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

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

Submitted by:

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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
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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

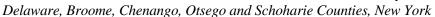
Wetland and waterbody boundaries were marked with survey flagging. Wetlands were marked with blue survey flagging, and waterbodies were marked with pink and black striped survey flagging. Each wetland and waterbody was given a unique alphanumeric designation to assist in field survey location and documentation. 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**

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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:

- 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:
- Soils must be classified as hydric, or they must possess characteristics that are associated with reducing soil conditions; and
- 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.

Hydri	c 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 indictors, 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.

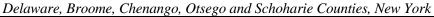
Table 3.2-3. Wetland Hydrology Indicators for the Northcentral and Northeast Region.

Primary Indicators (mi	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





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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

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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.

Wedlerd ID	Latitude	Township	USGS Quad ^b	Class ^c	Wetland Hydrolog	gy Indicator	Hydrophytic Vegetation	Hydric Soil	Wetland Description, Vegetative
Wetland ID	Longitude ^a	County	USGS Quad	Class	Primary	Secondary	Indicator	Indicator	Community Type
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	С3		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	Township	USGS Quad ^b	Class ^c	Wetland Hydrolog	gy Indicator	Hydrophytic Vegetation	Hydric Soil	Wetland Description, Vegetative
Wedanu ID	Longitude ^a	County	USGS Quau	Class	Primary	Secondary	Indicator	Indicator	Community Type
DE-1A-W468#	42.353818	Sidney	Franklin	PEM	A3, B9	B10	2, 3	F3	Mixed forb wet meadow with adjacennt
DE-1A-W408#	-75.20373	Delaware	гтанкин	PFO	A2, A3, B9	B10	2, 3	F3	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	Sidney	Franklin	PFO	A2, A3	B10	2, 3	F3	Red maple - northern hardwood palustrine
DE-1A-W4/8	-75.24240	Delaware	гтанкин	PEM	A3, C3	B10	2, 3	F3	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	Township	USGS Quad ^b	Class ^c	Wetland Hydrolog	gy Indicator	Hydrophytic Vegetation	Hydric Soil	Wetland Description, Vegetative
wedaliu 1D	Longitude ^a	County	USGS Quad	Class	Primary	Secondary	Indicator	Indicator	Community Type
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	В9	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	А3	B10	2, 3	F2	Mixed hardwood palustrine slope-seep.
DE-1C-W363	42.375772 -75.14748	Franklin Delaware	Franklin	PSS PEM	A2, A3, C3 A2, A3, C3	B10, D2	2, 3 2, 3	F3 F3	Mixed shrub-shrub swamp and mixed forb wet meadow.
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.



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	Township	USGS Quad ^b	Class ^c	Wetland Hydrolog	gy Indicator	Hydrophytic Vegetation	Hydric Soil	Wetland Description, Vegetative
	Longitude ^a	County			Primary	Secondary	Indicator	Indicator	Community Type
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	Franklin	Oneonta	PSS	A1, A2, A3, C3	B10	1, 2, 3	F3	Mixed shrub-scrub and wet meadow created
DE 111 W200	-75.07132	Delaware	Onconta	PEM	A1, A2, A3, C3	B10	1, 2, 3	F3	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	В9	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	Township	USGS Quad ^b	Class ^c	Wetland Hydrolog	gy Indicator	Hydrophytic Vegetation	Hydric Soil	Wetland Description, Vegetative
	Longitude ^a	County	,		Primary	Secondary	Indicator	Indicator	Community Type
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	Jefforson	Charlotteville	PFO	A3	B10	2, 3	F3	Hemlock - northern hardwood palustrine forest and adjacent wet meadow.
SC-1A-W400	-74.63937	Schoharie	Charlotteville	PEM	A2, A3, C3	B10	2, 3	F3	
SC-1A-W464	42.591322 -74.56547	Summit Schoharie	Summit	PSS	А3	B10	2, 3	F3	Meadowsweet thicket.
SC-1C-W172A	42.703371	Schoharie	Schoharie	PEM	C3		2, 3	F3	Dogwood dominant shrub-swamp with
5C-1C-W1/2A	-74.26672	Schoharie	Schonarie	PSS	С3		2, 3	F3	adjacent monotypic wet meadow.
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	Richmondville	Richmondville	PFO	A1, A2, A3, C1,	B10, D2	2, 3	A4, F3	Hardwood swamp depression.
32.2420	-74.53235	Schoharie		PEM	A1, A2, A3, C1,	B10, D2	2, 3	F3	Open field wet meadow.
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 associaeted 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	Е	Moderate quality tributary to BR-1C-S230.
BR-1S-S207C	UNT Cascade Creek	42.011192 -75.52571	Sanford Broome	Gulf Summit	Р	Moderate quality, natural tributary to BR-1S-S207.
BR-1S-S207D	UNT Cascade Creek	42.011114 -75.52587	Sanford Broome	Gulf Summit	Е	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	Е	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	Р	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	Е	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	Е	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	Е	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	72 043	Schoharie Schoharie	Schoharie	Е	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	Р	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.

Tuble 1.2 1. Water boules Defined to Within the Study Fred on Recessible Edite I directs from September 0, 2010 to built 0, 2011.										
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	Charlotteville	I	Moderate quality, natural tributary associated with wetland SC-1A-W460.				
SC-1A-S370F	UNT Clapper Hollow Creek	42.537389 -74.63919	Jefferson Delaware	Charlotteville	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



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

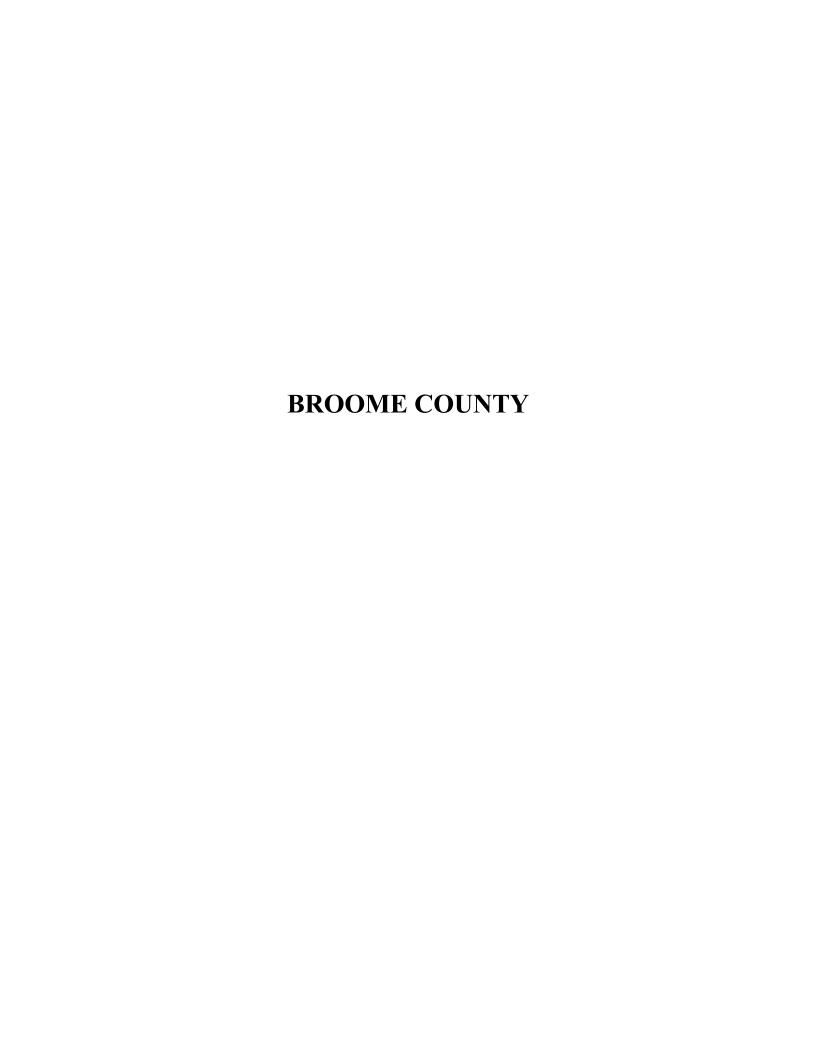
WETLAND DELINEATION REPORT SUBMITTAL NO. 3

ATTACHMENT 2

CONSTITUTION PIPELINE



WETLAND DATA SHEETS AND PHOTOGRAPHS



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 S	Summit	Section	on, Township, Range: Sanford
Landform: Drainageway		Lo	cal Relief:	✓ Concave ☐ Convex ☐ None Slope (%): 3
Subregion: Middle Atlantic	Latitu	ude: 42.0111	12	Longitude: -75.52618 Datum: NAD 1983
Soil Map Unit Name: Cattaraugu	s channery silt loam, 5 to	15 percent slo	pes	NWI Classification: Not Mapped
Are climatic/hydrologic conditions o	n the site typical for this ti	ime of year?	✓ Yes	☐ No (If no, explain in Remarks.)
Are Vegetation Soil or H	ydrology significantly	disturbed?	∕ No	Are "Normal Circumstances" present? ✓ Yes ☐ No
Are Vegetation Soil or Hy	drology naturally pro	oblematic?	N O	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS	S - Attach site map	showing sar	mpling po	pint locations, transects, important features, etc.
Hydrophytic Vegetation Present?	✓ Yes No			
Hydric Soil Present?	✓ Yes No	Is the Sar within a \		
Wetland Hydrology Present?	✓ Yes	within a	wetiand	, –
Remarks:				
Field Wetland Classification: PFC)			
HYDROLOGY				
Wetland Hydrology Indicator	rs			
Primary Indicators (minimum of one is r				Secondary Indicators (minimum of two required)
Surface Water (A1)		ed Leaves (B9)		Surface Soil Cracks (B6)
✓ High Water Table (A2)	☐ Aquatic Fau			✓ Drainage Patterns (B10)
Saturation (A3)	☐ Marl Deposi	sulfide Odor (C1)		Moss Trim Lines (B16)
Water Marks (B1)		nizospheres on Li	ivina Poots (Dry-Season Water Table (C2)
Sediment Deposits (B2)		f Reduced Iron (C		Grayhori Barrono (GG)
☐ Drift Deposits (B3) ☐ Algal Mat or Crust (B4)		Reduction in Till	-	Saturation Visible on Aerial Imagery (C9)
Iron Deposits (B5)		Surface (C7)	(Stunted or Stressed Plants (D1)
Inundation Visible on Aerial Imager		ain in Remarks)		Geomorphic Position (D2)
Sparsely Vegetated Concave Surfa	, (2.)	,		Shallow Aquitard (D3)
oparosi, regetates series series	(20)			Microtopographic Relief (D4)
				FAC-Neutral Test (D5)
				Other (Explain in Remarks)
Field Observations:				
	Yes No Depth (i			
	_	inches): 0		Was No.
Saturation Present:	Yes No Depth (i	inches): 0		Wetland Hydrology Present? ✓ Yes ☐ No
Describe Recorded Data (stream g	jauge, monitoring well, ae	erial photos, pre	evious insp	ections), if available:
Remarks:				

VEGETATION

REGETATION				
Tree Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
Acer rubrum		25	YES	FAC
Acer saccharum		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		1		1
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
Herb Stratum				
Plot Size: 5 feet				
Scientific Name		% Cover	Dominant	Indicator
Carex crinita		30	YES	OBL
Impatiens capensis		20	YES	FACW
Glyceria striata		10	NO	OBL
Persicaria sagittata		10	NO	OBL
Symphyotrichum novi-belgii		15	NO	FACW
Rumex obtusifolius		5	NO	FAC
Epilobium coloratum		5	NO	OBL
Carex scoparia		5	NO	FACW
	Total Cover:	100		
Vine Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			

that are Total Ni Species Percent are OBI	nance Test Worksh of Dominant Species OBL, FACW, or FAC: umber of Dominant Across All Strata: of Dominant Species th FACW, or FAC:	3 (A) 4 (B) 75 (A/			Total % OBL S FACW FAC S FACU UPL S	Species: pecies: Species: pecies: pecies:	55 40 30 20 0 145 nce Index =	x 1 = x 2 = x 3 = x 4 = x 5 = (A)	55 80 90 80 0 305 2.10	(B)
Hydrophytic Vegetation Indicators: ☐ 1 - Rapid Test for Hydrophytic Vegetation ☑ 2 - Dominance Test is > 50% ☑ 3 - Prevalance is ≤ 3.0 ☐ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) ☐ Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.					Hydro	phytic Vegeta	ation Pre	esent?	✓ Yes □	No
Remarks	5:									
	Description: (Descr				cument t	he indicator or	confirm	the abse	ence of indicate	ors.)
Profile Depth (in.)	Description: (Description: Matrix Color (Moist) %		n neede ox Featu %		Loc ²	the indicator or	confirm	the abse	ence of indicate	ors.)
Depth	Matrix	Red	ox Featu	ires	ı			the abse		ors.)
Depth (in.)	Matrix Color (Moist) %	Red	ox Featu	ires	ı	Texture		the abse		ors.)
Depth (in.) 0-3 3-14	Matrix Color (Moist) % 10YR 4/2 100	Red Color (Moist) 7.5YR 4/4	ox Featu % 3	Type ¹	Loc²	Texture FINE SANDY LOAM LOAM				
Depth (in.) 0-3 3-14	Matrix Color (Moist) % 10YR 4/2 100 10YR 4/1 97	Red Color (Moist) 7.5YR 4/4	ox Featu % 3	Type ¹	Loc²	Texture FINE SANDY LOAM LOAM	d Grains.	² Loc	Remarks	ining, M=Matrix.

Restrictive Layer Present (if present):	
Туре:	Hydric Soil Present? ✓ Yes ☐ No
Depth (inches):	nyunc son Fresent?
Remarks:	

Photos



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

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution	Milepost 26.37	City/County: Broo	ome Sampling Date: 2013/10/09
Applicant/Owner: Williams		State: NY	Sampling Point: BR-1C-W260-UPL1
Investigator(s): RR PL	USGS Quad: Gulf S	Summit S	Section, Township, Range: Sanford
Landform: Side slope		Local Re	elief: Concave 🗸 Convex C None Slope (%): 5
Subregion: Middle Atlantic	Latitu	ude: 42.010971	Longitude: -75.52597 Datum: NAD 1983
Soil Map Unit Name: Cattaraugu	s channery silt loam, 5 to	15 percent slopes	NWI Classification: Not Mapped
Are climatic/hydrologic conditions of	n the site typical for this t	ime of year? 🗸 Y	Yes
Are Vegetation Soil or H	ydrology significantly	disturbed? V No	Are "Normal Circumstances" present? ✓ Yes No
Are Vegetation Soil or Hy	ydrology naturally pro	oblematic? V No	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS	S - Attach site map	showing samplin	ng point locations, transects, important features, etc.
Hydrophytic Vegetation Present?	☐ Yes 🗸 No		
Hydric Soil Present?	☐ Yes 🗸 No	Is the Sample within a Wetla	
Wetland Hydrology Present?	☐ Yes 🗸 No	within a wette	and:
Remarks: Upland plot		1	
Field Wetland Classification:			
HYDROLOGY			
Wetland Hydrology Indicator	rs		
Primary Indicators (minimum of one is r	equired; check all that apply)		Secondary Indicators (minimum of two required)
Surface Water (A1)		ned Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2)	☐ Aquatic Fau		☐ Drainage Patterns (B10)
Saturation (A3)	☐ Marl Depos		Moss Trim Lines (B16)
Water Marks (B1)		Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2)		nizospheres on Living Ro f Reduced Iron (C4)	ordynan Burrowa (00)
Drift Deposits (B3)		Reduction in Tilled Soil	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Surface (C7)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)		ain in Remarks)	Geomorphic Position (D2)
Inundation Visible on Aerial Imager	, (2.)	ani ni Nemarkoj	Shallow Aquitard (D3)
Sparsely Vegetated Concave Surfa	ICE (BO)		Microtopographic Relief (D4)
			FAC-Neutral Test (D5)
			Other (Explain in Remarks)
Field Observations:			
Surface Water Present:	Yes V No Depth (inches):	
Water Table Present:		inches):	
Saturation Present:	Yes V No Depth (inches):	Wetland Hydrology Present? ☐ Yes ✓ No
Describe Recorded Data (stream g	jauge, monitoring well, ac	erial photos, previous	s inspections), if available:
Remarks:			

VEGETATION

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Acer saccharum	50	YES	FACU
Prunus serotina	10	NO	FACU
Fagus grandifolia	10	NO	FACU
Acer rubrum	5	NO	FAC
Total Cov	ver: 75		
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Acer saccharum	5	YES	FACU
Acer pensylvanicum	5	YES	FACU
Total Cov	ver: 10		
Shrub Stratum			
Plot Size: 15 feet	ı	i	1
Scientific Name	% Cover	Dominant	Indicator
Total Cov	/er:		
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
Dryopteris intermedia	20	YES	FAC
Rubus idaeus	3	NO	FACU
Dennstaedtia punctillobula	15	YES	UPL
		1	
Total Cov	ver: 38		
	ver: 38		
Total Cov	ver: 38 % Cover		

Total Cover:

Dominance Test Worksheet Number of Dominant Species	:	Prevalence Inde	ex Workshe		tiply by:	
that are OBL, FACW, or FAC:	1 (A)	OBL Species:	0	x 1 =	0	-
Total Number of Dominant Species Across All Strata:	5 (B)	FACW Species:	0	x 2 =	0	=
Percent of Dominant Species that	<u> </u>	FAC Species:	25	x 3 =	75	-
are OBL, FACW, or FAC:	20 (A/B)	FACU Species:	83	x 4 =	332	=
-		UPL Species:	15	x 5 =	75	_
		Column Totals:	123	(A)	482	_ (B)
		Pre	valence Index :	= B/A =	3.92	_
Hydrophytic Vegetation Indi	cators:					
1 - Rapid Test for Hydrophytic Veg	etation					
2 - Dominance Test is > 50%		Hydrophytic Veg	getation Pre	esent?	☐ Yes 🗸	No
☐ 3 - Prevalance is ≤ 3.0			-			
4 - Morphological Adaptations¹ (Pr data in Remarks or on a separate						
☐ Problematic Hydrophytic Vegetation	on¹ (Explain)					
¹ Indicators of hydric soil and wetland unless disturbed or problematic.	hydrology must be present					
Remarks:						

SOIL

Depth	Matrix		Redo	x Feat	ures			
(in.)	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²	Texture	Remarks
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 Indi	cators:		Indicators for Problematic Hydric Soils
Thick Dark Surfa Sandy Mucky Mir Sandy Gleyed Ma Sandy Redox (St Stripped Matrix (S	A2)	k Surface (F6) lark Surface (F7) laressions (F8) lain in Remarks)	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)
Postrictive La	or Present (if present):		
Type:	er Present (if present):		Hydric Soil Present? ☐ Yes ☑ No
Photos			
Photos	1 min		
Photo Name:	BR1CW260_100913_UPL1S.jp	g 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	on, Township, Range: Sanford			
Landform: depression in cornfie	·ld	Lo	cal Relief:	✓ Concave ☐ Convex ☐ None Slope (%): 0			
Subregion: Middle Atlantic	Latit	ude: 42.1378	84	Longitude: -75.45602 Datum: NAD 1988			
Soil Map Unit Name: Middlebu	ry silt loam			NWI Classification: Not Mapped			
Are climatic/hydrologic conditions	on the site typical for this t	ime 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 pr	oblematic?	/ No	(If needed, explain any answers in Remarks.)			
SUMMARY OF FINDING	3S - Attach site map	showing sar	mpling po	pint locations, transects, important features, etc.			
Hydrophytic Vegetation Present?							
Hydric Soil Present?	✓ Yes	Is the Sa within a	-				
Wetland Hydrology Present?	✓ Yes No	Willina	welland				
Remarks:							
Field Wetland Classification: Pl	ΞM						
HYDROLOGY							
Wetland Hydrology Indicat	ors						
Primary Indicators (minimum of one is	s required; check all that apply)			Secondary Indicators (minimum of two required)			
Surface Water (A1)	Water Stair	ned Leaves (B9)		Surface Soil Cracks (B6)			
High Water Table (A2)	Aquatic Fa			Drainage Patterns (B10)			
Saturation (A3)	☐ Marl Depos			Moss Trim Lines (B16)			
Water Marks (B1)		Sulfide Odor (C1)		Dry-Season Water Table (C2)			
Sediment Deposits (B2)		hizospheres on L		C3) Crayfish Burrows (C8)			
Drift Deposits (B3)		f Reduced Iron (0	-	Saturation Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)		Reduction in Till	ed Soils (C6	Stunted or Stressed Plants (D1)			
Iron Deposits (B5)		Surface (C7)		Geomorphic Position (D2)			
Inundation Visible on Aerial Imag	jery (B7) Uther (Exp	ain in Remarks)		Shallow Aquitard (D3)			
Sparsely Vegetated Concave Su	rface (B8)			Microtopographic Relief (D4)			
				FAC-Neutral Test (D5)			
				Other (Explain in Remarks)			
Field Observations:							
Surface Water Present:	Yes 🗸 No Depth (inches):					
Water Table Present:		inches):					
Saturation Present:		inches):		Wetland Hydrology Present? ✓ Yes ☐ No			
Describe Recorded Data (stream		•	evious insp				
	i gaage, monitoring well, at	znai priotos, pre	c vious irisp	estions, ii avaliabie.			
Remarks:							

VEGETATION

Tree Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
Cauling Ctratum	Total Cover.			
Sapling Stratum Plot Size: 15 feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
Shrub Stratum				
Plot Size: 15 feet			l .	l
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
Herb Stratum				
Plot Size: 5 feet				
Scientific Name		% Cover	Dominant	Indicator
Phalaris arundinacea		70	YES	FACW
Cyperus esculentus		30	YES	FACW
	Total Cover:	100		
Vine Stratum	Total Gover.	100		
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
Dominance Test Worksheet:	Prevalence Index	Worksheet:	Madelaha kan	
Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)	Total % Cover of:		Multiply by:	_
Total Number of Dominant	OBL Species:		1 = 0 $2 = 200$	
Species Across All Strata: 2 (B)	FAC Species:		3 = 0	<u> </u>
Percent of Dominant Species that are OBL, FACW, or FAC: 100 (A/B)	FACU Species:	0 x	4 = 0	_
<u>——</u>	UPL Species:	0 x	5 = 0	
	Column Totals:	100 (A	.)200	(B)
	Preva	lence Index = B/A	λ = 2.00	_
Hydrophytic Vegetation Indicators:				
1 - Rapid Test for Hydrophytic Vegetation				
✓ 2 - Dominance Test is > 50%	Hydrophytic Vege	tation Prese	nt? ✓ Yes	No
✓ 3 - Prevalance is ≤ 3.0	i iyaropiiyao vogo			_ 110
4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)				
Problematic Hydrophytic Vegetation¹ (Explain)				
¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.				
	-			-
Remarks:				
Remarks:				

Depth	Matrix		Rede	ox Featu	ures			
(in.)	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²	Texture	Remarks
-4	10YR 4/2	95	7.5YR 4/6	5	С	PL	SILT LOAM	
-18	5Y 5/1	80	7.5YR 4/6	20	С	PL	SILT LOAM	
Type:	C=Concentration	, D=Dep	oletion, RM=Reduc	ed Matri	ix, CS=Co	overed S	Sand or Coated Sand	d Grains. ² Location: PL=Pore Lining, M=Matrix
Hydri	c Soil Indicato	rs:						Indicators for Problematic Hydric Soils
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Loamy Mucky Mineral (F1) (LRR K, L) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Other (Explain in Remarks) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)							LRA 149B)	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)
Restr Type	ictive Layer F		t (if present):				Ну	dric Soil Present?

