkbox"/> Ephemeral (Flows only in response to rainfall)
Direction of Flow:	<input type="checkbox"/> N <input type="checkbox"/> NE <input type="checkbox"/> E <input type="checkbox"/> SE <input checked="" type="checkbox"/> S <input type="checkbox"/> SW <input type="checkbox"/> W <input type="checkbox"/> NW <input type="checkbox"/> No Flow
OHWM Width (ft.):	6
Sinuosity:	<input type="checkbox"/> Braided <input checked="" type="checkbox"/> Meandering <input type="checkbox"/> Straight <input type="checkbox"/> N/A
Stream Width (ft.):	7
Water Surface (At Crossing Location):	5
Stream Depth (in.):	<input type="checkbox"/> 0 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> 3-6 <input type="checkbox"/> 6-12 <input type="checkbox"/> 12-18 <input type="checkbox"/> 18-24 <input type="checkbox"/> 24-36 <input type="checkbox"/> 36-48 <input type="checkbox"/> 48-60 <input type="checkbox"/> 60+
OHWM Indicators: SOIL CHARACTER CHANGES	
Bank Height (ft.): (Looking Downstream)	Left: <input checked="" type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+ Right: <input checked="" type="checkbox"/> 0-2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+
Bank Slope (%): (Looking Downstream)	Left: 1:1 Right: 1:1

Qualitative Attributes

Water Appearance:			
<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Turbid	<input type="checkbox"/> Sheen on Surface	<input type="checkbox"/> Floating Algal Mats
<input type="checkbox"/> Slightly Turbid	<input type="checkbox"/> Very Turbid	<input type="checkbox"/> Greenish Color	<input type="checkbox"/> Obvious Surface Scum
<input type="checkbox"/> No Flow	<input type="checkbox"/> Other:		
Stream Substrate %:			
80% MUCK			
20% SILTS			
Aquatic Habitats:			
<input type="checkbox"/> Sand Bar	<input type="checkbox"/> Gravel Riffles	<input type="checkbox"/> In-stream Emergent Plants	% Cover:
<input type="checkbox"/> Gravel Bar	<input type="checkbox"/> Deep Pools	<input type="checkbox"/> In-stream Submerged Plants	% Cover:
<input type="checkbox"/> Mud Bar	<input type="checkbox"/> Bank Root Systems	<input checked="" type="checkbox"/> Fringing Wetlands ¹	
<input type="checkbox"/> Undercut Banks	<input checked="" type="checkbox"/> Overhanging Trees/Shrubs	<input type="checkbox"/> None	
¹ Characteristics: PFO			
Aquatic Organisms Observed:			
FROGS			

AECOM
95 State Road
Sagamore Beach, MA 02662



Tributary Condition: ☒ Natural ☐ Artificial (Man-Made) ☐ Manipulated

Channel Condition: ☐ Channelization/Braiding ☐ Unnatural Straightening ☐ Downcutting
 ☐ Dikes/Berms ☐ Excessive Bank Erosion ☒ N/A

Habitat Characteristics, Aquatic, and Terrestrial Diversity Description:

Stream Quality: ☐ High ☒ Moderate ☐ Low

Comments:

Photos



Photo Name: SC1AS370F_041614_3NE.jpg

Note: SC-1A-S370F



Photo Name: SC1AS370F_041614_2SE.jpg

Note: SC-1A-S370F



Photo Name: SC1AS370F_041614_1NW.jpg

Note: SC-1A-S370F

WETLAND DELINEATION REPORT

SUBMITTAL NO. 3

ATTACHMENT 4

CONSTITUTION PIPELINE



CONSTITUTION PIPELINE

WETLAND AND WATERBODY CROSSINGS SITE SPECIFIC DRAWINGS (REFER TO ATTACHMENT E)