Photos



BR1CW261_102413_WET1SE.jpg Photo Name: 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	on, Township, Range: Sanford
Landform: Floodplain		Loca	al Relief:	☐ Concave ✓ Convex ☐ None Slope (%): 0
Subregion: Middle Atlantic	Latitu	ide: 42.139317	7	Longitude: -75.45597 Datum: NAD 1988
Soil Map Unit Name: Cattaraug	gus channery silt loam, 5 to	15 percent slop	es	NWI Classification: Not Mapped
Are climatic/hydrologic conditions	on the site typical for this ti	me 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 pro	oblematic?	No	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDING	3S - Attach site map	showing sam	pling po	oint locations, transects, important features, etc.
Hydrophytic Vegetation Present?	? Yes 🗸 No	le the Sam	anlad A	700
Hydric Soil Present?	☐ Yes 🗸 No	Is the Sam within a W		
Wetland Hydrology Present?	☐ Yes 🗸 No	Within a 11	rotiuitu	•
Remarks: Upland plot				
Field Wetland Classification:				
HYDROLOGY				
Wetland Hydrology Indicat	ors			
Primary Indicators (minimum of one i				Secondary Indicators (minimum of two required)
Surface Water (A1)		ed Leaves (B9)		Surface Soil Cracks (B6)
High Water Table (A2)	☐ Aquatic Fau ☐ Marl Deposi			Drainage Patterns (B10)
Saturation (A3)	_	ulfide Odor (C1)		Moss Trim Lines (B16)
Water Marks (B1)		izospheres on Livi	ina Roots ((Dry-Season Water Table (C2)
Sediment Deposits (B2)		Reduced Iron (C4		Ordynan Burrows (00)
☐ Drift Deposits (B3) ☐ Algal Mat or Crust (B4)		Reduction in Tilled	•	Saturation Visible on Aerial Imagery (C9)
Iron Deposits (B5)		Surface (C7)	` '	Stunted or Stressed Plants (D1)
Inundation Visible on Aerial Imag	nery (B7) Other (Expl	ain in Remarks)		Geomorphic Position (D2)
Sparsely Vegetated Concave Su		•		Shallow Aquitard (D3)
	()			Microtopographic Relief (D4)
				FAC-Neutral Test (D5)
				Other (Explain in Remarks)
Field Observations:				
Surface Water Present:	Yes 🗸 No Depth (i	nches):		
Water Table Present:	Yes 🗸 No Depth (i	nches):		
Saturation Present:	Yes V No Depth (i	nches):		Wetland Hydrology Present? ☐ Yes ✓ No
Describe Recorded Data (stream	n gauge, monitoring well, ae	rial photos, prev	vious insp	ections), if available:
Remarks:				

VEGETATION

Tree Stratum		1	l	ı	
Plot Size: 30 feet Scientific Name		% Cover	Dominant	Indicator	
	Total Cover:				
Sapling Stratum					
Plot Size: 15 feet					
Scientific Name		% Cover	Dominant	Indicator	
Shrub Stratum	Total Cover:				
Plot Size: 15 feet					
Scientific Name		% Cover	Dominant	Indicator	
	Total Cover:				
Herb Stratum		T		T	
Plot Size: 5 feet Scientific Name		% Cover	Dominant	Indicator	
Zea mays		50	YES	UPL	
Trifolium repens		2	NO	FACU	
	Total Cover:	52			
Vine Stratum					
Plot Size: 30 feet					
Scientific Name		% Cover	Dominant	Indicator	
	Total Cover:				
Dominance Test Worksheet:	Prevalence Index	Worksheet:			
Number of Dominant Species	Total % Cover of:		Multiply by:	<u></u>	
that are OBL, FACW, or FAC: 0_(A) Total Number of Dominant	OBL Species:	0 x 1 = 0			
Species Across All Strata: 1 (B)	FACW Species:		2 = 0	_	
Percent of Dominant Species that are OBL, FACW, or FAC: 0 (A/B)	FAC Species: FACU Species:		3 = <u>0</u> 4 = 8	_	
are OBL, FACW, or FAC:(A/B)	UPL Species:		5 = 250	_	
	Column Totals:	52 (A	.) 258	(B)	
	Preva	lence Index = B/A	A = 4.96	<u></u>	
Hydrophytic Vegetation Indicators:					
1 - Rapid Test for Hydrophytic Vegetation					
2 - Dominance Test is > 50%	Uvdranbytia Vasa	totion Droco	•42 □ Vee ₩	No	
□ 2 - Dominance Test is > 50%					
4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)					
Problematic Hydrophytic Vegetation¹ (Explain)					
Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.					
Remarks:					

SOII

OOIL								
Profile	Description:	(Descri	be to the depth	neede	d to doo	ument	the indicator o	or confirm the absence of indicators.)
Depth	epth Matrix		Redox Features					
(in.)	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²	Texture	Remarks
0-2	10YR 4/4	100				None	SILT LOAM	
2-18	10YR 4/6	100				None	SILT LOAM	
¹ Type:	C=Concentration	n, D=Dep	letion, RM=Reduc	ced Matr	ix, CS=Co	overed Sa	and or Coated Sa	and Grains. ² Location: PL=Pore Lining, M=Matrix.
Hydri	c Soil Indicato	rs:						Indicators for Problematic Hydric Soils
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S9) (LRR R, MLRA 149B) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Other (Explain in Remarks) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)							RA 149B) L)	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)
Туре	•	Present	t (if present):				ŀ	lydric Soil Present? ☐ Yes ☑ No
Remark								



BR1CW261_102413_UPL1S.jpg Photo Name: Note: BR-1C-W261-UPL1

Project/Site Constitution	Milepost 27.32850	City/County: Broom	ne Sampling Date: 2014/04/25
Applicant/Owner: Williams		State: NY	Sampling Point: BR-1C-W263-WET1
Investigator(s): PL, RR	USGS Quad: Gulf S	ummit Se	ction, Township, Range: Sanford
Landform: Drainageway		Local Relie	ef: 🗸 Concave 🗌 Convex 🔲 None Slope (%): 0
Subregion: Middle Atlantic	Latitu	de: 42.020800	Longitude: -75.52560 Datum: NAD 1983
Soil Map Unit Name: Wayland si	t loam		NWI Classification: Not mapped
Are climatic/hydrologic conditions o	n the site typical for this ti	me of year? 🗸 Yes	s
Are Vegetation Soil or H	ydrology significantly	disturbed? 🗸 No	Are "Normal Circumstances" present? ✓ Yes No
Are Vegetation Soil or Hy	rdrology	oblematic? V 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?	✓ Yes	le the Sampled	Aroa
Hydric Soil Present?	✓ Yes	Is the Sampled within a Wetlan	
Wetland Hydrology Present?	✓ Yes		
Remarks:			
Field Wetland Classification: PEM	1		
HYDROLOGY			
Wetland Hydrology Indicator	 'S		
Primary Indicators (minimum of one is re			Secondary Indicators (minimum of two required)
Surface Water (A1)		ed Leaves (B9)	Surface Soil Cracks (B6)
✓ High Water Table (A2)	Aquatic Fau	na (B13)	✓ Drainage Patterns (B10)
✓ Saturation (A3)	Marl Deposi	ts (B15)	Moss Trim Lines (B16)
Water Marks (B1)	Hydrogen S	ulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	✓ Oxidized Rh	izospheres on Living Roof	ts (C3) Crayfish Burrows (C8)
Drift Deposits (B3)		Reduced Iron (C4)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Reduction in Tilled Soils ((C6) Stunted or Stressed Plants (D1)
Iron Deposits (B5)		Surface (C7)	Geomorphic Position (D2)
Inundation Visible on Aerial Imager	y (B7) Uther (Expla	ain in Remarks)	Shallow Aquitard (D3)
Sparsely Vegetated Concave Surfa	ce (B8)		Microtopographic Relief (D4)
			FAC-Neutral Test (D5)
			Other (Explain in Remarks)
Field Observations:			
_	Yes ✓ No Depth (i	nches).	
		nches): 6	
	= ' '	nches): 0	Wetland Hydrology Present? ✓ Yes No
Describe Recorded Data (stream g		·	
	augo, momiomig non, ao	na. priotos, provioco in	
Remarks:			

Tree Stratum				
Plot Size: 30 feet Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
Sapling Stratum				
Plot Size: 15 feet				
Scientific Name		% Cover	Dominant	Indicator
Alnus incana		15	YES	FACW
	Total Cover:	15	1	
Shrub Stratum				
Plot Size: 15 feet				1
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
Herb Stratum				
Plot Size: 5 feet Scientific Name		% Cover	Dominant	Indicator
Phalaris arundinacea		85	YES	FACW
Onoclea sensibilis		3	NO	FACW
	Total Cover:	88		
Vine Stratum				
Vine Stratum Plot Size: 30 feet				
		% Cover	Dominant	Indicator

Number that are Total No Species Percent	nance Test Wo of Dominant Spec OBL, FACW, or F umber of Dominan Across All Strata: of Dominant Spec L, FACW, or FAC:	cies AC: t	2_(A 2_(B)		Total 9 OBL S FACW FAC S FACU UPL S	alence Index W 6 Cover of: pecies: Species: pecies: Species: pecies: n Totals: Prevalence	0 103 0 0	Mul x 1 = x 2 = x 3 = x 4 = x 5 = (A)	0 206 0 0 0 206 206 2.00	(B)
Hydrophytic Vegetation Indicators: ☐ 1 - Rapid Test for Hydrophytic Vegetation ☑ 2 - Dominance Test is > 50% ☑ 3 - Prevalance is ≤ 3.0 ☐ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) ☐ Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.					esent	Hydro	phytic Vegeta	tion Pres	ent?	✓ Yes □	No
Remarks	3:										
	<u>-</u>	Describ				cument	the indicator or	confirm th	e abse	ence of indicato	ors.)
Depth (in.)	Matrix Color (Moist)	%	Red Color (Moist)	dox Featu %	Type 1	Loc ²	Texture			Remarks	
0-14	2.5Y 3/2	97	` ,	3	71					neiliai n a	
			2.5Y 3/3	3	С	PL	FINE SANDY LOAM			Remarks	
14-22	2.5Y 4/2	80	2.5Y 3/3 10YR 3/4	20	С	PL M	FINE SANDY LOAM			Remarks	
	·		10YR 3/4	20	С	М		Grains.	² Loc	ration: PL=Pore Li	ning, M=Matrix.
¹ Type:	·	D=Depl	10YR 3/4	20	С	М	FINE SANDY LOAM				

Restrictive Layer Present (if present):	
Туре:	Hydric Soil Present? ✓ Yes ☐ No
Depth (inches):	nyunc son Fresent? ■ res □ No
Remarks:	,



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

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 S	Summit	Section	on, Township, Range: Sanford
Landform: Floodplain, terrace		Lo	cal Relief:	☐ Concave ☐ Convex ☑ None Slope (%): 0
Subregion: Middle Atlantic	Latitu	ude: 42.0205	51	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 t	ime 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	oblematic?	No	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDING	3S - Attach site map	showing sar	npling p	pint locations, transects, important features, etc.
Hydrophytic Vegetation Present?	? ✓ Yes ☐ No	Is the Sa	mpled A	roa
Hydric Soil Present?	✓ Yes No	within a	-	
Wetland Hydrology Present?	✓ Yes			
Remarks:				
Field Wetland Classification: PS	SS			
HYDROLOGY				
Wetland Hydrology Indicat	ors			
Primary Indicators (minimum of one i	s required; check all that apply)			Secondary Indicators (minimum of two required)
Surface Water (A1)		ned Leaves (B9)		Surface Soil Cracks (B6)
High Water Table (A2)	Aquatic Fau			✓ Drainage Patterns (B10)
Saturation (A3)	☐ Marl Depos	Sulfide Odor (C1)		Moss Trim Lines (B16)
Water Marks (B1)		hizospheres on Li	ivina Roots (Dry-Season Water Table (C2)
Sediment Deposits (B2)		f Reduced Iron (C	-	Grayiish Barrows (66)
☐ Drift Deposits (B3) ☐ Algal Mat or Crust (B4)		Reduction in Till	,	Saturation Visible on Aerial Imagery (C9)
Iron Deposits (B5)		Surface (C7)	,	Stunted or Stressed Plants (DT)
Inundation Visible on Aerial Imag	nery (B7) Other (Expl	ain in Remarks)		Geomorphic Position (D2)
Sparsely Vegetated Concave Su	• • • •			Shallow Aquitard (D3)
	,			Microtopographic Relief (D4)
				FAC-Neutral Test (D5)
				Other (Explain in Remarks)
Field Observations:				
	Yes 🔽 No Depth (
		inches): 10		
Saturation Present:	✓ Yes	inches): 0		Wetland Hydrology Present? ✓ Yes □ No
Describe Recorded Data (stream	n gauge, monitoring well, ae	erial photos, pre	evious insp	ections), if available:
Remarks:				

Tree Stratum					
Plot Size: Scientific Name	30 feet		% Cover	Dominant	Indicator
Malus pumila			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		1		
Scientific Name			% Cover	Dominant	Indicator
Alnus incana			8	NO	FACW
Salix sp			55	YES	FAC
Spiraea alba			8	NO	FACW
		Total Cover:	71	1	I .
Herb Stratum				1	1
Plot Size: Scientific Name	5 feet		% Cover	Dominant	Indicator
Onoclea sensib	lis		65	YES	FACW
Solidago sp			5	NO	FAC
		Total Cover:	70	l	
Vine Stratum					
Plot Size:	30 feet				
Scientific Name			% Cover	Dominant	Indicator
		Total Cover:	1		

Number of Do that are OBL, Total Number Species Acro Percent of Do are OBL, FAC Hydrophy 1 - Rapid 1 2 - Domina 2 - Prevala 4 - Morpho data in Re Problemat Indicators o	s All Strata: minant Species the W, or FAC: c Vegetation est for Hydrophytic nce Test is > 50%	2 (A 3 (B 3 (B 67 (A Indicators: Vegetation s¹ (Provide support rate sheet) etation¹ (Explain) etation hydrology m) /B) tting	esent	OBL S FACW FAC S FACU UPL S Colum	alence Index V 6 Cover of: pecies: Species: pecies: pecies: precies: pecies: pecies: prevale	0 81 60 0 10 151 nce Index =	x 1 = x 2 = x 3 = x 4 = x 5 = (A)	0 162 180 0 50 392 2.60	(B)
1	-	1			cument	the indicator or	confirm t	the abse	ence of indicat	ors.)
Depth (in.) Cold	Matrix r (Moist) %	Color (Moist)	lox Featu %	Type 1	Loc ²	Texture			Remarks	
	, ,	Color (Worst)	70	туре					Remarks	
8-22 2.5Y		10YR 3/4	20	С	None M	FINE SANDY LOAM				
¹ Type: C=Co	centration, D=De	oletion, RM=Redu	ced Matrix	x, CS=Co	overed Sa	and or Coated San	d Grains.	² Loc	cation: PL=Pore L	ining, M=Matrix.
Hydric Soi	Indicators:						Indicat	ors for	Problematic H	dric Soils
Histosol (A1)					LRR R, ML 1) (LRR K, c) F7)	RA 149B) L)	Coas 5 cm Dark Polyv Thin Iron- Pied Mesi Red Very	st: Prairie F Mucky Pe Surface (S value Belov Dark Surfa Manganes mont Flood c Spodic (Parent Ma Shallow D	0) (LRR K, L, MLRA Redox (A16) (LRR K, L, at or Peat (S3) (LRF G7) (LRR K, L, M) w Surface (S8) (LRR Ace (S9) (LRR K, L) e Masses (F12) (LRI dplain Soils (F19) (MTA6) (MLRA 144A, 1 terial (F21) ark Surface (TF12) in Remarks)	L, R) K, L, R) K, L) R K, L, R) LRA 149B)

Restrictive Layer Present (if present):				
Type:	Hydric Soil Present?	✓ Yes	□ No	
Depth (inches):	riyunc son Fresent:	<u> </u>	□ NO	
Remarks:				



BR1CW263_042514_WET2NE.jpg Photo Name: Note: BR-1C-W263-WET2

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	on, Township, Range: Sanford
Landform: Gravel road shoulder	r	Lo	cal Relief:	☐ Concave ✓ Convex ☐ None Slope (%):
Subregion: Middle Atlantic	Lati	tude: 42.02018	83	Longitude: -75.52578 Datum: NAD 1983
Soil Map Unit Name: Culvers of	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 significantl	y disturbed?	/ No	Are "Normal Circumstances" present? ✓ Yes ☐ No
Are Vegetation Soil or	Hydrology	roblematic?	∕ No	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDING	3S - Attach site map	showing sar	mpling po	oint locations, transects, important features, etc.
Hydrophytic Vegetation Present?	? ☐ Yes 🗸 No	le the Se	mplad A	***
Hydric Soil Present?	☐ Yes 🗸 No	Is the Sar within a \	-	
Wetland Hydrology Present?	☐ Yes 🗸 No	With the second	. ronana	•
Remarks: UPLAND ROAD SHOULDER				
Field Wetland Classification:				
HYDROLOGY				
Wetland Hydrology Indicate Primary Indicators (minimum of one is Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Image Sparsely Vegetated Concave Su	s required; check all that apply Water Sta Aquatic Fa Marl Depo Hydrogen Oxidized F Presence Recent Iro Thick Muc	ined Leaves (B9) auna (B13)	C4)	Saturation Visible on Aerial Imagery (C9)
Field Observations: Surface Water Present: Water Table Present: Saturation Present:	Yes ✓ No Depth	(inches): (inches):		Wetland Hydrology Present? ☐ Yes ✓ No
Describe Recorded Data (stream	ı gauge, monitoring well, a	erial photos, pre	evious insp	ections), if available:
Remarks:				

Tree Stratum		1	T	T
Plot Size: 5 feet		24.0		
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
Sapling Stratum				
Plot Size: 5 feet				
Scientific Name		% Cover	Dominant	Indicator
Shrub Stratum	Total Cover:			
Plot Size: 5 feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
Herb Stratum		1		T
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:	Prevalence Index Total % Cover of:	Worksheet:	Multiply by	
Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)			Multiply by:	_
Total Number of Dominant	OBL Species: FACW Species:		1 = 0 2 = 0	_
Species Across All Strata: 0 (B)	FAC Species:		3 = 0	_
Percent of Dominant Species that are OBL, FACW, or FAC: (A/B)	FACU Species:	0 x	4 = 0	
	UPL Species:	0 x	5 = 0	-
	Column Totals:	0_(A	.)0	_ (B)
	Preva	lence Index = B/A	\ =	
Hydrophytic Vegetation Indicators:				
1 - Rapid Test for Hydrophytic Vegetation				
2 - Dominance Test is > 50%	Hydrophytic Vege	etation Preser	nt? ☐ Yes 🗹	² No
☐ 3 - Prevalance is ≤ 3.0	,,			
4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)				
☐ Problematic Hydrophytic Vegetation¹ (Explain)				
¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.				
Remarks:				

SOIL

00. L									
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth	Matrix		Red	lox Featι	ox Features				
(in.)	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-20	2.5Y 3/3	100				None	LOAMY SAND	With gravel	
¹ Type:	C=Concentration	ı, D=Dep	letion, RM=Redu	ced Matri	x, CS=Co	overed Sa	nd or Coated Sand Grai	ns. ² Location: PL=Pore Lining, M=Matrix.	

Hydric Soil Indicators:		Indicators for Problematic Hydric Soils
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)	Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) Loamy Mucky Mineral (F1) (LRR K, L) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Other (Explain in Remarks)	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)
Indicators of hydrophytic vegetation and wetle	and hydrology must be present unless disturbed or problematic.	

Restrictive Layer Present (if present):			
Туре:	Hydria Sail Brasant?	☐ Yes	✓ No
Depth (inches):	Hydric Soil Present?	□ 1 62	▼ NO
Remarks:			
Fill material and gravel			

Photos



BR1CW263_042514_UPL1W.jpg Note: BR-1C-W263-UPL1 Photo Name:

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 S	Summit	Section	on, Township, Range: Sanford
Landform: DEPRESSION ON T	ERRACE	Loc	cal Relief:	✓ Concave ☐ Convex ☐ None Slope (%): 0
Subregion: Middle Atlantic	Latitu	ude: 42.05695	56	Longitude: -75.50678 Datum: NAD 1983
Soil Map Unit Name: Morris cha	annery silt loam, 8 to 15 pe	rcent slopes		NWI Classification: Not mapped
Are climatic/hydrologic conditions	on the site typical for this t	ime of year?	✓ Yes	☐ No (If no, explain in Remarks.)
Are Vegetation Soil or I	Hydrology significantly	disturbed?	No	Are "Normal Circumstances" present? ✓ Yes ✓ No
Are Vegetation Soil or F	Hydrology naturally pro	oblematic?	No	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDING	S - Attach site map	showing san	npling po	oint locations, transects, important features, etc.
Hydrophytic Vegetation Present?				
Hydric Soil Present?	✓ Yes	Is the Sar within a V		
Wetland Hydrology Present?	✓ Yes	Within a v	vetiand	i
Remarks: Use upland plot BR-1	C-W267-UPL1			
Field Wetland Classification: PF	0			
HYDROLOGY				
Wetland Hydrology Indicate	ors			
Primary Indicators (minimum of one is	required; check all that apply)			Secondary Indicators (minimum of two required)
Surface Water (A1)		ned Leaves (B9)		Surface Soil Cracks (B6)
✓ High Water Table (A2)	☐ Aquatic Fau			Drainage Patterns (B10)
Saturation (A3)	☐ Marl Depos			Moss Trim Lines (B16)
Water Marks (B1)		Sulfide Odor (C1)	vina Dooto //	Dry-Season Water Table (C2)
Sediment Deposits (B2)		hizospheres on Liv f Reduced Iron (C		Orayiish Barrows (00)
Drift Deposits (B3)		Reduction in Tille	-	Saturation Visible on Aerial Imagery (C9)
☐ Algal Mat or Crust (B4)☐ Iron Deposits (B5)		Surface (C7)	34 COIIO (CO)	Stunted or Stressed Plants (D1)
		ain in Remarks)		Geomorphic Position (D2)
☐ Inundation Visible on Aerial Image ☐ Sparsely Vegetated Concave Sur	o., (2.)	an in realitation		Shallow Aquitard (D3)
Sparsely vegetated concave our	lace (DO)			Microtopographic Relief (D4)
				FAC-Neutral Test (D5)
				Other (Explain in Remarks)
Field Observations:				
	` `	inches): 1		
<u> </u>		inches): 0		
Saturation Present:	Yes No Depth (inches): 0		Wetland Hydrology Present? ✓ Yes No
Describe Recorded Data (stream	gauge, monitoring well, as	erial photos, pre	evious insp	ections), if available:
Remarks:				

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

Number that are Total No Species Percent	nance Test Work of Dominant Species OBL, FACW, or FAC umber of Dominant Across All Strata: of Dominant Species _, FACW, or FAC:	3 (A 4 (B	3)		Total % OBL S FACW FAC S FACU UPL S	Species: pecies: Species: pecies: n Totals:	0 5 25 81 0 111	x 1 = x 2 = x 3 = x 4 = x 5 = (A)	1tiply by: 0 10 75 324 0 409	(B)
1 - R 2 - D 3 - P 4 - N data Prob	apid Test for Hydroph ominance Test is > 50 revalance is ≤ 3.0 lorphological Adaptation in Remarks or on a se lematic Hydrophytic V tors of hydric soil and disturbed or problema	vic Vegetation vins¹ (Provide suppo parate sheet) egetation¹ (Explain) wetland hydrology n		esent	Hydro	phytic Vege	etation Pre	esent?	⊻ Yes 〔	□No
Remarks	5:									
SOIL	Deceriation (Dec	priha ta tha dant	h noodod	l to doe	numant t	the indicator (or confirm	the above	ones of indica	tora
Profile	Description: (Des	_			cument 1	the indicator o	or confirm	the abso	ence of indica	itors.)
	Description: (Des Matrix Color (Moist) %	_	dox Featur		Loc ²	the indicator o		the abso	ence of indica Remarks	itors.)
Profile Depth	Matrix	Re-	dox Featur	res	I			the abse	Remarks	itors.)
Profile Depth (in.)	Matrix Color (Moist) %	Color (Moist)	dox Featur	res	I	Texture	ORC		Remarks	ntors.)
Profile Depth (in.) 0-4 4-12	Matrix Color (Moist) % 2.5Y2.5/1 10	Color (Moist) GLEY14/10GY	dox Featur % 5	res Type 1 D	Loc²	Texture ORGANIC FINE SANDY LOA	ORG	GANIC LOA	Remarks M	ators.) Lining, M=Matrix.
Profile Depth (in.) 0-4 4-12 Type: Hydrid	Matrix Color (Moist) % 2.5Y2.5/1 10 2.5Y5/1 95	Color (Moist) GLEY14/10GY Depletion, RM=Redu	% 5 uced Matrix	Type 1 D C, CS=Cc	M overed Sa	Texture ORGANIC FINE SANDY LOA	ORC	GANIC LOA	Remarks M	Lining, M=Matrix.

Restrictive Layer Present (if present):		
Type: ROCK	Undria Cail Brasant2	
Depth (inches): 12	Hydric Soil Present? ✓ Yes	□ No
Remarks: AUGER REFUSAL		



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

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, T	Fownship, Range: Sanford
Landform: HILLSIDE Local Relief:	Concave ☐ Convex ✔ None Slope (%): 10
Subregion: Middle Atlantic Latitude: 42.056651 Lor	ngitude: -75.50665 Datum: NAD 1983
Soil Map Unit Name: Lordstown and Oquaga channery silt loams, 25 to 35 percent slope	nes 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 no	needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sampling point	locations, transects, important features, etc.
Hydrophytic Vegetation Present? ☐ Yes ✓ No Is the Sampled Area	
Hydric Soil Present?	☐ Yes ☑ No
Wetland Hydrology Present? ☐ Yes ✓ No	
Remarks: UPLAND FOREST; also upland plot for BR-1C-W268-WET1	
Field Wetland Classification:	
HYDROLOGY	
Wetland Hydrology Indicators	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
☐ Surface Water (A1) ☐ Water Stained Leaves (B9) ☐ Aquatic Fauna (B13)	Surface Soil Cracks (B6)
	Drainage Patterns (B10)
	✓ Moss Trim Lines (B16)✓ Dry-Season Water Table (C2)
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3)	Crayfish Burrows (C8)
☐ Drift Deposits (B3) ☐ Presence of Reduced Iron (C4)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6)	Stunted or Stressed Plants (D1)
☐ Iron Deposits (B5) ☐ Thick Muck Surface (C7)	Geomorphic Position (D2)
☐ Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks)	Shallow Aquitard (D3)
Sparsely Vegetated Concave Surface (B8)	Microtopographic Relief (D4)
	FAC-Neutral Test (D5)
	Other (Explain in Remarks)
	,
Field Observations:	
Surface Water Present: Yes No Depth (inches):	
Water Table Present: Yes V No Depth (inches):	Wetland Hydrology Present? ☐ Yes ✓ No
Saturation Present:	,,
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection	ons), if available:
Remarks:	

Tree Stratum				
Plot Size: 30 feet Scientific Name		% Cover	Dominant	Indicator
Tsuga canadensis		70	YES	FACU
Betula lenta		20	YES	FACU
Acer rubrum		10	NO	FAC
	Total Cover:	100		
Sapling Stratum				
Plot Size: 15 feet Scientific Name		% Cover	Dominant	Indicator
Tsuga canadensis		5	YES	FACU
	Total Cover:	5	I.	1
Shrub Stratum				
Plot Size: 15 feet Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
Herb Stratum				
Plot Size: 5 feet Scientific Name		% Cover	Dominant	Indicator
Dryopteris intermedia		5	YES	FAC
	Total Cover:	5	•	1
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:		Prevalence Inde	ex Workshe		tiply by:	-
Total Number of Dominant	1_(A)	OBL Species:	0	x 1 =	0	_
Species Across All Strata:	4 (B)	FACW Species:	0	x 2 =	0	_
Percent of Dominant Species that		FAC Species:	15	x 3 =	45	_
are OBL, FACW, or FAC:	25 (A/B)	FACU Species:	95	x 4 =	380	_
		UPL Species:	0	x 5 =	0	_
		Column Totals:	110	(A)	425	(B)
		Pre	valence Index =	= B/A =	3.86	=
Hydrophytic Vegetation Indi 1 - Rapid Test for Hydrophytic Veg 2 - Dominance Test is > 50% 3 - Prevalance is ≤ 3.0 4 - Morphological Adaptations¹ (Prodata in Remarks or on a separate Problematic Hydrophytic Vegetati	rovide supporting sheet) on¹ (Explain)	Hydrophytic Ve	getation Pre	esent?	□ Yes 🗹	No
Remarks:						

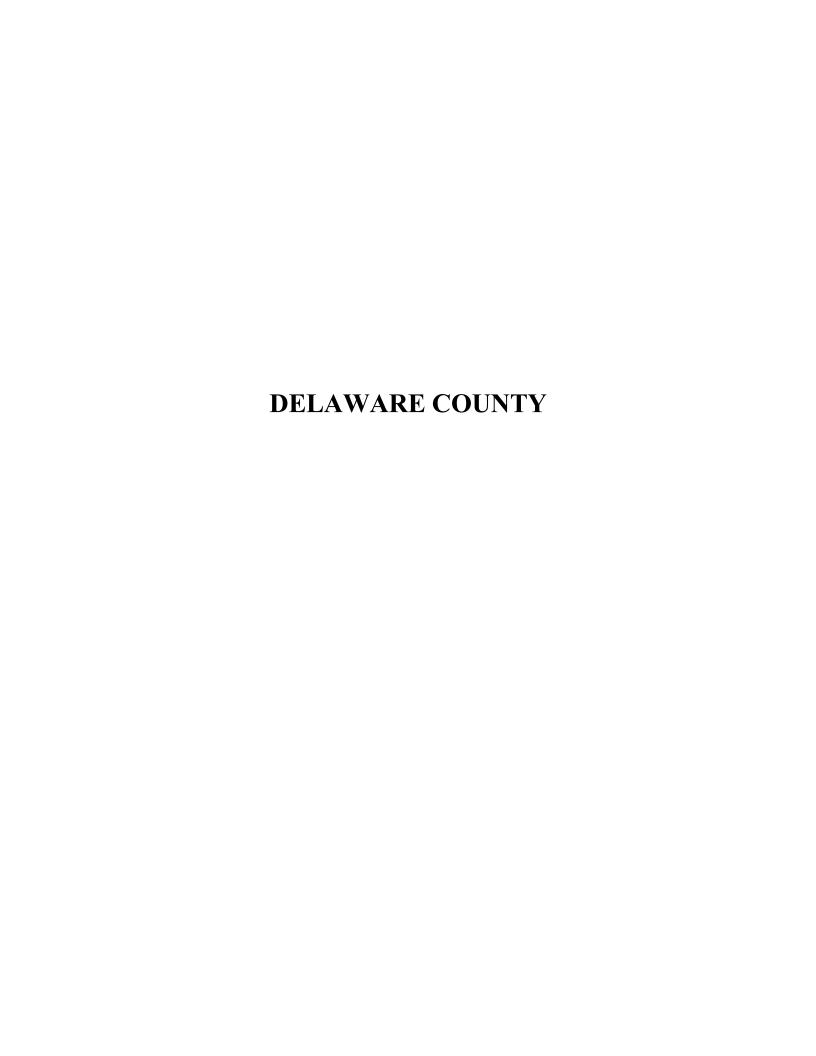
SOIL

Depth	Matrix		Redo	x Feat	ures			
(in.)	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²	Texture	Remarks
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:		Indicators for Problematic Hydric Soils
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, ML	☐ Depleted Dark Surface (F7) ☐ Redox Depressions (F8) ☐ Other (Explain in Remarks)	LRA 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)
Restrictive Layer Prese Type: Depth (inches):	nt (if present):	Hydric Soil Present? ☐ Yes ☑ No
Photos		
Photo Name: BR1CW2	67, 053014, UPL1E ing	Note: BR-1C-W267-UPI 1



Project/Site Constitution N	/lilepost 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: Oneon	ıta	Section	on, Township, Range: Franklin
Landform: Drainageway		Lo	cal Relief:	✓ Concave ☐ Convex ☐ None Slope (%): 2
Subregion: Middle Atlantic	Latitu	de: 42.41666	68	Longitude: -75.04953 Datum: NAD1983
Soil Map Unit Name: Onteora and	Ontusia soils, 2 to 10 pe	ercent slopes,	very stony	NWI Classification: Not Mapped
Are climatic/hydrologic conditions on	the site typical for this tir	me of year?	✓ Yes	☐ No (If no, explain in Remarks.)
Are Vegetation Soil or Hy	drology significantly	disturbed?	∕ No	Are "Normal Circumstances" present? ✓ Yes ✓ No
Are Vegetation Soil or Hyd	drology naturally pro	blematic?	N o	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS	- Attach site map	showing sar	mpling po	oint locations, transects, important features, etc.
Hydrophytic Vegetation Present?	✓ Yes	Is the Sa	mpled A	702
Hydric Soil Present?	✓ Yes	within a		
Wetland Hydrology Present?	✓ Yes			
Remarks:				
Field Wetland Classification: PFO				
HYDROLOGY				
Wetland Hydrology Indicators	.			
Primary Indicators (minimum of one is re-				Secondary Indicators (minimum of two required)
Surface Water (A1)	✓ Water Staine			Surface Soil Cracks (B6)
High Water Table (A2)	☐ Aquatic Fau			✓ Drainage Patterns (B10)
Saturation (A3)	_	ulfide Odor (C1)		Moss Trim Lines (B16)
Water Marks (B1) Sediment Deposits (B2)		izospheres on Li	ving Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Drift Deposits (B3)		Reduced Iron (C		Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Recent Iron	Reduction in Till	ed Soils (C6)	
☐ Iron Deposits (B5)	Thick Muck	Surface (C7)		Geomorphic Position (D2)
Inundation Visible on Aerial Imagery	(B7) Other (Expla	in in Remarks)		Shallow Aquitard (D3)
Sparsely Vegetated Concave Surface	e (B8)			Microtopographic Relief (D4)
				FAC-Neutral Test (D5)
				Other (Explain in Remarks)
Field Observations:	_			
	res 🔽 No Depth (ii			
	res 🔽 No Depth (ii			
Saturation Present:	res ☐ No Depth (in	nches): 0		Wetland Hydrology Present? ✓ Yes □ No
Describe Recorded Data (stream ga	auge, monitoring well, aer	rial photos, pre	evious insp	ections), if available:
Remarks:				

FACU FACU FACU FACU FACU FACU FACU
FACUFACU
FACU FAC
FAC ndicator
ndicator FACU
FACU
FACU
FACU
FACU
FAC
ndicator
FAC
ndicator
FACW
FACW
FACW
FACW
·
ndicator

Numbe that are Total N Species Percen	nance Test Wo r of Dominant Spec e OBL, FACW, or F umber of Dominan s Across All Strata: t of Dominant Spec L, FACW, or FAC:	cies AC: t	5_(A)		Total 9 OBL S FACW FAC S FACU UPL S	Alence Index W 6 Cover of: pecies: pecies: pecies: pecies: pecies: pecies: pecies:		tiply by: 0 156 270 172 0 598 (B) 2.83
Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is > 50% 3 - Prevalance is ≤ 3.0 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.						Hydro	ophytic Vegeta	-	✓ Yes □ No
SOIL Profile		Describ	pe to the dept	h neede	d to doo	cument	the indicator or	confirm the abse	nce of indicators.)
Depth	Matrix			lox Featu					,
(in.)	Color (Moist)	%							
		,,	Color (Moist)	%	Type ¹	Loc ²	Texture		Remarks
0-6	10YR 3/1	100	Color (Moist)	%	Type 1	None	Texture SILT LOAM		Remarks
6-15	10YR 3/1 5YR 4/2		Color (Moist) 5YR 4/1	5	Type 1			Organic staining	
6-15	5YR 4/2	100 95	5YR 4/1	5	С	None M	SILT LOAM		
6-15	5YR 4/2	100 95 D=Depl	5YR 4/1	5	С	None M	SILT LOAM	I Grains. ² Loc	g in subsoil

Restrictive Layer Present (if present):	
Туре:	Hydric Soil Present? ✓ Yes ☐ No
Depth (inches):	Hydric Soil Present? ✓ Yes ☐ No
Remarks:	



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

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 L	ocal Relief: ☐ Concave ☑ Convex ☐ None Slope (%): 4
Subregion: Middle Atlantic Latitude: 42.416	831 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
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 sa	ampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?	
Hydric Soil Drecent?	ampled Area Wetland? □ Yes ☑ No
Wetland Hydrology Present?	wetianu:
Remarks: Upland plot	
Field Walland Olassifications	
Field Wetland Classification:	
HYDROLOGY	
Wetland Hydrology Indicators	
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Water Stained Leaves (B9	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6)
Surface Water (A1) Water Stained Leaves (B9 High Water Table (A2) Aquatic Fauna (B13)	Drainage Patterns (B10)
Saturation (A3) Marl Deposits (B15)	Moss Trim Lines (B16)
☐ Water Marks (B1) ☐ Hydrogen Sulfide Odor (C1	
Sediment Deposits (B2) Oxidized Rhizospheres on	
☐ Drift Deposits (B3) ☐ Presence of Reduced Iron	
Algal Mat or Crust (B4) Recent Iron Reduction in T	
☐ Iron Deposits (B5) ☐ Thick Muck Surface (C7)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks	
Sparsely Vegetated Concave Surface (B8)	Microtopographic Relief (D4)
	FAC-Neutral Test (D5)
	Other (Explain in Remarks)
Field Observations: Surface Water Present:	
Water Table Present:	Wetland Hydrology Present? ☐ Yes ✓ No
	, , , , , , , , , , , , , , , , , , , ,
Describe Recorded Data (stream gauge, monitoring well, aerial photos, p	revious inspections), if available:
Remarks:	

720217(110)(
Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Acer rubrum	10	NO	FAC
Pinus strobus	30	YES	FACU
Quercus rubra	20	YES	FACU
Betula alleghaniensis	15	NO	FAC
Ostrya virginiana	8	NO	FACU
Total Cover:	83		
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Betula alleghaniensis	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
Maianthemum canadense	10	NO	FACU
Dennstaedtia punctilobula	45	YES	UPL
Thelypteris noveboracensis	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	:	Prevalence Inde Total % Cover of:	x Workshe		iply by:		
that are OBL, FACW, or FAC:	2 (A)	OBL Species:	0	x 1 =	0	-	
Total Number of Dominant Species Across All Strata:	5 (B)	FACW Species:	0	x 2 =	0		
Percent of Dominant Species that	<u> </u>	FAC Species:	48	x 3 =	144	=	
are OBL, FACW, or FAC:	40 (A/B)	FACU Species:	68	x 4 =	272	=	
· · · · ·		UPL Species:	45	x 5 =	225	=	
		Column Totals:	161	(A)	641	(B)	
		Prev	alence Index =	: B/A =	3.98	_	
Hydrophytic Vegetation Indi	cators:						
1 - Rapid Test for Hydrophytic Veg	etation						
2 - Dominance Test is > 50%		Hydrophytic Vegetation Present? ☐ Yes ☑ No					
☐ 3 - Prevalance is ≤ 3.0							
4 - Morphological Adaptations¹ (Pr data in Remarks or on a separate							
Problematic Hydrophytic Vegetation	on¹ (Explain)						
¹ Indicators of hydric soil and wetland unless disturbed or problematic.	hydrology must be present						
Remarks:							

SOIL

Depth	Matrix		Redo	Redox Features				
(in.)	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²	Texture	Remarks
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:		Indicators for Problematic Hydric Soils
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, M	Depleted Dark Surface (F7) Redox Depressions (F8) Other (Explain in Remarks)	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)
Type: Depth (inches):	ent (if present):	Hydric Soil Present? ☐ Yes ☑ No
Remarks:		
<u> </u>		
Photos	· LESSEY SEAL OF LINEAR SERVICE	C HD DD ALL A
Photo Name: DF1AW	125A 060313 UPLINE ing Note	DE-1A-W125A-UPI 1

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: Oneor	nta	Section	on, Township, Range: Franklin
Landform: Isolated depression		Loc	cal Relief:	✓ Concave ☐ Convex ☐ None Slope (%): 1
Subregion: Middle Atlantic	Latitu	de: 42.41698	30	Longitude: -75.04896 Datum: NAD1983
Soil Map Unit Name: Willowern	noc channery silt loam, 3 to	8 percent slope	es	NWI Classification: Not Mapped
Are climatic/hydrologic conditions	on the site typical for this ti	me 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 I	Hydrology naturally pro	blematic?	N O	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDING	S - Attach site map	showing sar	npling po	oint locations, transects, important features, etc.
Hydrophytic Vegetation Present?	Yes No	Is the Sar	mnled A	rea
Hydric Soil Present?	✓ Yes	within a \		
Wetland Hydrology Present?	✓ Yes			
Remarks: Use Upland plot DE-	1A-W125A-UPL1			
Field Wetland Classification: PF	:O			
HYDROLOGY				
Wetland Hydrology Indicate	ors			
Primary Indicators (minimum of one is				Secondary Indicators (minimum of two required)
Surface Water (A1)	✓ Water Stain			Surface Soil Cracks (B6)
High Water Table (A2)	Aquatic Fau Marl Deposi			✓ Drainage Patterns (B10)
Saturation (A3)	_	ulfide Odor (C1)		Moss Trim Lines (B16)
Water Marks (B1) Sediment Deposits (B2)		izospheres on Li	ving Roots (Dry-Season Water Table (C2) Crayfish Burrows (C8)
Drift Deposits (B3)	Presence of	Reduced Iron (C	(4)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Recent Iron	Reduction in Tille	ed Soils (C6	
☐ Iron Deposits (B5)	Thick Muck	Surface (C7)		Geomorphic Position (D2)
☐ Inundation Visible on Aerial Imag	ery (B7) Other (Expla	ain in Remarks)		Shallow Aquitard (D3)
Sparsely Vegetated Concave Sui	rface (B8)			Microtopographic Relief (D4)
				FAC-Neutral Test (D5)
				Other (Explain in Remarks)
Field Observations:	_			
	Yes 🔽 No Depth (i			
	」Yes ✓ No Depth (i			
Saturation Present:	Yes No Depth (i	nches): 0		Wetland Hydrology Present? ✓ Yes No
Describe Recorded Data (stream	gauge, monitoring well, ae	rial photos, pre	evious insp	ections), if available:
Remarks:				
organic staining; reduced	I matrix-tree species r	ot in wetlai	nd	

- 0				
Tree Stratum			T	
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
Tsuga canadensis		10	YES	FACU
Fagus grandifolia		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
Rhamnus frangula		15	YES	FAC
	Total Cover:	15	1	
Herb Stratum				
Plot Size: 5 feet				
Scientific Name		% Cover	Dominant	Indicator
Impatiens capensis		5	NO	FACW
Osmunda cinnamomea		30	YES	FACW
Thelypteris novemboracensis		10	NO	FAC
Solidago sp		15	NO	FAC
Carex stricta		25	YES	OBL
	Total Cover:	85		
Vine Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			

that are Total No Species Percent	nance Test World of Dominant Specie OBL, FACW, or FACumber of Dominant Across All Strata: of Dominant Specie _, FACW, or FAC:	es C:	et:3_(A)5_(B)60_(A))		Total % OBL S FACW FAC S FACU UPL S	Species: pecies: Species: pecies: n Totals:	25 35 40 50 0 150 nce Index =	x 1 = x 2 = x 3 = x 4 = x 5 = (A)	12	25 70 20 00 0 15 (B)
Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is > 50% 3 - Prevalance is ≤ 3.0 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.						Hydro	ophytic Vegeta	ation Pre	sent?	✓ Yes	□No
Remarks: SOIL											
	Description: (De	. a a wilb	o to the doubl	- 22242	d to do.		uho indicator are	o o néismo é	the abo	ones of indi	
Profile	Description: (De	escrib	_			cument t	the indicator or	confirm t	the abso	ence of indi	cators.)
	Matrix		_	n neede lox Featu %		cument t	the indicator or Texture	confirm t	the abse	ence of indio	
Profile Depth	Matrix Color (Moist) %		Red	lox Featu	ıres	I		confirm t	the abso		
Profile Depth (in.)	Matrix Color (Moist) 9 5YR 2.5/1 1	%	Red	lox Featu	ıres	Loc ²	Texture				
Profile Depth (in.) 0-12 12-18	Matrix Color (Moist) 9 5YR 2.5/1 1	% 100 90	Rec Color (Moist)	% Hox Featu	Type ¹	Loc² None	Texture SILT LOAM	Orga	inic stainir	Remark ng in subsoil	
Profile Depth (in.) 0-12 12-18	Matrix Color (Moist) 9 5YR 2.5/1 1 5YR 4/2 9	% 100 90 :: =Deple	Rec Color (Moist)	% Hox Featu	Type ¹	Loc² None	Texture SILT LOAM	Orga d Grains.	nnic stainir ² Lo	Remark ng in subsoil cation: PL=Po	s

Restrictive Layer Present (if present):	
Туре:	Hydric Soil Present? ✓ Yes ☐ No
Depth (inches):	nyunc son Fresent: • Tes - No
Remarks:	



DE1AW125B_060313_WET1NW.jpg Photo Name: Note: DE-1A-W125B-WET1

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	n, Township, Range: Davenport
Landform: floodplain/terrac lands	cape	Loc	cal Relief:	☐ Concave ☐ Convex ☑ None Slope (%): 1
Subregion: Middle Atlantic	Latitu	ide: 42.42318	88	Longitude: -74.96092 Datum: NAD 1988
Soil Map Unit Name: Wellsboro	channery silt loam, 15 to 2	25 percent slop	es	NWI Classification: Not Mapped
Are climatic/hydrologic conditions of	on the site typical for this ti	me of year?	✓ Yes	☐ No (If no, explain in Remarks.)
Are Vegetation Soil or H	lydrology significantly	disturbed?	No	Are "Normal Circumstances" present? ✓ Yes ☐ No
Are Vegetation Soil or H	ydrology naturally pro	blematic?	No (If needed, explain any answers in Remarks.)
SUMMARY OF FINDING	S - Attach site map	showing san	npling po	int locations, transects, important features, etc.
Hydrophytic Vegetation Present?	✓ Yes			
Hydric Soil Present?	✓ Yes	Is the Sar within a V	-	No.
Wetland Hydrology Present?	✓ Yes No	Within a v	vetiana:	
Remarks:				
Field Wetland Classification: PEI	M			
HYDROLOGY				
Wetland Hydrology Indicato	rs			
Primary Indicators (minimum of one is	equired; check all that apply)			Secondary Indicators (minimum of two required)
Surface Water (A1)		ed Leaves (B9)		Surface Soil Cracks (B6)
High Water Table (A2)	Aquatic Fau			✓ Drainage Patterns (B10)
Saturation (A3)	☐ Marl Deposi			Moss Trim Lines (B16)
☐ Water Marks (B1)		ulfide Odor (C1) iizospheres on Liv	vina Poots (C	Dry-Season Water Table (C2)
Sediment Deposits (B2)		Reduced Iron (C		oraginari Barrows (80)
Drift Deposits (B3)		Reduction in Tille	•	Saturation Visible on Aerial Imagery (C9)
☐ Algal Mat or Crust (B4)☐ Iron Deposits (B5)		Surface (C7)	ou 000 (00)	Stunted or Stressed Plants (D1)
Inundation Visible on Aerial Image		ain in Remarks)		Geomorphic Position (D2)
Sparsely Vegetated Concave Surfa	.,(5.)	,		Shallow Aquitard (D3)
Opensely regulated deficave ourse	100 (B0)			Microtopographic Relief (D4)
				FAC-Neutral Test (D5)
				Other (Explain in Remarks)
Field Observations:				
Surface Water Present:	Yes Vo Depth (i	•		
Water Table Present:	Yes V No Depth (i			
Saturation Present:	Yes No Depth (i	nches): 0		Wetland Hydrology Present? ✓ Yes ☐ No
Describe Recorded Data (stream	gauge, monitoring well, ae	rial photos, pre	vious inspe	ections), if available:
Remarks:				

Indicator
Indicator
Indicator
FACU
Indicator
OBL
FACW
FAC
FACW
FACU
FAC
Indicator

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) Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is > 50% 3 - Prevalance is ≤ 3.0 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.				resent	Prevalence Index Worksheet: Total % Cover of: Multiply by: OBL Species: 8 x1 = 8 FACW Species: 73 x2 = 146 FAC Species: 5 x3 = 15 FACU Species: 25 x4 = 100 UPL Species: 0 x5 = 0 Column Totals: 111 (A) 269 (B) Prevalence Index = B/A = 2.42 2.42				
SOIL Profile Description Depth Matrix		1	n neede		cument	the indicator or	confirm the a	bsence of indicator	s.)
(in.) Color (Moist			on . out	4.00					
) 70	Color (Moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-4 5Y 3/2 4-20 5Y 3/2	100	Color (Moist) 5Y 3/4	%	Type ¹	Loc²	Texture SANDY LOAM FINE SANDY LOAM	W/Gravel	Remarks	
	100					SANDY LOAM	,	Remarks	
	97	5Y 3/4	3	С	PL	SANDY LOAM FINE SANDY LOAM	1	Remarks Location: PL=Pore Lin	ing, M=Matrix.
4-20 5Y 3/2	100 97 on, D=Dep	5Y 3/4	3	С	PL	SANDY LOAM FINE SANDY LOAM	d Grains.		

Restrictive Layer Present (if present):	
Туре:	Hydric Soil Present? ✓ Yes ☐ No
Depth (inches):	nyunc son Fresent!
Remarks:	



DE1AW248A_110613_WET1NW.jpg Photo Name: Note: DE-1A-W248A-WET1

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 Latif	tude: 42.423269 Lo	ongitude: -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	y disturbed? 🗸 No	Are "Normal Circumstances" present? ✓ Yes ☐ No
Are Vegetation Soil or Hydrology naturally pr	roblematic? No (If	needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map	showing sampling poin	at locations, transects, important features, etc.
Hydrophytic Vegetation Present? ☐ Yes ✓ No	Is the Sampled Are	a
Hydric Soil Present? ☐ Yes ✓ No	within a Wetland?	□ Yes 🗹 No
Wetland Hydrology Present? ☐ Yes ✓ No		
Remarks: Upland plot		
Field Wetland Classification:		
HYDROLOGY		
Wetland Hydrology Indicators		
Primary Indicators (minimum of one is required; check all that apply)	='	Secondary Indicators (minimum of two required)
	ined Leaves (B9)	Surface Soil Cracks (B6) Drainage Patterns (B10)
☐ High Water Table (A2) ☐ Aquatic Fa☐ Saturation (A3) ☐ Marl Depo	·	Moss Trim Lines (B16)
	Sulfide Odor (C1)	Dry-Season Water Table (C2)
	Rhizospheres on Living Roots (C3)	
	of Reduced Iron (C4)	Saturation Visible on Aerial Imagery (C9)
	n Reduction in Tilled Soils (C6)	Stunted or Stressed Plants (D1)
☐ Iron Deposits (B5) ☐ Thick Mucl	k Surface (C7)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7) Other (Exp	olain in Remarks)	Shallow Aquitard (D3)
Sparsely Vegetated Concave Surface (B8)		Microtopographic Relief (D4)
		FAC-Neutral Test (D5)
		Other (Explain in Remarks)
Field Observations:		
Surface Water Present: ☐ Yes ✓ No Depth	(inches):	
Water Table Present: ☐ Yes ✓ No Depth	(inches):	
Saturation Present: Yes V No Depth	(inches):	Wetland Hydrology Present? ☐ Yes ✓ No
Describe Recorded Data (stream gauge, monitoring well, a	erial photos, previous inspect	tions), if available:
Remarks:		

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
Rosa multiflora		5	YES	FACU
	Total Cover:	5		
Herb Stratum				
Plot Size: 5 feet Scientific Name		% Cover	Dominant	Indicator
Phleum pratense		2	NO	FACU
Agrostis sp.		70	YES	FAC
Copteris groenlandica		5	NO	FACU
	Total Cover:	77	l	
Vine Stratum			-	
Plot Size: 30 feet Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			

Number of Dominant that are OBL, FACW, Total Number of Dom Species Across All S Percent of Dominant are OBL, FACW, or Face of the Properties of Dominant are OBL, FACW, or Face of the Properties of Dominance Teles of the Properties of Problematic Hydrounless disturbed or properties of Dominance of Dominance Teles of Dominance Teles of the Problematic Hydrounless disturbed or properties of Dominance Teles of Do	Species or FAC: inant rata: Species tha AC: getation I Hydrophytic st is > 50% 3.0 Adaptations r on a separ phytic Vege soil and wet	1 (A 2 (B 50 (A ndicators: Vegetation (Provide supportate sheet) etation¹ (Explain)) /B) rting	esent	OBL S FACW FAC S FACU UPL S Colum	alence Index % Cover of: species: species: species: pecies: precies: prevale species: prevale	0 0 70 12 0 82 ence Index =	Mu x 1 = x 2 = x 3 = x 4 = x 5 = (A) B/A =	0 0 210 48 0 258 3.15	(B) No
SOIL Profile Descriptio					cument	the indicator o	or confirm t	he abse	ence of indicato	rs.)
Depth Matri		Color (Moist)	dox Featu %	Type 1	Loc ²	Texture			Remarks	
` ,		COIOI (WOISI)	70	туре	LUC				Remarks	
0-6 7.5YR 3/2 6-15 7.5YR 3/3	100					FINE SANDY LOAI	VI			
						FINE SANDY LOAI	М			
¹ Type: C=Concentra	ion, D=Den	letion, RM=Redu	ıced Matri	x, CS=Co	overed Sa			² Loc	cation: PL=Pore Lir	ning, M=Matrix.
¹ Type: C=Concentra Hydric Soil Indica		letion, RM=Redu	ıced Matri	x, CS=Co	overed Sa		nd Grains.		cation: PL=Pore Lir Problematic Hy o	

Restrictive Layer Present (if present):			
Туре:	Uvdria Cail Dracont?	□ Yes	✓ No
Depth (inches):	Hydric Soil Present?	⊔ res	▼ NO
Remarks:			



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

Project/Site Constitution I	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: Oneor	nta	Section	on, Township, Range: Franklin
Landform: drainageway		Lo	cal Relief:	✓ Concave ☐ Convex ☐ None Slope (%): 0
Subregion: Middle Atlantic	Latitu	de: 42.3907	66	Longitude: -75.09577 Datum: NAD 1988
Soil Map Unit Name: Barbour loa	m			NWI Classification: Not Mapped
Are climatic/hydrologic conditions or	n the site typical for this ti	me of year?	✓ Yes	☐ No (If no, explain in Remarks.)
Are Vegetation Soil or Hy	ydrology significantly	disturbed?	∕ No	Are "Normal Circumstances" present? ✓ Yes ☐ No
Are Vegetation Soil or Hy	drology naturally pro	blematic?	No	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS	- Attach site map	showing sar	mpling po	oint locations, transects, important features, etc.
Hydrophytic Vegetation Present?	✓ Yes	Is the Sa	mnled A	roa
Hydric Soil Present?	✓ Yes	within a		
Wetland Hydrology Present?	✓ Yes			•
Remarks:				
Field Wetland Classification: PFO				
HYDROLOGY				
Wetland Hydrology Indicator	 S			
Primary Indicators (minimum of one is re				Secondary Indicators (minimum of two required)
Surface Water (A1)	Water Stain	ed Leaves (B9)		Surface Soil Cracks (B6)
✓ High Water Table (A2)	Aquatic Fau	na (B13)		✓ Drainage Patterns (B10)
✓ Saturation (A3)	Marl Deposi	ts (B15)		Moss Trim Lines (B16)
Water Marks (B1)	Hydrogen S	ulfide Odor (C1)		Dry-Season Water Table (C2)
Sediment Deposits (B2)		izospheres on Li		C3) Crayfish Burrows (C8)
Drift Deposits (B3)		Reduced Iron (C	•	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Reduction in Till	ed Soils (C6)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)		Surface (C7)		Geomorphic Position (D2)
Inundation Visible on Aerial Imagery	/ (B7) Uther (Expla	in in Remarks)		Shallow Aquitard (D3)
Sparsely Vegetated Concave Surface	ce (B8)			Microtopographic Relief (D4)
				FAC-Neutral Test (D5)
				Other (Explain in Remarks)
Field Observations:				
_	Yes 🗸 No Depth (i	nches):		
Water Table Present:	_ : `	nches): 6		
Saturation Present:		nches): 0		Wetland Hydrology Present? ✓ Yes ☐ No
Describe Recorded Data (stream g	auge, monitoring well, ae	rial photos, pre	evious insp	ections), if available:
Remarks:				

VEGETATION				
Tree Stratum				
Plot Size: 30 feet Scientific Name		% Cover	Dominant	Indicator
Acer rubrum		40	YES	FAC
Crataegus crus-galli		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
Impatiens capensis		18	YES	FACW
Symphyotrichum lateriflorum		10	NO	FAC
Juncus effusus		3	NO	OBL
Solidago gigantea		25	YES	FACW
	Total Cover:	56		
Vine Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			

Number that are Total No Species Percent	nance Test Wol of Dominant Speci OBL, FACW, or FA umber of Dominant Across All Strata: of Dominant Speci _, FACW, or FAC:	ies AC:	4 (A))		Total % OBL S FACW FAC S FACU UPL S	Alence Index V 6 Cover of: pecies: Species: pecies: Species: pecies: n Totals:	3 43 75 0 0 121 nce Index =	x 1 = x 2 = x 3 = x 4 = x 5 = (A)		3 86 225 0 0 314 (B)
1 - R 2 - D 3 - P 4 - N data Prob	apid Test for Hydro ominance Test is > revalance is ≤ 3.0 lorphological Adapta in Remarks or on a lematic Hydrophytic tors of hydric soil ar disturbed or proble	ophytic ' 50% ations¹ a separa c Vegei	Vegetation (Provide supporate sheet) tation¹ (Explain)	Ü	resent	Hydro	phytic Vegeta			✓ Yes		,
Remark	5:											
SOIL	Description: (D	ocorib	o to the don't	h naada	d to do	oumant t	the indicator or	oonfirm	the above	once of inc	licatora	,
Profile	Description: (De	escrib	_			cument t	the indicator or	confirm	the abso	ence of inc	licators	.)
	Matrix	escrib	_	h neede dox Featu		Cument to	the indicator or Texture	confirm	the abso	ence of inc		.)
Profile Depth	Matrix Color (Moist)		Red	dox Feat	ures			confirm :				.)
Profile Depth (in.)	Matrix Color (Moist)	%	Red	dox Feat	ures		Texture					.)
Profile Depth (in.) 0-14 14-20	Matrix Color (Moist) 7.5YR 2.5/2	% 100 95	Rec Color (Moist) 7.5YR 4/4	dox Featu	Type ¹	Loc²	Texture FINE SANDY LOAM SILT LOAM	Muc	cky	Remar	ks	.) g, M=Matrix.
Profile Depth (in.) 0-14 14-20	Matrix Color (Moist) 7.5YR 2.5/2 7.5YR 4/2	% 100 95 D=Depl	Rec Color (Moist) 7.5YR 4/4	dox Featu	Type ¹	Loc²	Texture FINE SANDY LOAM SILT LOAM	Muc	² Lo	Remar	ks ore Linin	g, M=Matrix.

Restrictive Layer Present (if present):	
Туре:	Hydric Soil Present? ✓ Yes ☐ No
Depth (inches):	nyunc son Fresent?
Remarks:	



DE1AW361_111213_WET1SW.jpg Photo Name: Note: DE-1A-W361-WET1

Project/Site Constitution Mil	epost	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: Oneon	ıta	Section	on, Township, Range: Franklin
Landform: Hillside/Sideslope		Lo	cal Relief:	☐ Concave ☐ Convex ☑ None Slope (%): 15
Subregion: Middle Atlantic	Latitu	de: 42.39084	48	Longitude:75.09607
Soil Map Unit Name: Lackawanna a	and Bath soils, 15 to 35	percent slope	s, very sto	ny NWI Classification: Not Mapped
Are climatic/hydrologic conditions on the	ne site typical for this tir	me of year?	✓ Yes	☐ No (If no, explain in Remarks.)
Are Vegetation Soil or Hydr	rology significantly	disturbed?	∕ No	Are "Normal Circumstances" present? ✓ Yes No
Are Vegetation Soil or Hydro	ology naturally pro	blematic?	√ No	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS -	Attach site map	showing sar	mpling po	oint locations, transects, important features, etc.
Hydrophytic Vegetation Present? [Yes ✓ No	le the Se	mplad A	***
Hydric Soil Present?	Yes ✓ No	Is the Sar within a		
Wetland Hydrology Present?	Yes ✓ No			•
Remarks: upland pkot; share with D	E-1A-W362	I		
Field Wetland Classification:				
HYDROLOGY				
Wetland Hydrology Indicators				
Primary Indicators (minimum of one is requ	ired; check all that apply)			Secondary Indicators (minimum of two required)
Surface Water (A1)		ed Leaves (B9)		Surface Soil Cracks (B6)
High Water Table (A2)	Aquatic Faui Marl Deposit			Drainage Patterns (B10)
Saturation (A3)	_	ulfide Odor (C1)		Moss Trim Lines (B16)
Water Marks (B1)		izospheres on Li	ivina Roots (Dry-Season Water Table (C2)
Sediment Deposits (B2)		Reduced Iron (C		Grayiish Barrows (00)
Drift Deposits (B3) Algal Mat or Crust (B4)		Reduction in Till	-	Saturation Visible on Aerial Imagery (C9)
☐ Iron Deposits (B5)	☐ Thick Muck	Surface (C7)		Stunted or Stressed Plants (D1)
Inundation Visible on Aerial Imagery (E	Other (Expla	in in Remarks)		Geomorphic Position (D2)
Sparsely Vegetated Concave Surface	•			Shallow Aquitard (D3)
	. ,			Microtopographic Relief (D4)
				FAC-Neutral Test (D5) Other (Explain in Remarks)
				Une (Explain in Nemarks)
Field Observations:	_			
Surface Water Present:				
Water Table Present:	_ · ·	*		
Saturation Present: Ye	es 🗸 No Depth (ii	nches):		Wetland Hydrology Present? ☐ Yes ✓ No
Describe Recorded Data (stream gau	ge, monitoring well, aer	rial photos, pre	evious insp	ections), if available:
Remarks:				

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

Hydrop Hydrop 1 - Ra 2 - Do 3 - Pr 4 - Mo data ii Proble	ance Test Wor of Dominant Specie OBL, FACW, or FA mber of Dominant Across All Strata: of Dominant Specie , FACW, or FAC: phytic Vegetat phytic Vegetat print Test for Hydrop print Test for Hydrop print Test for Hydrop print Remarks or on a mematic Hydrophytic print of hydric soil and disturbed or probler :	es that ion In phytic \ 50% ations¹ separa c Veget and wetla	0 (A) 3 (B) 0 (A/ ndicators: Vegetation (Provide supporate sheet) ation¹ (Explain)	B) ting	esent	Total 9 OBL S FACW FAC S FACU UPL S Colum	alence Index Wo	Multiply by: 0	
SOIL Profile	Description: (De	escrib	e to the depti	n neede	d to doo	sument :	the indicator or o	confirm the absence of indicators.)	
Depth	Matrix	000.18	o to the dopti						
			Red	lox Featu			ine indicator or c	in the absence of indicators.)	
(in.)	Color (Moist)	%	Red Color (Moist)	lox Featu %		Loc ²	Texture	Remarks	
` '		%			ires	П			
0-6	7.5YR 3/2				ires	П	Texture		
0-6	7.5YR 3/2 5YR 3/4	100	Color (Moist)	%	Type ¹	Loc ²	Texture FINE SANDY LOAM	Remarks	ix.
0-6 6-16	7.5YR 3/2 5YR 3/4	100 100 D=Deple	Color (Moist)	%	Type ¹	Loc ²	Texture FINE SANDY LOAM FINE SANDY LOAM	Remarks	ix.

Restrictive Layer Present (if present):			
Туре:	Hydric Soil Present?	☐ Yes	✓ No
Depth (inches):	Tryunc 3011 Fresent:	□ 1 6 5	™ NO
Remarks:			



DE1AW361_111213_UPL1NW.jpg Photo Name: Note: DE-1A-W361-UPL1

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: Oneo	nta	Section	on, Township, Range: Franklin
Landform: drainageway		Loc	cal Relief:	✓ Concave ☐ Convex ☐ None Slope (%): 0
Subregion: Middle Atlantic	Latit	ude: 42.39069	92	Longitude: -75.09610 Datum: NAD 1988
Soil Map Unit Name: Barbour loa	am			NWI Classification: Not Mapped
Are climatic/hydrologic conditions of	on the site typical for this t	ime of year?	✓ Yes	☐ No (If no, explain in Remarks.)
Are Vegetation Soil or H	ydrology significantly	disturbed?	∕ No	Are "Normal Circumstances" present? ✓ Yes ✓ No
Are Vegetation Soil or Hy	ydrology naturally pro	oblematic?	N O	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS	S - Attach site map	showing sar	npling po	oint locations, transects, important features, etc.
Hydrophytic Vegetation Present?	✓ Yes			
Hydric Soil Present?	✓ Yes No	Is the Sar within a \	-	. Zi Voo III No
Wetland Hydrology Present?	✓ Yes No	Within a	retiana	•
Remarks: Use DE-1A-W361-UPI	_1 as representative uplar	nd plot		
Field Wetland Classification: PEN	Л			
HYDROLOGY				
Wetland Hydrology Indicato	rs			
Primary Indicators (minimum of one is r Surface Water (A1) High Water Table (A2) ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imager Sparsely Vegetated Concave Surface	Water Stair Aquatic Fat Marl Depos Hydrogen S Oxidized RI Presence o Recent Iron Thick Muck		24)	Saturation Visible on Aerial Imagery (C9)
Surface Water Present: Water Table Present: Saturation Present:	Yes No Depth (Yes No Depth (inches): inches): inches): 0		Wetland Hydrology Present? ✓ Yes □ No
Describe Recorded Data (stream of	gauge, monitoring well, as	erial photos, pre	evious insp	ections), if available:
Remarks:				
1				

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		1	ı	Í
Scientific Name		% Cover	Dominant	Indicator
Rosa multiflora		20	YES	FACU
	Total Cover:	20		
Herb Stratum				
Plot Size: 5 feet				
Scientific Name		% Cover	Dominant	Indicator
Symphyotrichum lateriflorum		15	YES	FAC
Phalaris arundinacea		40	YES	FACW
Rumex crispus		8	NO	FAC
Arctium minus		5	NO	FACU
	Total Cover:	68		
Vine Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:	1		

that are Total Ni Species Percent are OBI	nance Test Wo of Dominant Spec OBL, FACW, or F umber of Dominant Across All Strata: of Dominant Spec L, FACW, or FAC:	cies FAC: t : cies that	2 (A) 3 (B) 67 (A))		Total 9 OBL S FACW FAC S FACU UPL S	Cover of pecies: Species: Species: Species: pecies: pecies:	2	0 0 3 5 0 8	x 1 = x 2 = x 3 = x 4 = x 5 = (A)		0 80 69 100 0 249	(B)	
2 - D 3 - P 4 - M data Prob Indica unless	apid Test for Hydro ominance Test is ≈ revalance is ≤ 3.0 lorphological Adap in Remarks or on a lematic Hydrophyti tors of hydric soil a disturbed or proble	> 50% otations¹ a separatic Vege	(Provide suppor ate sheet) tation¹ (Explain)	J	esent	Hydro	ophytic '	Vegetation	Pre	sent?	⊻ Yes		No	
Remarks	3:													
SOIL														
SOIL Profile	Description: (D	Descrik	pe to the deptl	n neede	d to do	cument	the indic	ator or confi	rm 1	the abse	ence of ind	licato	rs.)	
Profile Depth	Matrix		Red	lox Featu	ıres				rm 1	the abse			rs.)	
Profile Depth (in.)	Matrix Color (Moist)	%	-			Loc ²	Te	exture	rm t	he abse	ence of ind Remar		rs.)	
Profile Depth	Matrix		Red	lox Featu	ıres			exture	rm t	he abse			rs.)	
Profile Depth (in.)	Matrix Color (Moist)	%	Red Color (Moist)	lox Featu %	Type ¹	Loc²	Te	exture DY LOAM			Remar	ks	rs.) ning, M=Matr	ix.
Profile Depth (in.) 0-20	Matrix Color (Moist) 5YR 3/2	% 100 D=Depl	Red Color (Moist)	lox Featu %	Type ¹	Loc²	Te	DY LOAM uted Sand Grain	S.	² Loo	Remar	ks ore Li	ning, M=Matr	ix.

Restrictive Layer Present (if present):			
Туре:	Hydric Soil Present?	✓ Yes	□ No
Depth (inches):	Tryunc 3011 Fresent:	<u> 163</u>	□ NO
Remarks:			

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	n, Township, Range: Franklin
Landform: Drainageway		Lo	cal Relief:	✓ Concave ☐ Convex ☐ None Slope (%): 2
Subregion: Middle Atlantic	Latitu	de: 42.38336	31	Longitude: -75.12731 Datum: NAD 1983
Soil Map Unit Name: Morris and	Volusia soils, 2 to 10 perc	ent slopes, ve	ry stony	NWI Classification: Not mapped
Are climatic/hydrologic conditions of	on the site typical for this tir	me of year?	✓ Yes	☐ No (If no, explain in Remarks.)
Are Vegetation Soil or F	Hydrology significantly	disturbed?	No	Are "Normal Circumstances" present? ✓ Yes ✓ No
Are Vegetation Soil or H	ydrology 🔲 naturally pro	oblematic?	No	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDING	S - Attach site map	showing sar	npling po	oint locations, transects, important features, etc.
Hydrophytic Vegetation Present?	✓ Yes	Is the Sai	mpled A	702
Hydric Soil Present?	✓ Yes	within a \		
Wetland Hydrology Present?	✓ Yes No			
Remarks:				
Field Wetland Classification: PF0)			
HYDROLOGY				
Wetland Hydrology Indicato	rs			
Primary Indicators (minimum of one is	required; check all that apply)			Secondary Indicators (minimum of two required)
Surface Water (A1)	✓ Water Stain	, ,		Surface Soil Cracks (B6)
✓ High Water Table (A2)	Aquatic Fau			✓ Drainage Patterns (B10)
Saturation (A3)	☐ Marl Deposit	ulfide Odor (C1)		Moss Trim Lines (B16)
Water Marks (B1)		izospheres on Li	vina Roots (Dry-Season Water Table (C2)
Sediment Deposits (B2)		Reduced Iron (C		Orayiish Barrows (00)
☐ Drift Deposits (B3) ☐ Algal Mat or Crust (B4)		Reduction in Tille	-	Saturation Visible on Aerial Imagery (C9)
Iron Deposits (B5)		Surface (C7)	` '	Stunted or Stressed Plants (D1)
Inundation Visible on Aerial Image	ry (B7) Other (Expla	ain in Remarks)		Geomorphic Position (D2)
Sparsely Vegetated Concave Surfa				Shallow Aquitard (D3)
	,			Microtopographic Relief (D4)
				FAC-Neutral Test (D5)
				Other (Explain in Remarks)
Field Observations:				
	Yes 🔽 No Depth (ii			
<u> </u>		nches): 6		
Saturation Present:	Yes No Depth (ii	nches): 0		Wetland Hydrology Present? ✓ Yes □ No
Describe Recorded Data (stream	gauge, monitoring well, ae	rial photos, pre	evious insp	ections), if available:
Remarks:				

% Cover	Dominant	Indicator
60	YES	FACU
60		·
% Cover	Dominant	Indicator
2	YES	FAC
2		
% Cover	Dominant	Indicator
5	YES	FACU
5		·
% Cover	Dominant	Indicator
60	YES	OBL
1	NO	FAC
15	NO	FACW
76	1	
% Cover	Dominant	Indicator
	60 : 60 % Cover 2 : 2 % Cover 5 : 5 % Cover 60 1 15 : 76	60 YES

Dominance Test Number of Dominant S that are OBL, FACW, or Total Number of Dominant S pecies Across All Strategies Percent of Dominant S are OBL, FACW, or FA The Strategies Percent of Dominant S are OBL, FACW, or FA The Strategies Percent of Dominant S are OBL, FACW, or FA The Strategies Percent of Dominant S are OBL, FACW, or FA The Strategies Percent S are OBL, FACW, or FA The Strateg	pecies or FAC: nant ata: pecies tha C: etation I ydrophytic is > 50% 3.0 daptations on a separ hytic Vege bil and wel	2 (A) 4 (B) t 50 (A) ndicators: Vegetation 1 (Provide supportate sheet) etation¹ (Explain) eland hydrology m	(B)	esent	Total 9 OBL S FACW FAC S FACU UPL S Colum	alence Index 6 Cover of: pecies: Species: pecies: pecies: prevale Prevale	60 15 3 65 0 143 ence Index = E	Mult x 1 =	tiply by: 60 30	
SOIL Profile Description	: (Descri	be to the depti	n needed	d to doc	cument	the indicator o	r confirm th	e abse	nce of indicators.)	
Depth Matrix	2,		lox Featu		1 2					
(in.) Color (Moist)		Color (Moist)	%	Type ¹	Loc ²	Texture			Remarks	
0-10 7.5YR 3/1 10-16 7.5YR 4/2	95	7.5YR 4/4	5	С	М	SILT LOAM				
						SANDY LOAM				
¹ Type: C=Concentration	on, D=Dep	letion, RM=Redu	ced Matrix	x, CS=Co	overed Sa		nd Grains.	² Loc	ation: PL=Pore Lining,	M=Matrix.
¹ Type: C=Concentration Hydric Soil Indicate		letion, RM=Redu	ced Matrix	x, CS=Co	overed Sa				ation: PL=Pore Lining,	

Restrictive Layer Present (if present):	
Туре:	Hydric Soil Present? ✓ Yes ☐ No
Depth (inches):	nyunc son Fresent? ■ res □ No
Remarks:	,



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

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	on, Township, Range: Franklin
Landform: sideslope		Lo	cal Relief:	✓ Concave ☐ Convex ☐ None Slope (%): 2
Subregion: Middle Atlantic	Latitu	de: 42.38357	74	Longitude: -75.12766 Datum: NAD 1983
Soil Map Unit Name: Morris and	Volusia soils, 2 to 10 perc	ent slopes, ve	ry stony	NWI Classification: Not mapped
Are climatic/hydrologic conditions of	on the site typical for this ti	me of year?	✓ Yes	☐ No (If no, explain in Remarks.)
Are Vegetation Soil or H	lydrology significantly	disturbed?	No	Are "Normal Circumstances" present? ✓ Yes ✓ No
Are Vegetation Soil or H	ydrology 🔲 naturally pro	blematic?	No	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDING	S - Attach site map	showing sar	mpling po	oint locations, transects, important features, etc.
Hydrophytic Vegetation Present?	✓ Yes	Is the Sai	mplad A	702
Hydric Soil Present?	✓ Yes	within a \		
Wetland Hydrology Present?	✓ Yes			
Remarks:				
Field Wetland Classification: PF0)			
HYDROLOGY				
Wetland Hydrology Indicato	rs			
Primary Indicators (minimum of one is r	required; check all that apply)			Secondary Indicators (minimum of two required)
Surface Water (A1)	✓ Water Stain			Surface Soil Cracks (B6)
High Water Table (A2)	☐ Aquatic Fau			✓ Drainage Patterns (B10)
Saturation (A3)	Marl Deposi			Moss Trim Lines (B16)
Water Marks (B1)		ulfide Odor (C1)	vina Dooto (Dry-Season Water Table (C2)
Sediment Deposits (B2)		izospheres on Li Reduced Iron (C		Ordynan Burrows (00)
Drift Deposits (B3)		Reduction in Tille	•	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Iron Deposits (B5)		Surface (C7)	00 00110 (00)	Stunted or Stressed Plants (D1)
Inundation Visible on Aerial Image		ain in Remarks)		Geomorphic Position (D2)
Sparsely Vegetated Concave Surfa	.,(5.)	,		Shallow Aquitard (D3)
openiony vogetation contents curre	200 (20)			Microtopographic Relief (D4)
				FAC-Neutral Test (D5)
				Other (Explain in Remarks)
Field Observations:				
Surface Water Present:	Yes 🗸 No Depth (i	nches):		
Water Table Present:	Yes No Depth (i	nches): 6		
Saturation Present:	Yes No Depth (i	nches): 0		Wetland Hydrology Present? ✓ Yes No
Describe Recorded Data (stream of	gauge, monitoring well, ae	rial photos, pre	evious insp	ections), if available:
Remarks:				

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Tsuga canadensis	10	NO	FACU
Betula alleghaniensis	60	YES	FAC
Fagus americana	10	NO	FACU
Total Cove	r: 80		
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cove	r:		
Shrub Stratum			
Plot Size: 15 feet	1	1	1
Scientific Name	% Cover	Dominant	Indicator
Fagus americana	8	YES	FACU
Total Cove	r: 8		
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
Onoclea sensibilis	20	YES	FACW
Erythronium americanum	5	NO	FACU
Coptis trifolia	18	YES	FACW
Total Cove	r: 43		
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cove	r:		

Dominance Test Worksheet: Number of Dominant Species Question Prevalence Index Worksheet: Total Number of Dominant Species A (8) FACW, or FAC: 3 (A) Total Number of Dominant Species Across All Strate: 4 (8) FACW Species: 0	Domii											
Solicy S	Numbe			eet:					Workshee		Itiply by:	
FACW Species 38 x 2 = 76	that are	OBL, FACW, or	FAC:	3 (A))		OBL S	inecies:	0	x 1 =	0	
FAC Species 00 x 3 = 180				4 (D	`					-		
FACU Species 33	•)			· -				
UPL Species: 0 x 5 = 0 Column Totals: 131 (A) 388 (B) Prevalence Index = BIA = 2.96 Hydrophytic Vegetation Indicators: 1 1 - Rapid Test for Hydrophytic Vegetation 2 2 - Dominance Test is > 50% 3 3 - Prevalence is ≤ 3.0 4 - Morphological Adaptations' (Provide supporting data in Remarks or or a separate sheet) Problematic Hydrophytic Vegetation (Explain) 'Indicators of hydric soil and welfand hydrology must be present unless disturbed or problematic. Problematic Hydrophytic Vegetation' (Explain) Problematic Hydrophytic Vegetation Present? Problemat					/B)							
Column Totals: 131 (A) 388 (B)	are OB	L, FACW, OF FAC	-		,,,			· —		-		
Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is > 50% 3 - Prevalence is 4 3.0 4 - Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation (Explain) Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic. Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Popth								•		-		(D)
Hydrophytic Vegetation Indicators: ☐ 1 - Rapid Test for Hydrophytic Vegetation ☑ 2 - Dominance Test is > 50% ☑ 3 - Prevalance is ≤ 3.0 ☐ 4 - Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet) ☐ Problematic Hydrophytic Vegetation (Explain) ☐ Indicators of hydric soil and welland hydrology must be present unless disturbed or problematic. Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Perfile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Perfile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Perfile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Perfile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Perfile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Perfile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Perfile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Perfile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Perfile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Perfile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Perfile Description: (Description: (Perfile Description: (Perfile Des							Coluiti					(B)
1 - Rapid Test for Hydrophytic Vegetation Present?								Prevale	ence Index =	B/A =	2.96	-
Hydrophytic Vegetation Present? Yes No	Hydro	phytic Veget	ation I	ndicators:								
y 3 - Prevalance is ≤ 3.0 □ 4 - Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet) □ Problematic Hydrophytic Vegetation' (Explain) *Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic. **Remarks:* **SOIL** **Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) **Depth Matrix Redox Features (in.) Color (Moist) % Type 1 Loc2 Texture Remarks **O-10 7.5YR 3/1 100 **O-10 7.5YR 3	1 - R	tapid Test for Hyd	rophytic	Vegetation								
4 - Morphological Adaptations* (Provide supporting data in Remarks or on a separate sheet)							Hydro	ophytic Veget	tation Pre	sent?	✓ Yes	No
SOIL Profile Description: (Describe to the depth needed to document the Indicator or confirm the absence of indicators.) Profile Description: (Describe to the depth needed to document the Indicator or confirm the absence of indicators.) Per	✓ 3 - P	revalance is ≤ 3.0)									
SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth					rting							
SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (in.) Color (Moist) % Color (Moist) % Type 1 Loc2 Texture Remarks	☐ Prob	lematic Hydrophy	tic Vege	etation¹ (Explain)								
Remarks:				land hydrology m	nust be pr	esent						
SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth		<u>'</u>										
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth	Remark	5.										
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth												
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth												
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Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth												
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth												
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Depth Matrix Redox Features Remarks	SOIL											
(in.) Color (Moist) % Color (Moist) % Type 1 Loc2 Texture Remarks 10-10 7.5YR 3/1 100		Docarintion	Dogorii		h noodo	d to do	numant	the indicator o	r oonfirm t	ho obco	ones of indicate)
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: Histosol (A1)	Profile	1	Descri	1			cument	the indicator o	or confirm t	he abse	ence of indicate	ors.)
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: Histosol (A1)	Profile Depth	Matrix		Rec	dox Featu	ıres	Т		or confirm t	he abse		ors.)
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains. Hydric Soil Indicators:	Profile Depth	Matrix		Rec	dox Featu	ıres	Т		or confirm t	he abse		ors.)
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains. Hydric Soil Indicators:	Profile Depth (in.)	Matrix Color (Moist)	%	Rec	dox Featu	ıres	Т	Texture	or confirm t	he abse		ors.)
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains. Hydric Soil Indicators:	Profile Depth (in.)	Matrix Color (Moist)	%	Rec	dox Featu	ıres	Т	Texture	or confirm t	he abse		ors.)
Hydric Soil Indicators: Histosol (A1)	Profile Depth (in.)	Matrix Color (Moist)	%	Rec	dox Featu	ıres	Т	Texture	or confirm t	he abse		ors.)
Hydric Soil Indicators: Histosol (A1)	Profile Depth (in.)	Matrix Color (Moist) 7.5YR 3/1	% 100	Rec Color (Moist)	dox Featu %	Type ¹	Loc ²	Texture SILT LOAM	or confirm t	he abse		ors.)
Hydric Soil Indicators: Histosol (A1)	Profile Depth (in.)	Matrix Color (Moist) 7.5YR 3/1	% 100	Rec Color (Moist)	dox Featu %	Type ¹	Loc ²	Texture SILT LOAM	or confirm t	he abse		ors.)
Histosol (A1)	Profile Depth (in.)	Matrix Color (Moist) 7.5YR 3/1	% 100	Rec Color (Moist)	dox Featu %	Type ¹	Loc ²	Texture SILT LOAM	or confirm t	he abse		ors.)
Histic Epipedon (A2) □ Histic Epipedon (A2) □ Black Histic (A3) □ Loamy Mucky Mineral (F1) (LRR K, L) □ Hydrogen Sulfide (A4) □ Stratified Layers (A5) □ Depleted Below Dark Surface (A11) □ Thick Dark Surface (A12) □ Sandy Mucky Mineral (S1) □ Sandy Gleyed Matrix (S4) □ Sandy Redox (S5) □ Stripped Matrix (S6) □ Dark Surface (S7) (LRR R, MLRA 149B) □ Coast: Prairie Redox (A16) (LRR K, L, R) □ Dark Surface (S3) (LRR K, L, R) □ Dark Surface (S7) (LRR K, L, M) □ Dark Surface (S7) (LRR K, L) □ Dark Surface (S8) (LRR K, L) □ Dark Surface (S9) (LRR K, L) □ Thin Dark Surface (S9) (LRR K, L) □ Iron-Manganese Masses (F12) (LRR K, L, R) □ Polyvalue Below Surface (S9) (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)	Profile Depth (in.) 0-10	Matrix Color (Moist) 7.5YR 3/1 7.5YR 4/2	% 100 95	Rec Color (Moist) 7.5YR 4/4	dox Featu	Type ¹	Loc²	Texture SILT LOAM SANDY LOAM			Remarks	
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) ☐ S cm Mucky Peat or Peat (S3) (LRR K, L, R) ☐ Dark Surface (S7) (LRR K, L, M) ☐ Depleted Layers (A5) ☐ Depleted Below Dark Surface (A11) ☐ Thick Dark Surface (A12) ☐ Sandy Mucky Mineral (S1) ☐ Sandy Gleyed Matrix (S4) ☐ Sandy Redox (S5) ☐ Stripped Matrix (S6) ☐ Dark Surface (S7) (LRR R, MLRA 149B) ☐ Coast: Prairie Redox (A16) (LRR K, L, R) ☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L, M) ☐ Dark Surface (S7) (LRR K, L, M) ☐ Dark Surface (S7) (LRR K, L, M) ☐ Dark Surface (S8) (LRR K, L) ☐ Thin Dark Surface (S9) (LRR K, L) ☐ Thin Dark Surface (S9) (LRR K, L) ☐ Iron-Manganese Masses (F12) (LRR K, L, R) ☐ Piedmont Floodplain Soils (F19) (MLRA 149B) ☐ Red Parent Material (F21) ☐ Very Shallow Dark Surface (TF12) ☐ Other (Explain in Remarks) ☐ Other (Explain in Remarks)	Profile Depth (in.) 0-10 10-16	Matrix Color (Moist) 7.5YR 3/1 7.5YR 4/2 C=Concentration	% 100 95 , D=Dep	Rec Color (Moist) 7.5YR 4/4	dox Featu	Type ¹	Loc²	Texture SILT LOAM SANDY LOAM	nd Grains.	² Loc	Remarks cation: PL=Pore L	ining, M=Matrix.
Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) 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) Thick Dark Surface (A12) Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Redox (S5) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)	Profile Depth (in.) 0-10 10-16	Matrix Color (Moist) 7.5YR 3/1 7.5YR 4/2 C=Concentration c Soil Indicator	% 100 95 , D=Dep	Rec Color (Moist) 7.5YR 4/4 letion, RM=Redu	sced Matri	Type 1 C c c x, CS=Co	PL overed Sa	Texture SILT LOAM SANDY LOAM and or Coated Sal	nd Grains.	² Loc ors for I	Remarks cation: PL=Pore L Problematic Hy	ining, M=Matrix.
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) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Redox (S5) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks)	Profile Depth (in.) 0-10 10-16	Matrix Color (Moist) 7.5YR 3/1 7.5YR 4/2 C=Concentration C Soil Indicator tosol (A1)	% 100 95 , D=Dep	Rec Color (Moist) 7.5YR 4/4 letion, RM=Redu	5 syvalue Belo	Type 1 C c x, CS=Co	PL overed Sa	Texture SILT LOAM SANDY LOAM and or Coated San R, MLRA 149B)	nd Grains. Indicat	² Loc ors for I Muck (A10	Remarks cation: PL=Pore L Problematic Hy 0) (LRR K, L, MLRA	ining, M=Matrix. ydric Soils 149B)
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) □ Thick Dark Surface (A12) □ Depleted Dark Surface (F7) □ Iron-Manganese Masses (F12) (LRR K, L, R) □ Sandy Mucky Mineral (S1) □ Redox Depressions (F8) □ Piedmont Floodplain Soils (F19) (MLRA 149B) □ Sandy Redox (S5) □ Mesic Spodic (TA6) (MLRA 144A, 145, 149B) □ Stripped Matrix (S6) □ Red Parent Material (F21) □ Very Shallow Dark Surface (TF12) □ Other (Explain in Remarks)	Profile Depth (in.) 0-10 10-16	Matrix Color (Moist) 7.5YR 3/1 7.5YR 4/2 C=Concentration c Soil Indicator tosol (A1) tic Epipedon (A2)	% 100 95 , D=Dep	Rec Color (Moist) 7.5YR 4/4 letion, RM=Redu	5 syvalue Belon Dark Surf	Type 1 C x, CS=Co w Surface face (S9) (PL overed Sa	Texture SILT LOAM SANDY LOAM and or Coated Sal R, MLRA 149B) RA 149B)	nd Grains. Indicat 2 cm Coas	² Loc ors for I Muck (A10 Mt: Prairie R	Remarks Cation: PL=Pore L Problematic Hy 0) (LRR K, L, MLRA Redox (A16) (LRR K,	ining, M=Matrix. /dric Soils 149B) L, R)
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Redox Dark Surface (F6) 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)	Profile Depth (in.) 0-10 10-16 Type: Hydrid His His Bla	Matrix Color (Moist) 7.5YR 3/1 7.5YR 4/2 C=Concentration c Soil Indicator tosol (A1) tic Epipedon (A2) ck Histic (A3)	% 100 95 , D=Dep	Rec Color (Moist) 7.5YR 4/4 letion, RM=Redu Poly Thir Loa	5 syvalue Belom Dark Surfamy Mucky	Type 1 C C X, CS=Co W Surface Face (S9) (I Mineral (F	PL overed Sa (S8) (LRR LRR R, ML 1) (LRR K,	Texture SILT LOAM SANDY LOAM and or Coated Sal R, MLRA 149B) RA 149B)	nd Grains. Indicat 2 cm Coas 5 cm	² Loc ors for I Muck (A10 it: Prairie R Mucky Pe	Remarks cation: PL=Pore L Problematic Hy 0) (LRR K, L, MLRA Redox (A16) (LRR K, at or Peat (S3) (LRR	ining, M=Matrix. /dric Soils 149B) L, R)
Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Depleted Dark Surface (F7) 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)	Profile Depth (in.) 0-10 10-16 Type: Hydric His His Bla Hydric	Matrix Color (Moist) 7.5YR 3/1 7.5YR 4/2 C=Concentration c Soil Indicator tosol (A1) tic Epipedon (A2) ck Histic (A3) drogen Sulfide (A4)	% 100 95 , D=Dep	Rec Color (Moist) 7.5YR 4/4 letion, RM=Redu Poly Thir Loa Loa	5 syvalue Belder Dark Surfumy Mucky	Type 1 C Ex, CS=Co Ex Surface Face (S9) (I Mineral (F) Matrix (F2)	PL overed Sa (S8) (LRR LRR R, ML 1) (LRR K,	Texture SILT LOAM SANDY LOAM and or Coated Sal R, MLRA 149B) RA 149B)	nd Grains. Indicat 2 cm Coas 5 cm Dark	² Loc ors for I Muck (A10 tt: Prairie R Mucky Per Surface (S	Remarks Cation: PL=Pore L Problematic Hy 0) (LRR K, L, MLRA Redox (A16) (LRR K, at or Peat (S3) (LRR S7) (LRR K, L, M)	ining, M=Matrix. /dric Soils 149B) L, R) RK, L, R)
Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Redox Depressions (F8) 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)	Profile Depth (in.) 0-10 10-16 Type: Hydric His His His Hyd	Matrix Color (Moist) 7.5YR 3/1 7.5YR 4/2 C=Concentration C Soil Indicator tosol (A1) tic Epipedon (A2) ck Histic (A3) drogen Sulfide (A4) atified Layers (A5)	% 100 95 , D=Dep	Rec Color (Moist) 7.5YR 4/4 Ietion, RM=Redu Poly Thir Loa Loa Dep	5 sced Matri yvalue Belo n Dark Surl imy Mucky imy Gleyed oleted Matri	Type 1 C Ex, CS=Co ow Surface face (S9) (i Mineral (F Matrix (F2 ix (F3)	PL overed Sa (S8) (LRR LRR R, ML 1) (LRR K,	Texture SILT LOAM SANDY LOAM and or Coated Sal R, MLRA 149B) RA 149B)	nd Grains. Indicat 2 cm Coas 5 cm Dark Polyv	² Loc ors for I Muck (A10 it: Prairie R Mucky Pe Surface (S value Belov	Remarks Cation: PL=Pore L Problematic Hy O) (LRR K, L, MLRA Redox (A16) (LRR K, at or Peat (S3) (LRR S7) (LRR K, L, M) w Surface (S8) (LRR	ining, M=Matrix. /dric Soils 149B) L, R) RK, L, R)
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) 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)	Profile Depth (in.) 0-10 10-16 Type: Hydric His Bla Hyd Stra Dep	Matrix Color (Moist) 7.5YR 3/1 7.5YR 4/2 C=Concentration C Soil Indicator tosol (A1) tic Epipedon (A2) ck Histic (A3) drogen Sulfide (A4) atified Layers (A5) oleted Below Dark S	% 100 95 , D=Dep	Rec Color (Moist) 7.5YR 4/4 Ietion, RM=Redu Poly Thir Loa Loa V Dep	5 syvalue Belom Dark Surfamy Mucky Imy Gleyed Deted Matridox Dark Si	Type 1 C C Ex, CS=Co ow Surface face (S9) (I Mineral (F Matrix (F2 ix (F3) urface (F6)	PL overed Sa (S8) (LRR LRR R, ML 1) (LRR K,	Texture SILT LOAM SANDY LOAM and or Coated Sal R, MLRA 149B) RA 149B)	nd Grains. Indicat 2 cm Coas 5 cm Dark Polyo	² Loc ors for I Muck (A10 it: Prairie R Mucky Per Surface (S value Below Dark Surfa	Remarks Cation: PL=Pore L Problematic Hy 0) (LRR K, L, MLRA Redox (A16) (LRR K, at or Peat (S3) (LRR 67) (LRR K, L, M) w Surface (S8) (LRR ace (S9) (LRR K, L)	ining, M=Matrix. /dric Soils 149B) L, R) RK, L, R)
Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks)	Profile Depth (in.) 0-10 10-16 1 Type: Hydric His Bla Hyc Stra Dep	Matrix Color (Moist) 7.5YR 3/1 7.5YR 4/2 C=Concentration c Soil Indicator tosol (A1) tic Epipedon (A2) ck Histic (A3) drogen Sulfide (A4) atified Layers (A5) oleted Below Dark S ck Dark Surface (A1	% 100 95 , D=Dep rs:	Rec Color (Moist) 7.5YR 4/4 Ietion, RM=Redu Poly Thir Loa Loa V Dep Rec Dep	yvalue Beldin Dark Suring Mucky Imy Gleyed Dark Soleted Dark Soleted Dark	Type 1 C C Exx, CS=Co Exx Surface Face (S9) (I Mineral (F2 IX (F3) IX (F3) IX (F3) IX (F3) IX (F4) IX (F4) IX (F4) IX (F4)	PL overed Sa (S8) (LRR LRR R, ML 1) (LRR K, 2)	Texture SILT LOAM SANDY LOAM and or Coated Sal R, MLRA 149B) RA 149B)	nd Grains. Indicat 2 cm Coas 5 cm Dark Polyv Thin Iron-I	² Loc ors for I Muck (A10 at: Prairie R Mucky Per Surface (So value Below Dark Surfa Manganese	Remarks Cation: PL=Pore L Problematic Hy 0) (LRR K, L, MLRA Redox (A16) (LRR K, at or Peat (S3) (LRR 87) (LRR K, L, M) w Surface (S8) (LRR ace (S9) (LRR K, L) e Masses (F12) (LRR	ining, M=Matrix. /dric Soils 149B) L, R) R K, L, R) K, L)
☐ Stripped Matrix (S6) ☐ Red Parent Material (F21) ☐ Dark Surface (S7) (LRR R, MLRA 149B) ☐ Very Shallow Dark Surface (TF12) ☐ Other (Explain in Remarks)	Profile Depth (in.) 0-10 10-16 1 Type: Hydrid His His Bla Hydrid Stra Dep Thic	Matrix Color (Moist) 7.5YR 3/1 7.5YR 4/2 C=Concentration c Soil Indicator tosol (A1) tic Epipedon (A2) ck Histic (A3) drogen Sulfide (A4) atified Layers (A5) oleted Below Dark S ck Dark Surface (A1 dy Mucky Mineral (8	% 100 95 , D=Dep rs:	Rec Color (Moist) 7.5YR 4/4 letion, RM=Redu Poly Thir Loa Loa Dep Rec Rec	yvalue Belom Dark Surfuced Matri	Type 1 C X, CS=Co W Surface Face (S9) (i Mineral (F2 ix (F3) urface (F6) Surface (F8)	PL overed Sa (S8) (LRR LRR R, ML 1) (LRR K, 2)) F7)	Texture SILT LOAM SANDY LOAM and or Coated Sal R, MLRA 149B) RA 149B)	nd Grains. Indicat 2 cm Coas 5 cm Dark Polyv Thin Iron-I	² Loc ors for I Muck (A10 at: Prairie R Mucky Per Surface (So value Below Dark Surfa Manganese	Remarks Cation: PL=Pore L Problematic Hy 0) (LRR K, L, MLRA Redox (A16) (LRR K, at or Peat (S3) (LRR 87) (LRR K, L, M) w Surface (S8) (LRR ace (S9) (LRR K, L) e Masses (F12) (LRR	ining, M=Matrix. /dric Soils 149B) L, R) R K, L, R) K, L)
□ Dark Surface (S7) (LRR R, MLRA 149B) □ Other (Explain in Remarks)	Profile Depth (in.) 0-10 10-16 1 Type: Hydrid His Bla Hyd Stra Depth Thic Sar	Matrix Color (Moist) 7.5YR 3/1 7.5YR 4/2 C=Concentration c Soil Indicator tosol (A1) tic Epipedon (A2) ck Histic (A3) drogen Sulfide (A4) atified Layers (A5) bleted Below Dark S ck Dark Surface (A1 ady Mucky Mineral (S ady Gleyed Matrix (S	% 100 95 , D=Dep rs:	Rec Color (Moist) 7.5YR 4/4 letion, RM=Redu Poly Thir Loa Loa Dep Rec Rec	yvalue Belom Dark Surfuced Matri	Type 1 C X, CS=Co W Surface Face (S9) (i Mineral (F2 ix (F3) urface (F6) Surface (F8)	PL overed Sa (S8) (LRR LRR R, ML 1) (LRR K, 2)) F7)	Texture SILT LOAM SANDY LOAM and or Coated Sal R, MLRA 149B) RA 149B)	nd Grains. Indicat 2 cm Coas 5 cm Polyo Thin Iron-I	² Loc Ors for I Muck (A10 tt: Prairie R Mucky Per Surface (S value Below Dark Surfa Manganese mont Flood	Remarks Cation: PL=Pore L Problematic Hy 0) (LRR K, L, MLRA Redox (A16) (LRR K, at or Peat (S3) (LRR G7) (LRR K, L, M) w Surface (S8) (LRR ace (S9) (LRR K, L) e Masses (F12) (LRR dplain Soils (F19) (Ml	ining, M=Matrix. /dric Soils 149B) L, R) R K, L, R) K K, L, R) R K, L, R) LRA 149B)
Other (Explain in Remarks)	Profile Depth (in.) 0-10 10-16 1 Type: Hydrid His Bla Hydrid Stra Depth Sar Sar	Matrix Color (Moist) 7.5YR 3/1 7.5YR 3/1 7.5YR 4/2 C=Concentration c Soil Indicator tosol (A1) tic Epipedon (A2) ck Histic (A3) drogen Sulfide (A4) atified Layers (A5) bleted Below Dark S ck Dark Surface (A1 ady Mucky Mineral (S ady Gleyed Matrix (S ady Redox (S5)	% 100 95 , D=Dep rs:	Rec Color (Moist) 7.5YR 4/4 letion, RM=Redu Poly Thir Loa Loa Dep Rec Rec	yvalue Belom Dark Surfuced Matri	Type 1 C X, CS=Co W Surface Face (S9) (i Mineral (F2 ix (F3) urface (F6) Surface (F8)	PL overed Sa (S8) (LRR LRR R, ML 1) (LRR K, 2)) F7)	Texture SILT LOAM SANDY LOAM and or Coated Sal R, MLRA 149B) RA 149B)	nd Grains. Indicat 2 cm Coas 5 cm Dark Polyv Thin Iron-I Piedr Mesi	² Loc ors for I Muck (A10 tt: Prairie R Mucky Pe: Surface (S value Belov Dark Surfa Manganese mont Flood c Spodic (T	Remarks Cation: PL=Pore L Problematic Hy O) (LRR K, L, MLRA Redox (A16) (LRR K, at or Peat (S3) (LRR S7) (LRR K, L, M) W Surface (S8) (LRR ace (S9) (LRR K, L) e Masses (F12) (LRF dplain Soils (F19) (MI TA6) (MLRA 144A, 1	ining, M=Matrix. /dric Soils 149B) L, R) R K, L, R) K K, L, R) R K, L, R) LRA 149B)
_	Profile Depth (in.) 0-10 10-16 Type: Hydric His Bla Hyd Stra Dep Thic Sar Sar Stra	Matrix Color (Moist) 7.5YR 3/1 7.5YR 4/2 C=Concentration C Soil Indicator tosol (A1) tic Epipedon (A2) ck Histic (A3) drogen Sulfide (A4) atified Layers (A5) oleted Below Dark S ck Dark Surface (A1 ady Mucky Mineral (S ady Gleyed Matrix (S ady Redox (S5) pped Matrix (S6)	% 100 95 , D=Dep rs: urface (A ²) 61) 4)	Rec Color (Moist) 7.5YR 4/4 Ietion, RM=Redu Poly Thir Loa Loa V Dep Rec Dep Rec Coth	yvalue Belom Dark Surfuced Matri	Type 1 C X, CS=Co W Surface Face (S9) (i Mineral (F2 ix (F3) urface (F6) Surface (F8)	PL overed Sa (S8) (LRR LRR R, ML 1) (LRR K, 2)) F7)	Texture SILT LOAM SANDY LOAM and or Coated Sal R, MLRA 149B) RA 149B)	nd Grains. Indicat 2 cm Coas 5 cm Dark Polyv Thin Iron-I Piedr Mesie	² Loc ors for I Muck (A10 at: Prairie R Mucky Per Surface (So value Below Dark Surfa Manganese mont Flood c Spodic (1 Parent Mat	Remarks Cation: PL=Pore L Problematic Hy O) (LRR K, L, MLRA Redox (A16) (LRR K, at or Peat (S3) (LRR S7) (LRR K, L, M) W Surface (S8) (LRR ace (S9) (LRR K, L) e Masses (F12) (LRF dplain Soils (F19) (MI TA6) (MLRA 144A, 1 terial (F21)	ining, M=Matrix. /dric Soils 149B) L, R) R K, L, R) K K, L, R) R K, L, R) LRA 149B)
	Profile Depth (in.) 0-10 10-16 Type: Hydric His Bla Hyd Stra Dep Thic Sar Sar Stra	Matrix Color (Moist) 7.5YR 3/1 7.5YR 4/2 C=Concentration C Soil Indicator tosol (A1) tic Epipedon (A2) ck Histic (A3) drogen Sulfide (A4) atified Layers (A5) oleted Below Dark S ck Dark Surface (A1 ady Mucky Mineral (S ady Gleyed Matrix (S ady Redox (S5) pped Matrix (S6)	% 100 95 , D=Dep rs: urface (A ²) 61) 4)	Rec Color (Moist) 7.5YR 4/4 Ietion, RM=Redu Poly Thir Loa Loa V Dep Rec Dep Rec Coth	yvalue Belom Dark Surfuced Matri	Type 1 C X, CS=Co W Surface Face (S9) (i Mineral (F2 ix (F3) urface (F6) Surface (F8)	PL overed Sa (S8) (LRR LRR R, ML 1) (LRR K, 2)) F7)	Texture SILT LOAM SANDY LOAM and or Coated Sal R, MLRA 149B) RA 149B)	nd Grains. Indicat 2 cm Coas 5 cm Polyo Thin Iron-I Piedr Mesic Red Very	² Loc ors for I Muck (A10 at: Prairie R Mucky Per Surface (S value Below Dark Surfa Manganese mont Flood c Spodic (1 Parent Mat Shallow Da	Remarks Cation: PL=Pore L Problematic Hy O) (LRR K, L, MLRA Redox (A16) (LRR K, at or Peat (S3) (LRR S7) (LRR K, L, M) W Surface (S8) (LRR dace (S9) (LRR K, L) e Masses (F12) (LRF dplain Soils (F19) (MI FA6) (MLRA 144A, 1) terial (F21) ark Surface (TF12)	ining, M=Matrix. /dric Soils 149B) L, R) R K, L, R) K K, L, R) R K, L, R) LRA 149B)

Restrictive Layer Present (if present):	
Туре:	Hydric Soil Present? ✓ Yes ☐ No
Depth (inches):	Tryunc 3011 Fresent: 🖭 Tes 🗀 No
Remarks:	



DE1AW374_050214_WET1W.jpg Photo Name: Note: DE-1A-W374-WET1

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, 1	Township, Range: Franklin
Landform: sideslope Local Relief:	Concave Convex None Slope (%): 2
Subregion: Middle Atlantic Latitude: 42.383414 Lor	ngitude: -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 n	needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sampling point	locations, transects, important features, etc.
Hydrophytic Vegetation Present? ☐ Yes ✓ No Is the Sampled Area	
Hydric Soil Present?	□ Yes 🗹 No
Wetland Hydrology Present? ☐ Yes ✓ No	
Remarks: Upland plot	
Field Wetland Classification:	
HYDROLOGY	
Wetland Hydrology Indicators	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1) Water Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) Marl Deposits (B15)	Drainage Patterns (B10)
	Moss Trim Lines (B16)
Water Marks (B1) Hydrogen Sumde Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3)	☐ Dry-Season Water Table (C2) ☐ Crayfish Burrows (C8)
Drift Deposits (B3) Presence of Reduced Iron (C4)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6)	Stunted or Stressed Plants (D1)
☐ Iron Deposits (B5) ☐ Thick Muck Surface (C7)	Geomorphic Position (D2)
☐ Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks)	Shallow Aquitard (D3)
Sparsely Vegetated Concave Surface (B8)	Microtopographic Relief (D4)
	FAC-Neutral Test (D5)
	Other (Explain in Remarks)
Field Observations:	
Surface Water Present: Yes No Depth (inches):	
Water Table Present:	Wetland Hydrology Present? ☐ Yes ✔ No
	, , , , , , , , , , , , , , , , , , , ,
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection	ons), if available:
Remarks:	

% Cover		
% Cover		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Dominant	Indicator
80	YES	FACU
10	NO	FAC
er: 90	<u></u>	
% Cover	Dominant	Indicator
10	YES	FACU
er: 10		
% Cover	Dominant	Indicator
er:		
% Cover	Dominant	Indicator
er:		
% Cover	Dominant	Indicator
	10 % Cover 10 % Cover er: % Cover	% Cover Dominant 10 YES % Cover Dominant 10 YES % Cover Dominant er: % Cover Dominant

Number of Dominant Sp that are OBL, FACW, or Total Number of Dominant Species Across All Stra Percent of Dominant Sp are OBL, FACW, or FAC Hydrophytic Vege ☐ 1 - Rapid Test for Hy ☐ 2 - Dominance Test if ☐ 3 - Prevalance is ≤ 3 ☐ 4 - Morphological Addata in Remarks or collaboration Problematic Hydroph Indicators of hydric so unless disturbed or problemarks:	ecies r FAC: ant ta: becies tha C: etation I drophytic is > 50% .0 aptations on a separ hytic Vege iil and wet	d (A) 2 (B) t 0 (A) ndicators: Vegetation (Provide supportate sheet) etation¹ (Explain)	(B)	sent	Total % OBL S FACW FAC S FACU UPL S Colum	alence Index Wo 6 Cover of: pecies: Species: Species: pecies: prevalence prevalence	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
SOIL								
Profile Description: Depth Matrix	(Descrii	ī	n needed lox Featur		ument	the indicator or c	onfirm the absence of indicators.)	
(in.) Color (Moist)	%	Color (Moist)	1	Type ¹	Loc ²	Texture	Remarks	
0-4 10YR 2/1	100					SANDY LOAM		
4-15 SYR 4/4	100					FINE SANDY LOAM		
1 [l .	ļ J			TINE SANDT LOAN		
¹ Type: C=Concentratio	n, D=Dep	etion, RM=Redu	ced Matrix	, CS=Co	overed Sa		Grains. ² Location: PL=Pore Lining, M=Ma	trix.
¹ Type: C=Concentratio Hydric Soil Indicate	<u> </u>	letion, RM=Redu	ced Matrix	, CS=Co	overed Sa		Grains. ² Location: PL=Pore Lining, M=Mar Indicators for Problematic Hydric Soils	

Restrictive Layer Present (if present):	
Туре:	Hydric Soil Present? ☐ Yes ☑ No
Depth (inches):	Hydric Soil Present? ☐ Yes ☑ No
Remarks:	,



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

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: Frankl	in	Section	n, Township, Range: Sidney
Landform: Drainageway		Loc	cal Relief:	✓ Concave ☐ Convex ☐ None Slope (%): 1
Subregion: Middle Atlantic	Latitu	de: 42.35369	90	Longitude: -75.20527 Datum: NAD 1983
Soil Map Unit Name: Wellsbord	channery silt loam, 3 to 8	percent slopes		NWI Classification: Not mapped
Are climatic/hydrologic conditions	on the site typical for this ti	me 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 H	Hydrology naturally pro	blematic?	• No	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDING	S - Attach site map	showing sar	npling po	oint locations, transects, important features, etc.
Hydrophytic Vegetation Present?	Yes No	Is the Sar	mpled A	702
Hydric Soil Present?	✓ Yes	within a \		
Wetland Hydrology Present?	✓ Yes No			
Remarks:				
Field Wetland Classification: PF	:0			
HYDROLOGY				
Wetland Hydrology Indicate	ors			
Primary Indicators (minimum of one is				Secondary Indicators (minimum of two required)
Surface Water (A1)	✓ Water Stain			Surface Soil Cracks (B6)
High Water Table (A2)	Aquatic Fau			✓ Drainage Patterns (B10)
Saturation (A3)	Marl Deposi	ulfide Odor (C1)		Moss Trim Lines (B16)
Water Marks (B1)		izospheres on Li	vina Roots (Dry-Season Water Table (C2)
Sediment Deposits (B2)		Reduced Iron (C		Orayiish Barrows (00)
Drift Deposits (B3) Algal Mat or Crust (B4)		Reduction in Tille	•	Saturation Visible on Aerial Imagery (C9)
Iron Deposits (B5)		Surface (C7)	•	Stunted or Stressed Plants (D1)
Inundation Visible on Aerial Imag	ery (B7) Other (Expla	ain in Remarks)		Geomorphic Position (D2)
Sparsely Vegetated Concave Sur	• • •			Shallow Aquitard (D3)
	,			Microtopographic Relief (D4)
				FAC-Neutral Test (D5)
				Other (Explain in Remarks)
Field Observations:				
Surface Water Present:	☐ Yes 🔽 No Depth (i	nches):		
Water Table Present:	Yes 🗸 No Depth (i	nches):		
Saturation Present:	Yes No Depth (i	nches): 0		Wetland Hydrology Present? ✓ Yes No
Describe Recorded Data (stream	gauge, monitoring well, ae	rial photos, pre	evious insp	ections), if available:
Remarks:				

VEGETATION				
Tree Stratum				
Plot Size:	30 feet			
Scientific Name		% Cover	Dominant	Indicator
Acer rubrum		40	YES	FAC
Betula lenta		10	YES	FACU
	Total Cover	50		
Sapling Stratum				
Plot Size:	15 feet			
Scientific Name		% Cover	Dominant	Indicator
Betula lenta		3	YES	FACU
	Total Cover	3		
Shrub Stratum				
Plot Size:	15 feet			
Scientific Name		% Cover	Dominant	Indicator
	Total Cover			
Herb Stratum		1	1	
Plot Size:	5 feet	0/ 0	D 1	In all a second
Scientific Name		% Cover	Dominant	Indicator
Carex crinita		45	YES	OBL
Solidago rugos	ra e	8	NO	FAC
Carex sp		30	YES	FACW
Impatiens cape	ensis	10	NO	FACW
	Total Cover	93	1	
Vine Stratum				
Plot Size:	30 feet			
Scientific Name		% Cover	Dominant	Indicator
	Total Cover	<u> </u>		
	Total Gover			

Hydro Hydro 1 - R 2 - D 4 - M data Prob	nance Test Wo r of Dominant Speci OBL, FACW, or FA umber of Dominant s Across All Strata: of Dominant Speci _, FACW, or FAC: ophytic Vegetat apid Test for Hydro ominance Test is > revalance is ≤ 3.0 lorphological Adapta in Remarks or on a elematic Hydrophytic tors of hydric soil ar disturbed or proble	es that cion Indi phytic Veg 50% ations¹ (Pr separate c Vegetation d wetland	3 (A) 5 (B) 60 (A/I icators: getation rovide support sheet) ion¹ (Explain)	B) ting	esent	Total 9 OBL S FACW FAC S FACU UPL S Colum	alence Index W 6 Cover of: pecies: Species: pecies: pecies: n Totals: Prevalence	45 40 48 13 0 146 ce Index =	x 1 = x 2 = x 3 = x 4 = x 5 = (A) B/A =	45 80 144 52 0 321 2.20 ✓ Yes	- - - - (B)
SOIL Profile	Description: (Description)	escribe t	_			cument :	the indicator or o	confirm t	the abse	ence of indicat	ors.)
Depth (in.)	Matrix Color (Moist)	% Co	Red olor (Moist)	ox Featu %	Type 1	Loc ²	Texture			Remarks	
0-8	, ,	100			71	None	FINE SANDY LOAM				
8-16	10YR 4/2	90 10	YR 3/4	10	С	М	FINE SANDY LOAM				
¹ Type:	C=Concentration, D	D=Depletio	on, RM=Reduc	ced Matri	x, CS=Co	overed Sa	and or Coated Sand	Grains.	² Loc	cation: PL=Pore L	ining, M=Matrix.
	c Soil Indicators								ors for	Problematic H	ydric Soils
Hiss Hiss Bla Hyce Stra Dep Thin Sar Sar Stri Dar	tosol (A1) tic Epipedon (A2) ck Histic (A3) drogen Sulfide (A4) atified Layers (A5) oleted Below Dark Surfick Dark Surface (A12) ddy Mucky Mineral (S1) ddy Gleyed Matrix (S4) ddy Redox (S5) pped Matrix (S6) k Surface (S7) (LRR R) R, MLRA 148	☐ Thin☐ Loar☐ Loar☐ Pepl☐ Redd☐ Othe	Dark Surfa my Mucky I my Gleyed leted Matriz ox Dark Su leted Dark ox Depress er (Explain	ace (S9) (L Mineral (F1 Matrix (F2) x (F3) urface (F6) Surface (F sions (F8) in Remark	LRR R, ML 1) (LRR K,) 	L)	Coas 5 cm Dark Poly Thin Iron- Pied Mesi Red Very	st: Prairie F Mucky Pe Surface (S value Belov Dark Surfa Manganese mont Flood c Spodic (T Parent Mat Shallow D	0) (LRR K, L, MLRA Redox (A16) (LRR K eat or Peat (S3) (LRF S7) (LRR K, L, M) w Surface (S8) (LRF ace (S9) (LRR K, L) e Masses (F12) (LR dplain Soils (F19) (M TA6) (MLRA 144A, A terial (F21) eark Surface (TF12) in Remarks)	R K, L, R) R K, L, R) R K, L, R) R K, L, R) LRA 149B)

Restrictive Layer Present (if present):	
Туре:	Hydric Soil Present? ✓ Yes ☐ No
Depth (inches):	nyunc son Fresent: • Tes - No
Remarks:	



DE1AW463_052014_WET1S.jpg Photo Name: Note: DE-1A-W463-WET1

Project/Site Constitution	Milepost 63.84682	City/County: Delawar	re Sampling Date: 2014/05/20
Applicant/Owner: Williams		State: NY	Sampling Point: DE-1A-W467-WET1
Investigator(s): PL, RR	USGS Quad: Frank	klin Sect	ion, Township, Range: Sidney
Landform: Drainageway		Local Relief:	Concave Convex None Slope (%):
Subregion: Middle Atlantic	Latit	tude: 42.354288	Longitude: -75.20456 Datum: NAD 1983
Soil Map Unit Name: Volusia ch	nannery silt loam, 3 to 8 pe	ercent 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 I	Hydrology significantly	y disturbed? 🔽 No	Are "Normal Circumstances" present? ✓ Yes ☐ No
Are Vegetation Soil or F	Hydrology 🔲 naturally pr	roblematic? 🔽 No	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDING	S - Attach site map	showing sampling p	oint locations, transects, important features, etc.
Hydrophytic Vegetation Present?	✓ Yes	la 11 a O la 1	
Hydric Soil Present?	✓ Yes No	Is the Sampled A	
Wetland Hydrology Present?	✓ Yes No	within a wetiant	1 :
Remarks:			
Field Wetland Classification: PF	Ю		
HYDROLOGY			
Wetland Hydrology Indicato	ors		
Primary Indicators (minimum of one is	required; check all that apply)	1	Secondary Indicators (minimum of two required)
Surface Water (A1)	✓ Water Stai	ned Leaves (B9)	Surface Soil Cracks (B6)
✓ High Water Table (A2)	☐ Aquatic Fa	, ,	✓ Drainage Patterns (B10)
✓ Saturation (A3)	Marl Depos		Moss Trim Lines (B16)
Water Marks (B1)		Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2)		Chizospheres on Living Roots	(C3) Crayfish Burrows (C8)
Drift Deposits (B3)		of Reduced Iron (C4) n Reduction in Tilled Soils (C	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		k Surface (C7)	Stunted or Stressed Plants (D1)
☐ Iron Deposits (B5)			Geomorphic Position (D2)
Inundation Visible on Aerial Image	o., (2.)	lain in Remarks)	Shallow Aquitard (D3)
Sparsely Vegetated Concave Sur	Tace (B8)		Microtopographic Relief (D4)
			FAC-Neutral Test (D5)
			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, a	erial photos, previous ins	pections), if available:
Remarks:			

Tree Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
Acer rubrum		60	YES	FAC
Pinus strobus		10	YES	FACU
Pirius stropus		10	TES	FACU
	Total Cover:	70		
Sapling Stratum				
Plot Size: 15 feet				
Scientific Name		% Cover	Dominant	Indicator
Carpinus caroliniana		15	YES	FAC
Betula lenta		5	YES	FACU
	Total Cover:	20		
Shrub Stratum				
Plot Size: 15 feet		1		1
Scientific Name		% Cover	Dominant	Indicator
Spiraea alba		8	YES	FACW
	Total Cover:	8		1
Herb Stratum				
Plot Size: 530 feet				
Scientific Name		% Cover	Dominant	Indicator
Onoclea sensibilis		18	YES	FACW
Solidago sp		8	NO	FAC
Rubus hispidus		10	NO	FACW
Glyceria sp		40	YES	FACW
	Total Cover:	76		
Vine Stratum				
Plot Size: feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			

that are Total N Species Percent	nance Test Worksh r of Dominant Species OBL, FACW, or FAC: umber of Dominant s Across All Strata: t of Dominant Species th L, FACW, or FAC:	5_(A 7_(B)		Total 9 OBL S FACW FAC S FACU UPL S	alence Index W 6 Cover of: pecies: pecies: pecies: pecies: pecies: pecies: pecies: pecies:		1tiply by: 0 152 249 60 0 461 2.65
1 - R 2 - D 3 - P 4 - N data Prob	aphytic Vegetation apid Test for Hydrophytic cominance Test is > 50% revalance is ≤ 3.0 dorphological Adaptations in Remarks or on a sepanter of hydric soil and we disturbed or problematic	c Vegetation s¹ (Provide supportrate sheet) etation¹ (Explain) ttland hydrology n	J	resent	Hydro	ophytic Vegetat	ion Present?	✓ Yes □ No
Remark	s:							
SOIL	Description: (Descr	ihe to the dent	h neede	d to do	rument	the indicator or o	onfirm the abse	ance of indicators)
Profile	Description: (Descr	_			cument	the indicator or c	confirm the abse	ence of indicators.)
	Description: (Descr Matrix Color (Moist) %	_	h neede dox Featu		Loc ²	the indicator or o	onfirm the abse	ence of indicators.)
Profile Depth	Matrix	Red	dox Featu	ıres	1		2.5Y 3/4 10% C	Remarks
Profile Depth (in.)	Matrix Color (Moist) % 2.5Y 3/2	Rec Color (Moist)	dox Featu %	Type ¹	Loc² None	Texture FINE SANDY LOAM		Remarks
Profile Depth (in.) 0-2 2-14	Matrix Color (Moist) % 2.5Y 3/2	Color (Moist) 2.5Y 3/3	% 10	Type ¹	Loc² None	Texture FINE SANDY LOAM FINE SANDY LOAM	2.5Y 3/4 10% C	Remarks
Profile Depth (in.) 0-2 2-14	Matrix Color (Moist) % 2.5Y 3/2 2.5Y 4/1 80	Color (Moist) 2.5Y 3/3	% 10	Type ¹	Loc² None	Texture FINE SANDY LOAM FINE SANDY LOAM	2.5Y 3/4 10% C Grains. ² Loc	Remarks

Restrictive Layer Present (if present):	
Туре:	Hydric Soil Present? ✓ Yes ☐ No
Depth (inches):	Hydric Soil Present? ✓ Yes ☐ No
Remarks:	



DE1AW467_052014_WET1W.jpg Photo Name: Note: DE-1A-W467-WET1

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: Frankl	in	Section	n, Township, Range: Sidney
Landform: Drainage		Lo	cal Relief:	✓ Concave ☐ Convex ☐ None Slope (%): 1
Subregion: Middle Atlantic	Latitu	de: 42.3538	18	Longitude: -75.20373 Datum: NAD 1983
Soil Map Unit Name: Mardin cha	annery silt loam, 3 to 8 per	cent slopes		NWI Classification: Not mapped
Are climatic/hydrologic conditions of	on the site typical for this ti	me of year?	✓ Yes	☐ No (If no, explain in Remarks.)
Are Vegetation ☐ Soil ☐ or F	lydrology significantly	disturbed?	No	Are "Normal Circumstances" present? ✓ Yes ☐ No
Are Vegetation Soil or H	ydrology	blematic?	No	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDING	S - Attach site man		_	int locations, transects, important features, etc.
Hydrophytic Vegetation Present?	Yes No	Silowing Sai	iipiiiig po	mic locations, transects, important leatures, etc.
Hydric Soil Present?	✓ Yes No	Is the Sai	-	No.
j	_ _	within a \	Netland	y Yes □ No
Wetland Hydrology Present?	✓ Yes No			
Remarks:				
Field Walland Olera Startian DEN				
Field Wetland Classification: PEI	ΛΙ 			
HYDROLOGY				
Wetland Hydrology Indicato	rs			
Primary Indicators (minimum of one is	equired; check all that apply)			Secondary Indicators (minimum of two required)
Surface Water (A1)		ed Leaves (B9)		Surface Soil Cracks (B6)
High Water Table (A2)	Aquatic Fau			✓ Drainage Patterns (B10)
Saturation (A3)	Marl Deposi			Moss Trim Lines (B16)
☐ Water Marks (B1)		ulfide Odor (C1) izospheres on Li	vina Poote ((Dry-Season Water Table (C2)
Sediment Deposits (B2)		Reduced Iron (C	- '	Orayiisii Bairows (00)
Drift Deposits (B3)		Reduction in Tille	-	Saturation Visible on Aerial Imagery (C9)
☐ Algal Mat or Crust (B4)☐ Iron Deposits (B5)		Surface (C7)	04 000 (00)	Stunted or Stressed Plants (D1)
Inundation Visible on Aerial Image		ain in Remarks)		Geomorphic Position (D2)
Sparsely Vegetated Concave Surfa	.,(5.)	,		Shallow Aquitard (D3)
oparocity regulated contexts care	200 (20)			Microtopographic Relief (D4)
				FAC-Neutral Test (D5)
				Other (Explain in Remarks)
Field Observations:				
Surface Water Present:	Yes V No Depth (i	nches):		
Water Table Present:	Yes V No Depth (i	nches):		
Saturation Present:	Yes No Depth (i	nches): 0		Wetland Hydrology Present? ✓ Yes No
Describe Recorded Data (stream	gauge, monitoring well, ae	rial photos, pre	evious inspe	ections), if available:
Remarks:				

TECETATION				
Tree Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
Acer rubrum		18	YES	FAC
	Total Cover:	18	I.	
Sapling Stratum				
Plot Size: 15 feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
Shrub Stratum				
Plot Size: 15 feet		1	1	
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
Herb Stratum				
Plot Size: 5 feet				
Scientific Name		% Cover	Dominant	Indicator
Carex crinita		25	YES	OBL
Viola sp		5	NO	FAC
Carex sp		30	YES	FAC
Juncus effusus		10	NO	OBL
Impatiens capensis		12	NO	FACW
Onoclea sensibilis		8	NO	FACW
	Total Cover:	90		
Vine Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			

that are Total N Species Percen	nance Test W r of Dominant Spe OBL, FACW, or I umber of Dominant s Across All Strata t of Dominant Spe L, FACW, or FAC:	ecies FAC: nt i: ecies tha	3 (A))		Total S OBL S FACW FAC S FACU UPL S	alence Index W 6 Cover of: pecies: pecies: pecies: species: pecies: pecies: pecies:		1tiply by: 35
1 - F	pphytic Vegeta tapid Test for Hydrominance Test is revalance is ≤ 3.0 forphological Adap in Remarks or on blematic Hydrophy tors of hydric soil disturbed or prob	rophytic > 50% ptations a separ tic Vege and wet	Vegetation ' (Provide supportate sheet) etation¹ (Explain)	Ü	esent	Hydro	ophytic Vegetat		✓ Yes □ No
SOIL		D							
Prome	Description: (tha indiaatar ar t	aantium tha ahaa	man of indicators \
Donth	Matrix	Descri	1			cument	the indicator or o	confirm the abse	ence of indicators.)
Depth (in.)	Matrix Color (Moist)	%	1	n neede dox Featu %		Loc ²	the indicator or o	confirm the abse	ence of indicators.) Remarks
_			Red	dox Featu	ıres	1		confirm the abse	
(in.)	Color (Moist)	%	Red Color (Moist)	dox Featu %	Type 1	Loc ²	Texture	confirm the abse	
(in.) 0-5 5-15	2.5Y 3/2 2.5Y 4/2	% 90 80	Rec Color (Moist) 2.5Y 4/3 2.5Y 3/3	% 10	Type 1 C C	Loc² M	Texture FINE SANDY LOAM FINE SANDY LOAM		Remarks
(in.) 0-5 5-15	2.5Y 3/2 2.5Y 4/2	% 90 80 D=Dep	Rec Color (Moist) 2.5Y 4/3 2.5Y 3/3	% 10	Type 1 C C	Loc² M	Texture FINE SANDY LOAM	Grains. ² Loc	

Restrictive Layer Present (if present):	
Туре:	Hydric Soil Present? ✓ Yes ☐ No
Depth (inches):	Hydric Soil Present? ✓ Yes ☐ No
Remarks:	



DE1AW468_052014_WET1E.jpg Photo Name: Note: DE-1A-W468-WET1

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, T	Township, Range: Sidney
Landform: Side slope Local Relief:	Concave ☐ Convex ☑ None Slope (%): 1
Subregion: Middle Atlantic Latitude: 42.354034 Lor	ngitude: -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 n	needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sampling point	t locations, transects, important features, etc.
Hydrophytic Vegetation Present? ☐ Yes ✓ No	•
Hydric Soil Present?	☐ Yes ☑ No
Wetland Hydrology Present?	
Remarks: Upland	
Field Wetland Classification:	
HYDROLOGY	
Wetland Hydrology Indicators	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1) Water Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) Marl Deposits (B15)	Drainage Patterns (B10)
	Moss Trim Lines (B16)
Opidinal Phinashana and Living Parks (00)	Dry-Season Water Table (C2)
Processes of Paduced Iron (C4)	Crayfish Burrows (C8)
☐ Drift Deposits (B3) ☐ Algal Mat or Crust (B4) ☐ Recent Iron Reduction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)
☐ Iron Deposits (B5) ☐ Thick Muck Surface (C7)	Stunted or Stressed Plants (D1)
☐ Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks)	Geomorphic Position (D2)
Sparsely Vegetated Concave Surface (B8)	Shallow Aquitard (D3)
	Microtopographic Relief (D4)
	FAC-Neutral Test (D5)
	Other (Explain in Remarks)
Field Observations:	
Surface Water Present: Yes V No Depth (inches):	
Water Table Present: ☐ Yes ✓ No Depth (inches):	
Saturation Present: Yes V No Depth (inches):	Wetland Hydrology Present? ☐ Yes ✓ No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection	ons), if available:
Remarks:	

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

Hydro Hydro 1 - R 2 - D 3 - P 4 - M data Prote Indica	nance Test Wo r of Dominant Speci OBL, FACW, or FA umber of Dominant Across All Strata: of Dominant Speci phytic Vegetat apid Test for Hydro rominance Test is > revalance is ≤ 3.0 dorphological Adapt in Remarks or on a elematic Hydrophytic tors of hydric soil ar disturbed or proble	tion In ophytic tations a separa c Vege nd wetl	0 (A) 4 (B) 0 (A) ndicators: Vegetation (Provide supporate sheet) tation¹ (Explain)	B)	esent	Total 9 OBL S FACW FAC S FACU UPL S Colum	alence Index Wo	Multiply by: 0	0 0 524 0 524 4.00 (B)
SOIL									
Profile	Description: (D	escrib	e to the deptl	neede	d to doo	ument	the indicator or co	onfirm the absence of i	indicators.)
Profile Depth	Description: (D	escrib	_	n neede lox Featu		ument	the indicator or co	onfirm the absence of i	indicators.)
		escrib %	_			Loc ²	the indicator or co		indicators.)
Depth	Matrix Color (Moist)		Rec	lox Featu	ires	T			-
Depth (in.) 0-8	Matrix Color (Moist) 10YR 2/2	% 100	Rec	lox Featu	ires	Loc² None	Texture FINE SANDY LOAM	Ren	-
Depth (in.) 0-8 8-14	Matrix Color (Moist) 10YR 2/2 10YR 3/4	% 100 100	Rec Color (Moist)	lox Featu %	Type ¹	Loc² None None	Texture FINE SANDY LOAM	Ren Auger refusal at 14"	-
Depth (in.) 0-8 8-14	Matrix Color (Moist) 10YR 2/2 10YR 3/4	% 100 100 D=Depl	Rec Color (Moist)	lox Featu %	Type ¹	Loc² None None	Texture FINE SANDY LOAM FINE SANDY LOAM	Ren Auger refusal at 14"	marks =Pore Lining, M=Matrix.

Restrictive Layer Present (if present):			
Туре:	Hydric Soil Present?	☐ Yes	✓ No
Depth (inches):	Tryunc 3011 Fresent:	□ 1 6 5	™ NO
Remarks:			



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

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: Frankl	in	Section	on, Township, Range: Sidney
Landform: Depression		Lo	cal Relief:	✓ Concave ☐ Convex ☐ None Slope (%): 0
Subregion: Middle Atlantic	Latitu	de: 42.35402	21	Longitude: -75.20320 Datum: NAD 1983
Soil Map Unit Name: Mardin cha	innery silt loam, 3 to 8 per	cent slopes		NWI Classification: Not mapped
Are climatic/hydrologic conditions of	on the site typical for this ti	me of year?	✓ Yes	☐ No (If no, explain in Remarks.)
Are Vegetation Soil or H	lydrology significantly	disturbed?	/ No	Are "Normal Circumstances" present? ✓ Yes ☐ No
Are Vegetation ☐ Soil ☐ or H	ydrology	blematic?	∕ No	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDING	S - Attach site man			oint locations, transects, important features, etc.
Hydrophytic Vegetation Present?	Yes No	Silowing sai	iipiiiig po	omit locations, transects, important leatures, etc.
Hydric Soil Present?	✓ Yes No	Is the Sa	-	I.Z. Vaa Na
,	✓ Yes No	within a \	Wetland [*]	?
Wetland Hydrology Present?	▼ 1 es			
Remarks:				
Field Wetland Classification: PF0)			
Ticia Welland Olassincation. Ti				
HYDROLOGY				
Wetland Hydrology Indicato				
Primary Indicators (minimum of one is r		(DO)		Secondary Indicators (minimum of two required)
Surface Water (A1)	✓ Water Stain☐ Aquatic Fau	ed Leaves (B9)		Surface Soil Cracks (B6)
High Water Table (A2)	Marl Deposi			Drainage Patterns (B10)
Saturation (A3)	_	ulfide Odor (C1)		Moss Trim Lines (B16)
Water Marks (B1)		izospheres on Li	vina Roots (Dry-Season Water Table (C2)
Sediment Deposits (B2)		Reduced Iron (C		Grayiish Barrows (00)
☐ Drift Deposits (B3) ☐ Algal Mat or Crust (B4)		Reduction in Till	-	Saturation Visible on Aerial Imagery (C9)
Iron Deposits (B5)	☐ Thick Muck	Surface (C7)		Stunted or Stressed Plants (D1)
Inundation Visible on Aerial Image	ov (B7) Other (Expla	nin in Remarks)		Geomorphic Position (D2)
Sparsely Vegetated Concave Surfa				Shallow Aquitard (D3)
	,			Microtopographic Relief (D4)
				FAC-Neutral Test (D5)
				Other (Explain in Remarks)
Field Observations:				
Surface Water Present:	Yes Vo Depth (i	•		
Water Table Present:	Yes V No Depth (i	nches):		
Saturation Present:	Yes No Depth (i	nches): 0		Wetland Hydrology Present? ✓ Yes □ No
Describe Recorded Data (stream g	gauge, monitoring well, ae	rial photos, pre	evious insp	ections), if available:
Remarks:				

Tree Stratum					
Plot Size: Scientific Name	5 feet		% Cover	Dominant	Indicator
Fagus grandifoli	a		65	YES	FACU
		Total Cover:	65	1	1
Sapling Stratum					
Plot Size: Scientific Name	5 feet		% Cover	Dominant	Indicator
		Total Cover:			
Shrub Stratum					
Plot Size: Scientific Name	5 feet		% Cover	Dominant	Indicator
		Total Cover:			
Herb Stratum					
Plot Size: Scientific Name	5 feet		% Cover	Dominant	Indicator
Impatiens caper	nsis		5	NA	FACW
Carex crinita			60	YES	OBL
Viola sp			20	YES	FAC
		Total Cover:	85	l	1
Vine Stratum					
Plot Size: Scientific Name	5 feet		% Cover	Dominant	Indicator
		Total Cover:			

that are Total Ni Species Percent are OBI	nance Test Worksh of Dominant Species OBL, FACW, or FAC: umber of Dominant Across All Strata: of Dominant Species tha FACW, or FAC:	2 (A) 3 (B) 67 (A/			Total % OBL S FACW FAC S FACU UPL S	Alence Index W 6 Cover of: pecies: pecies: pecies: Species: pecies: pecies: prevalence		10 60 10 60 260 0 390 (B)
1 - R 2 - D 3 - P 4 - N data Prob	apid Test for Hydrophytic ominance Test is > 50% revalance is ≤ 3.0 lorphological Adaptations in Remarks or on a sepalematic Hydrophytic Veg tors of hydric soil and we disturbed or problematic	' (Provide supportate sheet) etation' (Explain)	Ū	esent	Hydro	ophytic Vegetat	ion Present?	☑ Yes □ No
SOIL	s:							
			_					
	Description: (Descri	1			ument	the indicator or o	confirm the abs	ence of indicators.)
Profile Depth (in.)	Matrix Color (Moist) %	1	n neede ox Featu %		Loc ²	the indicator or o	confirm the abs	ence of indicators.) Remarks
Depth	Matrix	Red	ox Featu	ires	I		confirm the abs	·
Depth (in.)	Matrix Color (Moist) %	Red	ox Featu	ires	Loc ²	Texture	confirm the abs	·
Depth (in.) 0-5 5-14	Matrix Color (Moist) % 2.5Y 3/1	Red Color (Moist)	ox Featu % 8	Type ¹	Loc² None	Texture SILT LOAM FINE SANDY LOAM		·
Depth (in.) 0-5 5-14	Matrix Color (Moist) % 2.5Y 3/1 2.5Y 4/2 92	Red Color (Moist)	ox Featu % 8	Type ¹	Loc² None	Texture SILT LOAM FINE SANDY LOAM	Grains. ² Lo	Remarks

Restrictive Layer Present (if present):	
Туре:	Hydric Soil Present? ✓ Yes ☐ No
Depth (inches):	nyunc son Fresent?
Remarks:	



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

Project/Site Constitution Milepost 80.90426 City/Co	ounty: Delaware Sampling Date: 2014/05/21
Applicant/Owner: Williams S	State: Sampling Point: DE-1A-W472-WET1
Investigator(s): PL;KH USGS Quad: West Davenper	ort Section, Township, Range: Davenport
Landform: Depression	Local Relief: ✓ Concave ☐ Convex ☐ None Slope (%): 0
Subregion: Middle Atlantic Latitude: 42	2.428184 Longitude: -74.91310 Datum: NAD 1983
Soil Map Unit Name: Willowemoc channery silt loam, 3 to 8 percer	nt slopes NWI Classification: Not mapped
Are climatic/hydrologic conditions on the site typical for this time of year	ear? ✔ Yes
Are Vegetation $\ \ \ \ \ \ \ \ \ \ \ \ $ or Hydrology $\ \ \ \ \ \ \ \ \ \ \ $ significantly disturbed	ed? ✓ No Are "Normal Circumstances" present? ✓ Yes ☐ No
Are Vegetation ☐ Soil ✓ or Hydrology ☐ naturally problemati	c? No (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	ng sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? ✓ Yes ☐ No	ne Sampled Area
	in a Wetland?
Wetland Hydrology Present? ✓ Yes No	
Remarks:	
Field Wetland Classification: PFO	
HYDROLOGY	
Wetland Hydrology Indicators	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1) Water Stained Leave	
High Water Table (A2) High Water Table (A2) ✓ Saturation (A3) Marl Deposits (B15)	
	Moss Trim Lines (B16) Or (C1) Dr. Seesen Water Table (C2)
	or (C1)
☐ Drift Deposits (B2) ☐ Presence of Reduced	Grayiish Burlows (CO)
Algal Mat or Crust (B4) Recent Iron Reductio	
☐ Iron Deposits (B5) ☐ Thick Muck Surface ((C7) Geomorphic Position (D2)
☐ Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Rer	
Sparsely Vegetated Concave Surface (B8)	✓ Microtopographic Relief (D4)
	FAC-Neutral Test (D5)
	Other (Explain in Remarks)
Field Observations:	
Surface Water Present:	
Water Table Present:	0 Wetland Hydrology Present? ✓ Yes □ No
	3,
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspections), if available:
Remarks:	

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

Hydro Hydro 1 - F 2 - C 3 - F data Prote	nance Test Wo r of Dominant Spec OBL, FACW, or F umber of Dominant s Across All Strata: t of Dominant Spec L, FACW, or FAC: ophytic Vegeta tapid Test for Hydro tominance Test is some service and the service of the service of hydric soil a disturbed or proble s:	cies AC: t t cies that cies that tion Ir ophytic ' > 50% tations¹ a separa ic Veger and wetl	4 (A) 5 (B) 80 (A/ ndicators: Vegetation (Provide supporate sheet) tation¹ (Explain)	B) ting	esent	Total 9 OBL S FACW FAC S FACU UPL S Column	alence Index 6 Cover of: pecies: pecies: pecies: pecies: precies: precies: pecies: pecies: pecies: pecies: pecies: prevale	0 75 60 31 0 166 ence Index	x 1 = x 2 = x 3 = x 4 = x 5 = (A) = B/A =	0 150 180 124 0 454 2.73	(B)
SOIL Profile	Description: (D	Describ	pe to the deptl	n neede	d to doo	cument	the indicator o	r confirm	the abso	ence of indicat	ors.)
Depth	Matrix			lox Featu			<u> </u>				
(in.)	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²	Texture			Remarks	
0-8 8-15	7.5YR 3/3 5YR 4/3	95	7.5YR 5/2	5	С	М	FINE SANDY LOAN				
	C=Concentration,		etion, RM=Redu	ced Matri	x, CS=Co	overed Sa	and or Coated Sar	nd Grains.	² Lo	cation: PL=Pore L	ınıng, M=Matrix.
His	c Soil Indicators tosol (A1) tic Epipedon (A2)	 S:	Thir	Dark Surf	ace (S9) (I	LRR R, ML	•	2 c	m Muck (A1	Problematic H 0) (LRR K, L, MLRA Redox (A16) (LRR K	149B)
Hydelight Hydeli	ck Histic (A3) drogen Sulfide (A4) atified Layers (A5) oleted Below Dark Sur ck Dark Surface (A12) dry Mucky Mineral (S1 dry Gleyed Matrix (S4 dry Redox (S5) pped Matrix (S6) ck Surface (S7) (LRR I) 1)) R, MLRA	Dep 1) Red Dep Red Doth Oth	my Gleyed leted Matri ox Dark Si leted Dark ox Depress er (Explain	Matrix (F2 x (F3) urface (F6) Surface (F sions (F8) in Remark	-7) (ss)		Dal Pol Thi Iror Pie Me: Ver	k Surface (yvalue Belo n Dark Surfa h-Manganes dmont Floo sic Spodic (d Parent Ma y Shallow D	eat or Peat (S3) (LRF S7) (LRR K, L, M) w Surface (S8) (LRF ace (S9) (LRR K, L) se Masses (F12) (LR dplain Soils (F19) (M TA6) (MLRA 144A, 1 aterial (F21) Dark Surface (TF12) in Remarks)	R K, L, R) LRA 149B)

Restrictive Layer Present (if present):	
Туре:	Hydric Soil Present? ✓ Yes ☐ No
Depth (inches):	nyunc son Fresent: □ res □ No
Remarks:	



DE1AW472_052114_WET1SE.jpg Photo Name: Note: DE-1A-W472-WET1

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, 7	Township, Range: Davenport
Landform: Hillside Local Relief:	Concave Convex None Slope (%): 0
Subregion: Middle Atlantic Latitude: 42.428151 Lo	ongitude: -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 n	needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sampling point	t locations, transects, important features, etc.
Hydrophytic Vegetation Present? ☐ Yes ✓ No Is the Sampled Area	.
Hydric Soil Present? Yes V No within a Wetland?	□ Yes ☑ No
Wetland Hydrology Present? ☐ Yes ✓ No	
Remarks: Upland plot	
Field Wetland Classification:	
HYDROLOGY	
Wetland Hydrology Indicators	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1)	☐ Surface Soil Cracks (B6) ☐ Drainage Patterns (B10)
High Water Table (A2) Saturation (A3) Aquatic Fauna (B13) Marl Deposits (B15)	Moss Trim Lines (B16)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3)	Crayfish Burrows (C8)
Drift Deposits (B3) Presence of Reduced Iron (C4)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6)	Stunted or Stressed Plants (D1)
☐ Iron Deposits (B5) ☐ Thick Muck Surface (C7)	Geomorphic Position (D2)
☐ Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks)	Shallow Aquitard (D3)
Sparsely Vegetated Concave Surface (B8)	Microtopographic Relief (D4)
	FAC-Neutral Test (D5)
	Other (Explain in Remarks)
Field Observations:	
Surface Water Present: Yes No Depth (inches):	
Water Table Present:	Wetland Hydrology Present? ☐ Yes ✓ No
	, , , , , , , , , , , , , , , , , , , ,
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspecti-	ions), if available:
Remarks:	

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

pecies r FAC: ant ita: pecies tha	t)		Total 9 OBL S FACW FAC S FACU UPL S	Species: pecies: Species: pecies: n Totals:	0 x 1 = x 2 = x 3 = x 4 = 0 x 5 = 121 (A)	1tiply by: 0 0 150 284 0 434 (B) 3.59
rdrophytic is > 50% aptations on a separ nytic Vege iil and wet	Vegetation ' (Provide suppor ate sheet) etation¹ (Explain)	Ü	esent	Hydro	ophytic Vegetati	on Present?	□ Yes ☑ No
(Descri	be to the depti	n neede	d to doc	cument	the indicator or co	onfirm the abse	ence of indicators.)
	1						,
%	Color (Moist)	%	Type ¹	Loc ²	Texture		Remarks
100					FINE SANDY LOAM		
100					FINE SANDY LOAM		
	<u> </u>						
n D=Den	letion RM=Redu	ced Matri	x CS=Co	overed Sa	and or Coated Sand (Grains ² Loc	cation: PI =Pore Lining M=Matrix
n, D=Dep ors:	letion, RM=Redu	ced Matri	x, CS=Co	overed Sa	and or Coated Sand 0		cation: PL=Pore Lining, M=Matrix. Problematic Hydric Soils
	etation II receives that C: etation II receives that considerations on a separanytic Vege will and wet oblematic. (Descrit % 100	etation Indicators: retation Indicators: retation Solution retation Indicators: retation Ind	etation Indicators: retration Indicators: retrations' (Provide supporting on a separate sheet) retration wetland hydrology must be problematic. (Describe to the depth needer Redox Feature % Color (Moist) %	etation Indicators: drophytic Vegetation is > 50% 0 daptations¹ (Provide supporting on a separate sheet) intric Vegetation¹ (Explain) iiii and wetland hydrology must be present oblematic. (Describe to the depth needed to doc Redox Features % Color (Moist) % Type ¹	Annt Inta: 6	OBL Species: FACW Species: FAC Species: FAC Species: FAC Species: FAC Species: FACU Species: UPL Species: Column Totals: Prevalence Prev	OBL Species: 0 x1 = FACW Species: 0 x2 = FAC Species: 50 x3 = FAC Species: 50 x3 = FAC Species: 71 x4 = UPL Species: 0 x5 = Column Totals: 121 (A) Prevalence Index = B/A = Prevalence Index = Index

Restrictive Layer Present (if present):				
Туре:	ш	dric Soil Present?	□ v	✓ No
Depth (inches):	Пу	and Son Present?	☐ Yes	▼ NO
Remarks:				



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

Project/Site Constitution	Milepost 62.53985	City/County: Delawar	e Sampling Date: 2014/05/30
Applicant/Owner: Williams		State:	Sampling Point: DE-1A-W473-WET1
Investigator(s): PL;KH	USGS Quad: Frankl	in Sect	on, Township, Range: Sidney
Landform: Drainageway		Local Relief:	✓ Concave ☐ Convex ☐ None Slope (%): 2
Subregion: Middle Atlantic	Latitu	de: 42.355436	Longitude: -75.22986 Datum: NAD 1983
Soil Map Unit Name: Morris flag	gy silt loam, 3 to 8 percent	slopes	NWI Classification: Not mapped
Are climatic/hydrologic conditions of	on the site typical for this ti	me of year? Yes	☐ No (If no, explain in Remarks.)
Are Vegetation Soil or F	lydrology significantly	disturbed? 🗸 No	Are "Normal Circumstances" present? ✓ Yes ☐ No
Are Vegetation Soil or H	ydrology 🔲 naturally pro	blematic? V No	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDING	S - Attach site map	showing sampling p	oint locations, transects, important features, etc.
Hydrophytic Vegetation Present?	✓ Yes	Is the Sampled A	urea
Hydric Soil Present?	✓ Yes	within a Wetland	
Wetland Hydrology Present?	✓ Yes		
Remarks:			
Field Wetland Classification: PF0)		
HYDROLOGY	_		
Wetland Hydrology Indicato	rs		
Primary Indicators (minimum of one is			Secondary Indicators (minimum of two required)
Surface Water (A1)	✓ Water Stain		Surface Soil Cracks (B6)
✓ High Water Table (A2)	Aquatic Fau		✓ Drainage Patterns (B10)
Saturation (A3)		ulfide Odor (C1)	Moss Trim Lines (B16)
Water Marks (B1) Sediment Deposits (B2)		izospheres on Living Roots	C3) Dry-Season Water Table (C2)
Drift Deposits (B3)		Reduced Iron (C4)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Recent Iron	Reduction in Tilled Soils (Co	
☐ Iron Deposits (B5)	Thick Muck	Surface (C7)	Geomorphic Position (D2)
Inundation Visible on Aerial Image	ry (B7) Other (Expla	in in Remarks)	Shallow Aquitard (D3)
Sparsely Vegetated Concave Surfa	ace (B8)		Microtopographic Relief (D4)
			FAC-Neutral Test (D5)
			Other (Explain in Remarks)
			,
Field Observations:	N		
	Yes No Depth (ii		
		nches): 8	Wetland Hydrology Present? ✓ Yes No
Saturation Present:	Yes No Depth (ii	nches): 0	Wetland Hydrology Present? ✓ Yes ☐ No
Describe Recorded Data (stream	gauge, monitoring well, aei	rial photos, previous insp	pections), if available:
Remarks:			

ZEGETATION				
Tree Stratum				
Plot Size: Scientific Name	30 feet	% Cover	Dominant	Indicator
Acer rubrum		70	YES	FAC
Quercus alba		10	NO	FACU
	Total Cover:	80		
Sapling Stratum				
Plot Size:	15 feet			
Scientific Name		% Cover	Dominant	Indicator
Acer rubrum		15	YES	FAC
	Total Cover:	15	ı	
Shrub Stratum				
Plot Size:	15 feet		1	
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
Herb Stratum				
Plot Size:	5 feet			
Scientific Name		% Cover	Dominant	Indicator
Impatiens cape	ensis	25	YES	FACW
Carex crinita		45	YES	OBL
Solidago sp		15	NO	FAC
Rubus sp		10	NO	FACW
	Total Cover:	95		
Vine Stratum				
Plot Size:	30 feet			
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			

that are Total No Species Percent	nance Test Wo r of Dominant Spec OBL, FACW, or F umber of Dominan s Across All Strata: of Dominant Spec , FACW, or FAC:	cies FAC: it : cies tha	4 (A)		Total 9 OBL S FACW FAC S FACU UPL S	alence Index W % Cover of: pecies: pecies: Species: pecies: pecies: pecies:	45 35 100 10 0 190 ce Index =	x 1 = x 2 = x 3 = x 4 = x 5 = (A)	1tiply by: 45 300 40 455 2.39	0 0 0 0 5 (B)
1 - R 2 - D 3 - P 4 - N data Prob	apid Test for Hydrominance Test is a revalance is ≤ 3.0 dorphological Adap in Remarks or on a lematic Hydrophyt tors of hydric soil a disturbed or proble	ophytic > 50% otations ¹ a separ tic Vege	Vegetation (Provide supporate sheet) station¹ (Explain)	Ū	resent	Hydro	ophytic Vegeta			✓ Yes 〔	□ No
Remark	s:										
SOIL											
Profile	Description: ([Descril	pe to the dept	h neede	d to do	cument	the indicator or	confirm t	the abse	ence of indic	ators.)
Profile Depth	Matrix		Rec	dox Featu	ıres	1	_	confirm t	the abse		·
Profile		Descril				Loc ²	the indicator or	confirm t	the abse	ence of indicates	·
Profile Depth	Matrix		Rec	dox Featu	ıres	1	_	confirm t	the abse		·
Profile Depth (in.)	Matrix Color (Moist)	%	Red Color (Moist)	dox Featu %	Type 1	Loc ²	Texture	confirm t	the abso		·
Profile Depth (in.) 0-8 8-16+	Matrix Color (Moist) 7.5YR 3/2 7.5YR 4/2	% 97 92	Rec Color (Moist) 7.5YR 2.5/3 10YR 3/4	dox Featu % 3	Type ¹ C	Loc² M	Texture LOAM			Remarks	·
Profile Depth (in.) 0-8 8-16+	Matrix Color (Moist) 7.5YR 3/2 7.5YR 4/2	% 97 92 D=Dep	Rec Color (Moist) 7.5YR 2.5/3 10YR 3/4	dox Featu % 3	Type ¹ C	Loc² M	Texture LOAM FINE SANDY LOAM	Grains.	² Loc	Remarks	e Lining, M=Matrix.

Restrictive Layer Present (if present):	
Туре:	Hydric Soil Present? ✓ Yes □ No
Depth (inches):	Hydric Son Fresent:
Remarks:	



DE1AW473_053014_WET1SE.jpg Photo Name: Note: DE-1A-W473-WET1

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: Frank	lin	Section	n, Township, Range: Sidney
Landform: Drainageway		Loca	al Relief: [Concave ✓ Convex None Slope (%): 2
Subregion: Middle Atlantic	Latitu	ide: 42.355444	4 I	Longitude: -75.22999 Datum: NAD 1983
Soil Map Unit Name: Morris fla	aggy silt loam, 3 to 8 percent	t slopes		NWI Classification: Not mapped
Are climatic/hydrologic conditions	on the site typical for this ti	me 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	oblematic?	No (I	f needed, explain any answers in Remarks.)
SUMMARY OF FINDING	3S - Attach site map	showing sam	pling poi	nt locations, transects, important features, etc.
Hydrophytic Vegetation Present	? ☐ Yes 🗸 No	le the Com		
Hydric Soil Present?	☐ Yes 🗸 No	Is the Sam within a W		
Wetland Hydrology Present?	☐ Yes 🗸 No	Within a V	retialia .	
Remarks: Upland plot				
Field Wetland Classification:				
HYDROLOGY				
Wetland Hydrology Indicat	ors			
Primary Indicators (minimum of one i				Secondary Indicators (minimum of two required)
Surface Water (A1)		ed Leaves (B9)		Surface Soil Cracks (B6)
High Water Table (A2)	☐ Aquatic Fau ☐ Marl Deposi			Drainage Patterns (B10)
Saturation (A3)	_	ulfide Odor (C1)		Moss Trim Lines (B16)
Water Marks (B1) Sediment Deposits (B2)		izospheres on Livi	ing Roots (C	Dry-Season Water Table (C2) Crayfish Burrows (C8)
Drift Deposits (B3)		Reduced Iron (C4	-	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Recent Iron	Reduction in Tilled	d Soils (C6)	Stunted or Stressed Plants (D1)
☐ Iron Deposits (B5)	☐ Thick Muck	Surface (C7)		Geomorphic Position (D2)
Inundation Visible on Aerial Imag	gery (B7) Other (Expla	ain in Remarks)		Shallow Aquitard (D3)
Sparsely Vegetated Concave Su	rface (B8)			Microtopographic Relief (D4)
				FAC-Neutral Test (D5)
				Other (Explain in Remarks)
Field Observations: Surface Water Present:	Yes ✓ No Depth (i	nches).		
Water Table Present:	Yes ✔ No Depth (i			
Saturation Present:	Yes V No Depth (i			Wetland Hydrology Present? ☐ Yes ✓ No
Describe Recorded Data (stream		,	ious inspe	
Remarks:		, ,,	·	,
remains.				

Tree Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
Acer rubrum		50	YES	FAC
Acer saccharum		35	YES	FACU
Tot	al Cover:	85		
Sapling Stratum				
Plot Size: 15 feet				
Scientific Name		% Cover	Dominant	Indicator
Crataegus crus-galli		8	YES	FAC
Tot	al Cover:	8	I.	1
Shrub Stratum				
Plot Size: 15 feet				1
Scientific Name		% Cover	Dominant	Indicator
Tot	al Cover:			
Herb Stratum				
Plot Size: 5 feet				
Scientific Name		% Cover	Dominant	Indicator
Carex crinita		25	YES	OBL
Quercus alba		3	NO	FACU
Anthoxanthum odoratum		40	YES	FACU
Veratrum viride		8	NO	FACW
Rubus idaeus		3	NO	FACU
Tot	al Cover:	79	l	
Vine Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
Tot	al Cover:			

Number of Domina that are OBL, FAC' Total Number of Do Species Across All Percent of Domina are OBL, FACW, o	V, or FAC: ominant Strata: nt Species tha FAC:	3 (A) 5 (B) 60 (A))		Total 9 OBL S FACW FAC S FACU UPL S	alence Index Wor 6 Cover of: pecies: Species: pecies: Species: pecies: precies: precies: precies: precies:	Multiply by: 25
data in Remarks Problematic Hyd Indicators of hydr unless disturbed of	est is > 50% ≤ ≤ 3.0 Il Adaptations or on a sepa lrophytic Vego c soil and we	¹ (Provide suppor rate sheet) etation¹ (Explain) tland hydrology m	J	esent	Hydro	phytic Vegetatio	n Present? ☐ Yes ☑ No
SOIL Profile Descript	on: (Descri	be to the depti	h neede	d to doc	cument	the indicator or co	nfirm the absence of indicators.)
Depth Ma	trix	Red	lox Featu	ires			
(in.) Color (Mo	oist) %						
		Color (Moist)	%	Type ¹	Loc ²	Texture	Remarks
0-8 7.5YR 3/2	100	Color (Moist)	%	Type ¹	Loc ²	Texture LOAM	Remarks
0-8 7.5YR 3/2 8-18 7.5YR 3/3	100	Color (Moist)	%	Type ¹	Loc ²		Remarks
8-18 7.5YR 3/3	100					LOAM	
8-18 7.5YR 3/3	100 ration, D=Dep					LOAM FINE SANDY LOAM and or Coated Sand Gr	

Restrictive Layer Present (if present):				
Туре:		Uvdria Cail Dracont?	□ Yes	✓ No
Depth (inches):		Hydric Soil Present?	⊔ res	▼ NO
Remarks:				



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

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: Frankl	in	Section	n, Township, Range: Sidney
Landform: Drainage		Loca	al Relief: [✓ Concave ☐ Convex ☐ None Slope (%): 1
Subregion: Middle Atlantic	Latitu	de: 42.354899)	Longitude: -75.23146 Datum: NAD 1983
Soil Map Unit Name: Morris flago	gy silt loam, 3 to 8 percent	slopes		NWI Classification: Not mapped
Are climatic/hydrologic conditions o	n the site typical for this ti	me of year?	✓ Yes	☐ No (If no, explain in Remarks.)
Are Vegetation Soil or H	lydrology significantly	disturbed?	No	Are "Normal Circumstances" present? ✓ Yes ☐ No
Are Vegetation Soil or Hy	ydrology naturally pro	blematic?	No (I	f needed, explain any answers in Remarks.)
SUMMARY OF FINDING	S - Attach site map	showing sam	pling poi	nt locations, transects, important features, etc.
Hydrophytic Vegetation Present?	✓ Yes	Is the Sam	nolod Ar	22
Hydric Soil Present?	✓ Yes	within a W	-	✓ Yes □ No
Wetland Hydrology Present?	✓ Yes			
Remarks:				
Field Wetland Classification: PFC)			
HYDROLOGY				
Wetland Hydrology Indicator	rs			
Primary Indicators (minimum of one is r				Secondary Indicators (minimum of two required)
Surface Water (A1)	✓ Water Staine			Surface Soil Cracks (B6)
High Water Table (A2)	Aquatic Fau			✓ Drainage Patterns (B10)
Saturation (A3)		ulfide Odor (C1)		Moss Trim Lines (B16)
Water Marks (B1) Sediment Deposits (B2)		izospheres on Livi	ng Roots (C	Dry-Season Water Table (C2) Crayfish Burrows (C8)
Drift Deposits (B3)	Presence of	Reduced Iron (C4	.)	✓ Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Recent Iron	Reduction in Tilled	d Soils (C6)	Stunted or Stressed Plants (D1)
☐ Iron Deposits (B5)	Thick Muck	Surface (C7)		Geomorphic Position (D2)
☐ Inundation Visible on Aerial Imager	y (B7) Other (Expla	in in Remarks)		Shallow Aquitard (D3)
Sparsely Vegetated Concave Surfa	ace (B8)			Microtopographic Relief (D4)
				FAC-Neutral Test (D5)
				Other (Explain in Remarks)
Field Observations:	Van ANa Buld			
<u> </u>	Yes No Depth (iii			
	Yes No Depth (iii			Wetland Hydrology Present? ✓ Yes □ No
		nches): 0		
Describe Recorded Data (stream g	jauge, monitoring well, aei	rial photos, prev	vious inspe	ctions), if available:
Remarks:				

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

Dominance Test Number of Dominant S that are OBL, FACW, or Total Number of Dominant S species Across All Str Percent of Dominant S are OBL, FACW, or FA Hydrophytic Veg 1 - Rapid Test for H 2 - Dominance Test 3 - Prevalance is ≤ 4 - Morphological A data in Remarks or Problematic Hydrop Indicators of hydric s unless disturbed or pr	pecies or FAC: nant ata: pecies that AC: etation I ydrophytic is > 50% 3.0 daptations on a sepan chytic Vege bil and wet	3 (A) 3 (B) 1 100 (A) Indicators: Vegetation 1 (Provide supportate sheet) etation1 (Explain) eland hydrology m	B)	sent	Total % OBL S FACW FAC S FACU UPL S Colum	Species: pecies: Species: pecies: protals:	Multiply by: 0	(B) No
1					cument t	the indicator or c	confirm the absence of indicate	ors.)
Depth Matrix (in.) Color (Moist	1	Color (Moist)	lox Featur	es Type ¹	Loc ²	Texture	Remarks	
		COIOI (MOISI)	76	Турс	LOC		Kemarks	
0-8 5YR 3/1 8-16 7.5YR 5/2	92	7.5YR 5/6	8	С	M	FINE SANDY LOAM FINE SANDY LOAM		
¹ Type: C=Concentration	on, D=Dep	letion, RM=Redu	ced Matrix,	, CS=Co	overed Sa	nd or Coated Sand	Grains. ² Location: PL=Pore L	ining, M=Matrix.
Hydric Soil Indicat	ors.							
ń.	013.						Indicators for Problematic Hy	dric Soils

Restrictive Layer Present (if present):			
Туре:	Hydric Soil Present?	✓ Yes	□ No
Depth (inches):	nyunc 3011 Fresent?	▼ 162	□ NO
Remarks:			



DE1AW475_053014_WET1W.jpg Photo Name: Note: DE-1A-W475-WET1

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 Lo	ongitude: -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	nt locations, transects, important features, etc.
Hydrophytic Vegetation Present? ☐ Yes ✓ No	
Hydric Soil Present?	□ Yes 🗹 No
Wetland Hydrology Present?	
Remarks: Upland plot; W474 & W475	
Field Wetland Classification:	
HYDROLOGY	
Wetland Hydrology Indicators	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1) Water Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) Marl Deposits (B15)	Drainage Patterns (B10)
□ Saturation (A3) □ Mart Deposits (B15) □ Water Marks (B1) □ Hydrogen Sulfide Odor (C1)	
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3)	_ , ,
Drift Deposits (B3) Presence of Reduced Iron (C4)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6)	Stunted or Stressed Plants (D1)
☐ Iron Deposits (B5) ☐ Thick Muck Surface (C7)	Geomorphic Position (D2)
☐ Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks)	Shallow Aquitard (D3)
Sparsely Vegetated Concave Surface (B8)	Microtopographic Relief (D4)
	FAC-Neutral Test (D5)
	Other (Explain in Remarks)
Field Observations:	
Surface Water Present:	
Water Table Present:	West of New York
Saturation Present: Yes V No Depth (inches):	Wetland Hydrology Present? ☐ Yes ✔ No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	ctions), if available:
Remarks:	

Tree Stratum		-		
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
Tsuga canadensis		40	YES	FACU
Betula nigra		8	NO	FACW
Acer rubrum		20	YES	FAC
Betula alleghaniensis		10	NO	FAC
	Total Cover:	78		
Sapling Stratum				
Plot Size: 15 feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:	1		
Shrub Stratum				
Plot Size: 15 feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
Herb Stratum				
Plot Size: 5 feet				
Scientific Name		% Cover	Dominant	Indicator
Maianthemum canadense		55	YES	FACU
Coptis trifolia		5	YES	FACW
	Total Cover:	60		
Vine Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			

that are OBL, FACW, Total Number of Dom Species Across All St Percent of Dominant are OBL, FACW, or F	inant rata: Species tha AC: getation I	2 (A) 4 (B) 50 (A))		Total 9 OBL S FACW FAC S FACU UPL S	alence Index Wol 6 Cover of: pecies: Species: pecies: species: pecies: prevalence	Multiply by: 0
 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is > 50% 3 - Prevalance is ≤ 3.0 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic. 					Hydro	ophytic Vegetatio	n Present? □ Yes ☑ No
SOIL Profile Description	n: (Descri	be to the depti	h neede	d to doo	sument.	the indicator or a	
					unicit	the indicator or co	nfirm the absence of indicators.)
Depth Matri	x	Red	lox Featu		Junioni	the indicator or co	nfirm the absence of indicators.)
Depth Matri (in.) Color (Mois		Rec Color (Moist)	lox Featu %		Loc ²	Texture	Remarks
				ires	T		
(in.) Color (Mois	t) %			ires	T	Texture	
(in.) Color (Mois 0-6 7.5YR 3/1 6-14 7.5YR 3/4	100 100	Color (Moist)	%	Type ¹	Loc ²	Texture FINE SANDY LOAM	Remarks
(in.) Color (Mois 0-6 7.5YR 3/1 6-14 7.5YR 3/4	100 100 100 ion, D=Dep	Color (Moist)	%	Type ¹	Loc ²	Texture FINE SANDY LOAM FINE SANDY LOAM and or Coated Sand G	Remarks

Restrictive Layer Present (if present):			
Туре:	Hydric Soil Present?	□ Yes	✓ No
Depth (inches):	nyunc son Fresent?	□ 162	▼ NO
Remarks:			



DE1AW475_053014_UPL1NE.jpg Photo Name: Note: DE-1A-W475-UPL1

Project/Site Constitution	Milepost 62.43746	City/County: Delawar	e Sampling Date: 2014/05/30
Applicant/Owner: Williams		State:	Sampling Point: DE-1A-W476-WET1
Investigator(s): PL;KH	USGS Quad: Frankl	in Sect	ion, Township, Range: Sidney
Landform: Depression		Local Relief:	✓ Concave ☐ Convex ☐ None Slope (%): 0
Subregion: Middle Atlantic	Latitu	de: 42.354429	Longitude: -75.23145 Datum: NAD 1983
Soil Map Unit Name: Morris flag	gy silt loam, 3 to 8 percent	slopes	NWI Classification: Not mapped
Are climatic/hydrologic conditions of	n the site typical for this ti	me of year? Yes	☐ No (If no, explain in Remarks.)
Are Vegetation Soil or H	ydrology significantly	disturbed? V No	Are "Normal Circumstances" present? ✓ Yes ☐ No
Are Vegetation Soil or H	ydrology naturally pro	blematic? V No	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDING	S - Attach site map	showing sampling p	oint locations, transects, important features, etc.
Hydrophytic Vegetation Present?	✓ Yes No		
Hydric Soil Present?	✓ Yes No	Is the Sampled A	
Wetland Hydrology Present?	✓ Yes	within a Wetland	
Remarks:			
Field Wetland Classification: PFC)		
HYDROLOGY			
Wetland Hydrology Indicato	rs		
Primary Indicators (minimum of one is in Surface Water (A1) I High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imager Sparsely Vegetated Concave Surface	Water Stains Aquatic Fau Marl Deposi Hydrogen Si Oxidized Rh Presence of Recent Iron Thick Muck y (B7) Water Stains Aquatic Fau Rerents Oxidized Rh Other (Explains)		Saturation Visible on Aerial Imagery (C9)
	Yes V No Depth (i	nches): 0 nches):	Wetland Hydrology Present? ✓ Yes ☐ No pections), if available:

Tree Stratum				
Plot Size: 30 feet Scientific Name		% Cover	Dominant	Indicator
Tsuga canadensis		70	YES	FAC
Betula alleghaniensis		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
Onoclea sensibilis		15	YES	FACW
	Total Cover:	15		•
Vine Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator

that are Total Nu Species Percent	of Dominant Species OBL, FACW, or FAC: Imber of Dominant Across All Strata: of Dominant Species L, FACW, or FAC:	2 (A)		Total 9 OBL S FACW FAC S FACU UPL S	alence Index 6 Cover of: pecies: Species: pecies: species: pecies: pecies: preva	0 15 90 0 0 105	x 1 = x 2 = x 3 = x 4 = x 5 = (A)	0 30 270 0 0 300 2.86	- - - - - (B)
☐ 1 - Ra	phytic Vegetatio apid Test for Hydrophy ominance Test is > 50 revalance is ≤ 3.0 orphological Adaptatio in Remarks or on a sel lematic Hydrophytic V ors of hydric soil and disturbed or problema	vic Vegetation % ons¹ (Provide suppo parate sheet) egetation¹ (Explain) wetland hydrology n		esent	Hydro	ophytic Vege	etation Pre	esent?	⊻ Yes □	No
Remarks	s:									
SOIL										
Profile	Description: (Des				cument	the indicator o	or confirm	the abse	ence of indicate	ors.)
Profile Depth	Matrix	Red	h needed	ires	Loc ²	the indicator o		the abse	ence of indicat	ors.)
Profile	Matrix	Color (Moist)	dox Featu		T			the abse		ors.)
Profile Depth (in.)	Matrix Color (Moist) %	Color (Moist)	dox Featu	ires	T	Texture		the abso		ors.)
Profile Depth (in.) 0-14 14-18	Matrix Color (Moist) % 10YR 3/2 100	Color (Moist)	dox Featu %	Type ¹	Loc ²	Texture SILT LOAM	,			
Profile Depth (in.) 0-14 14-18	Matrix Color (Moist) % 10YR 3/2 100 10YR 2/2 100	Color (Moist)	dox Featu %	Type ¹	Loc ²	Texture SILT LOAM	and Grains.	² Lo	Remarks	ining, M=Matrix.

Restrictive Layer Present (if present):		
Туре:	Hydric Soil Present?	✓ Yes □ No
Depth (inches):	nyunc 3011 Fresent?	™ 162 □ NO
Remarks:		



DE1AW476_053014_WET1SE.jpg Photo Name: Note: DE-1A-W476-WET1

Project/Site Constitution Milepost 61.8	City/County: Delaware	Sampling Date: 2014/05/30
Applicant/Owner: Williams	State:	Sampling Point: DE-1A-W478-WET1
Investigator(s): PL;KH USGS Q	uad: Franklin Section	n, 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 typic	cal 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 (I	If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach	site map showing sampling poi	int locations, transects, important features, etc.
Hydrophytic Vegetation Present? ✓ Yes	No Is the Sampled Are	02
Hydric Soil Present? ✓ Yes	within a Wetland?	I.Z. Vaa Na
Wetland Hydrology Present? ✓ Yes	☐ No	
Remarks:		
Field Wetland Classification: PFO		
HYDROLOGY		
Wetland Hydrology Indicators		
Primary Indicators (minimum of one is required; check a	all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1)	Water Stained Leaves (B9)	Surface Soil Cracks (B6)
✓ High Water Table (A2)	Aquatic Fauna (B13)	✓ Drainage Patterns (B10)
✓ Saturation (A3)	Marl Deposits (B15)	Moss Trim Lines (B16)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots (C: Presence of Reduced Iron (C4)	Orayiisii Barrows (00)
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)
☐ Algal Mat or Crust (B4)☐ Iron Deposits (B5)☐	Thick Muck Surface (C7)	Stunted or Stressed Plants (D1)
	Other (Explain in Remarks)	Geomorphic Position (D2)
☐ Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8)	J Carlot (Explain in Normanio)	Shallow Aquitard (D3)
Sparsely vegetated concave Surface (Bo)		Microtopographic Relief (D4)
		FAC-Neutral Test (D5)
		Other (Explain in Remarks)
Field Observations:		
Surface Water Present: Yes V 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, monitor	ring well, aerial photos, previous inspec	ctions), if available:
Remarks:		

Tree Stratum			1		
Plot Size: Scientific Name	30 feet		% Cover	Dominant	Indicator
Fagus grandifoli	a		10	NO	FACU
Acer rubrum			40	YES	FAC
Carya ovata			5	NO	FACU
_		Total Cover:	55		
Sapling Stratum					
Plot Size: Scientific Name	15 feet		% Cover	Dominant	Indicator
		Total Cover:			
Shrub Stratum					
Plot Size:	15 feet		II.	1	1
Scientific Name			% Cover	Dominant	Indicator
Fagus grandifoli	a		15	YES	FACU
Carpinus carolin	iana		15	YES	FAC
		Total Cover:	30		1
Herb Stratum			T		1
Plot Size: Scientific Name	5 feet		% Cover	Dominant	Indicator
Carex crinita			60	YES	OBL
Onoclea sensibi	lis		5	NO	FACW
Hamamelis virgi	niana		8	NO	FACU
		Total Cover:	73		
Vine Stratum					
	30 feet				
Scientific Name			% Cover	Dominant	Indicator
		Total Cover:	<u> </u>	<u>I</u>	

Dominance Test Number of Dominant that are OBL, FACW, Total Number of Dom Species Across All Si Percent of Dominant are OBL, FACW, or F Hydrophytic Veg 1 - Rapid Test for 2 - Dominance Test 4 - Morphological data in Remarks of Problematic Hydro Indicators of hydric unless disturbed or p	Species or FAC: inant rata: Species tha AC: getation I Hydrophytic st is > 50% 3.0 Adaptations on a sepa phytic Vege soil and wei	3 (A) 4 (B) 4 (B) 75 (A) ndicators: Vegetation 1 (Provide supporrate sheet) etation1 (Explain) etand hydrology m	B) ting	sent	Total % OBL S FACW FAC S FACU UPL S Colum		Multiply by: 60
1					cument :	the indicator or	r confirm the absence of indicators.)
Depth Matri		Red Color (Moist)	lox Featur	es Type ¹	Loc ²	Texture	Remarks
, ,		Color (Wolst)	70	Type	LOC-		Remarks
0-4 2.5Y 3/2 4-14 2.5Y 4/2	90	10YR 5/6	10	С	М	SILT LOAM	
¹ Type: C=Concentra	ion, D=Dep	∖ letion, RM=Redu	ced Matrix,	, CS=Co	vered Sa	l Ind or Coated San	nd Grains. ² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indica	itors:						Indicators for Problematic Hydric Soils
Histosol (A1) Histic Epipedon (A2		Poly	value Below	Surface	(S8) (LRR	D 141 D 1 (10D)	

Restrictive Layer Present (if present):		
Туре:	Hydric Soil Present?	✓ Yes □ No
Depth (inches):	Tryunc 3011 Fresent:	☑ Tes ☐ NO
Remarks:		



DE1AW478_053014_WET1SE.jpg Photo Name: Note: DE-1A-W478-WET1

Project/Site Constitution Milepost 61.67351 City/County: Delaware	Sampling Date: 2014/05/30
Applicant/Owner: Williams State:	Sampling Point: DE-1A-W478-WET2
$Investigator(s): \begin{tabular}{c c} PL;KH & USGS Quad: \hline Franklin & Section, \\ \end{tabular}$	Township, Range: Sidney
Landform: Drainage Local Relief:	Concave ☐ Convex ☑ None Slope (%): 1
Subregion: Middle Atlantic Latitude: 42.350669 Lo	ongitude: -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 poin	nt locations, transects, important features, etc.
Hydrophytic Vegetation Present? ✓ Yes □ No Is the Sampled Are.	a
Hydric Soil Present? Yes No within a Wetland?	✓ Yes □ No
Wetland Hydrology Present? ✓ Yes ☐ No	
Remarks:	
Field Wetland Classification: PEM	
HYDROLOGY	
Wetland Hydrology Indicators	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1) Water Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2) Aquatic Fauna (B13) Mad Pagasite (B45)	✓ Drainage Patterns (B10)
✓ Saturation (A3)	Moss Trim Lines (B16)
Ovidinal Phinashana and hidra Basta (CO)	Dry-Season Water Table (C2)
☐ Sediment Deposits (B2) ☐ Drift Deposits (B3) ☐ Presence of Reduced Iron (C4)	Grayhen Barrows (66)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)
☐ Iron Deposits (B5) ☐ Thick Muck Surface (C7)	Stunted or Stressed Plants (D1)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Geomorphic Position (D2)
Sparsely Vegetated Concave Surface (B8)	☐ Shallow Aquitard (D3)☐ Microtopographic Relief (D4)
	FAC-Neutral Test (D5)
	Other (Explain in Remarks)
	Guld (Explain in Normano)
Field Observations:	
Surface Water Present:	
Water Table Present:	
Saturation Present: Yes No Depth (inches): 0	Wetland Hydrology Present? ✓ Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	tions), if available:
Remarks:	

Tree Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
Acer rubrum		40	YES	FAC
Fagus grandifolia		10	NO	FACU
Carya ovata		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				1
Scientific Name		% Cover	Dominant	Indicator
Salix sp		15	YES	FACW
	Total Cover:	15		
Herb Stratum				
Plot Size: 5 feet				
Scientific Name		% Cover	Dominant	Indicator
Ranunculus sp		10	NO	FAC
Onoclea sensibilis		8	NO	FACW
Carex stricta		50	YES	OBL
Anthoxanthum odoratum		20	YES	FACU
	Total Cover:	88		
Vine Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
	10141 001011			

that are Total No Species Percent	nance Test Wor r of Dominant Specie OBL, FACW, or FA umber of Dominant s Across All Strata: t of Dominant Specie L, FACW, or FAC:	ies AC:	3 (A 4 (B)		Total of OBL S FACW FAC S FACU UPL S	Alence Index W % Cover of: Species: / Species: Species: Species: species: In Totals: Prevalen		tiply by: 50 46 150 140 0 386 (B) 2.44
1 - R 2 - D 3 - P 4 - N data Prob	apid Test for Hydrop cominance Test is > revalance is ≤ 3.0 dorphological Adapta in Remarks or on a elematic Hydrophytic tors of hydric soil an disturbed or probler	ations ¹ c Vege	Vegetation (Provide supporate sheet) tation¹ (Explain)	Ū	resent	Hydro	ophytic Vegeta	-	✓ Yes □ No
Remark	s:								
SOIL	D						41 . 1 . 1		
Profile		escrik	_			cument	the indicator or	confirm the abse	nce of indicators.)
	Matrix	escrik %	_	h neede dox Featu %		Loc ²	the indicator or	confirm the abse	nce of indicators.)
Profile Depth	Matrix		Red	dox Feat	ıres	1		Confirm the abse	Remarks
Profile Depth (in.)	Matrix Color (Moist)	%	Red Color (Moist)	dox Featu %	Type 1	Loc ²	Texture		Remarks
Profile Depth (in.) 0-4 4-14+	Matrix Color (Moist) 7.5YR 3/2 2.5Y 4/2	% 97 90	Rec Color (Moist) 7.5YR 2.5Y/3 10YR 5/6	3	Type ¹ C	Loc² M	Texture SILT LOAM SILT LOAM	Organic matter	Remarks
Profile Depth (in.) 0-4 4-14+	Matrix Color (Moist) 7.5YR 3/2	% 97 90 D=Depl	Rec Color (Moist) 7.5YR 2.5Y/3 10YR 5/6	3	Type ¹ C	Loc² M	Texture SILT LOAM SILT LOAM	Organic matter	Remarks

Restrictive Layer Present (if present):	
Туре:	Hydric Soil Present? ✓ Yes □ No
Depth (inches):	Hydric Son Fresent:
Remarks:	



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

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 Lo	ongitude: -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 r	needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sampling point	t locations, transects, important features, etc.
Hydrophytic Vegetation Present? ☐ Yes ✓ No	
Hydric Soil Present?	□ Yes ☑ No
Wetland Hydrology Present? ☐ Yes ✓ No	
Remarks: Upland plot	
Field Wetland Classification:	
HYDROLOGY	
Wetland Hydrology Indicators	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1) ☐ High Water Table (A2) ☐ Aquatic Fauna (B13)	Surface Soil Cracks (B6)
Mad Passite (PAS)	☐ Drainage Patterns (B10) ☐ Moss Trim Lines (B16)
Saturation (A3) Water Marks (B1) Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3)	_ , ,
Drift Deposits (B3) Presence of Reduced Iron (C4)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6)	Stunted or Stressed Plants (D1)
☐ Iron Deposits (B5) ☐ Thick Muck Surface (C7)	Geomorphic Position (D2)
☐ Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks)	Shallow Aquitard (D3)
Sparsely Vegetated Concave Surface (B8)	Microtopographic Relief (D4)
	FAC-Neutral Test (D5)
	Other (Explain in Remarks)
Field Observations:	
Surface Water Present: Yes No Depth (inches):	
Water Table Present: Yes No Depth (inches):	Wetland Hydrology Present? ☐ Yes ✔ No
Saturation Present: Yes V No Depth (inches):	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspecti	ions), if available:
Remarks:	

Tree Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
Carpinus caroliniana		45	YES	FAC
Ostrya virginiana		25	YES	FACU
Acer saccharum		15	NO	FACU
	Total Cover:	85		
Sapling Stratum				
Plot Size: 15 feet				
Scientific Name		% Cover	Dominant	Indicator
Acer saccharum		8	YES	FACU
	Total Cover:	8	I	
Shrub Stratum				
Plot Size: 15 feet				1
Scientific Name		% Cover	Dominant	Indicator
Hamamelis virginiana		10	YES	FACU
	Total Cover:	10	1	,
Herb Stratum				
Plot Size: 5 feet				
Scientific Name		% Cover	Dominant	Indicator
Ostrya virginiana		3	NO	FACU
Anthoxanthum odoratum		40	YES	FACU
Fagus grandifolia		5	NO	FACU
	Total Cover:	48		
Vine Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			

Number of Dominant S that are OBL, FACW, or Total Number of Domin Species Across All Stra Percent of Dominant S are OBL, FACW, or FA Hydrophytic Vege 1 - Rapid Test for H 2 - Dominance Test 3 - Prevalance is ≤ 3 4 - Morphological Ad data in Remarks or Problematic Hydrop ¹Indicators of hydric so unless disturbed or pro Remarks:	etation I //drophytic //drophy	1 (A) 5 (B) t 20 (A) ndicators: Vegetation (Provide supportate sheet) etation¹ (Explain)) (B) tting	esent	Total 9 OBL S FACW FAC S FACU UPL S Colum	alence Index Wo 6 Cover of: pecies: Species: pecies: Species: pecies: precies: prevalence prevalence	Multiply by: 0
SOIL Profile Description	(Descri	ne to the dent	n neede	d to doc	cument:	the indicator or c	onfirm the absence of indicators.)
Depth Matrix	(Descri		lox Featu		Junent	line indicator or c	billilli the absence of indicators.)
(in.) Color (Moist)	%	Color (Moist)	%	Type 1	Loc ²	Texture	Remarks
0-6 7.5YR 3/2	100			71		FINE SANDY LOAM	
6-14 7.5YR 4/4	100					FINE SAINDT LOAIVI	
						FINE SANDY LOAM	
¹ Type: C=Concentration		letion, RM=Redu	ced Matri	x, CS=Co	overed Sa	FINE SANDY LOAM	Grains. ² Location: PL=Pore Lining, M=Matrix.
¹ Type: C=Concentration Hydric Soil Indicate	on, D=Dep	letion, RM=Redu	ced Matri	x, CS=Co	overed Sa	FINE SANDY LOAM	Grains. ² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils

Restrictive Layer Present (if present):			
Туре:	Hudria Cail Dracant?	☐ Yes	✓ No
Depth (inches):	Hydric Soil Present?	⊔ res	▼ NO
Remarks:			



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

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	Sectio	n, Township, Range: Davenport
Landform: Drainageway		Loc	cal Relief:	✓ Concave ☐ Convex ☐ None Slope (%): 0
Subregion: Middle Atlantic	Latitu	ide: 42.45558	80	Longitude: -74.89796 Datum: NAD 1983
Soil Map Unit Name: Deposit gra	avelly silt loam			NWI Classification: Not mapped
Are climatic/hydrologic conditions of	on the site typical for this ti	me of year?	✓ Yes	☐ No (If no, explain in Remarks.)
Are Vegetation Soil or H	lydrology significantly	disturbed?	No	Are "Normal Circumstances" present? ✓ Yes ✓ No
Are Vegetation Soil or Hy	ydrology naturally pro	blematic?	No ((If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS	S - Attach site map	showing san	npling po	int locations, transects, important features, etc.
Hydrophytic Vegetation Present?	✓ Yes No	1- 4 0		
Hydric Soil Present?	✓ Yes	Is the Sar within a V		
Wetland Hydrology Present?	✓ Yes	within a v	veliana :	
Remarks:				
Field Wetland Classification: PEN	Λ			
HYDROLOGY				
Wetland Hydrology Indicato	rs			
Primary Indicators (minimum of one is r	equired; check all that apply)			Secondary Indicators (minimum of two required)
Surface Water (A1)		ed Leaves (B9)		Surface Soil Cracks (B6)
High Water Table (A2)	☐ Aquatic Fau			Drainage Patterns (B10)
Saturation (A3)	☐ Marl Deposi			Moss Trim Lines (B16)
Water Marks (B1)		ulfide Odor (C1)	D	Dry-Season Water Table (C2)
Sediment Deposits (B2)		izospheres on Living Reduced Iron (C		craymon barrows (ee)
Drift Deposits (B3)		Reduction in Tille		Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Surface (C7)	30 00ll3 (00)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)		ain in Remarks)		Geomorphic Position (D2)
Inundation Visible on Aerial Image	, (21)	alli ili Relliaiks)		Shallow Aquitard (D3)
Sparsely Vegetated Concave Surfa	ice (Bo)			Microtopographic Relief (D4)
				FAC-Neutral Test (D5)
				Other (Explain in Remarks)
Field Observations:				
Surface Water Present:	Yes No Depth (i	nches): 2		
Water Table Present:	Yes No Depth (i	nches): 0		
Saturation Present:	Yes No Depth (i	nches): 0		Wetland Hydrology Present? ✓ Yes No
Describe Recorded Data (stream g	gauge, monitoring well, ae	rial photos, pre	vious inspe	ections), if available:
Remarks:				

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	,		1	
Scientific Name	% (Cover	Dominant	Indicator
	Total Cover:			
Herb Stratum				
Plot Size: 5 feet				
Scientific Name	% (Cover	Dominant	Indicator
Juncus effusus		8	NO	OBL
Ranunculus acris		60	YES	FAC
Carex crinita		25	YES	OBL
Eleocharis obtusa		5	NO	OBL
	Total Cover: 98			
Vine Stratum		·	-	
Plot Size: 30 feet				
Scientific Name	% (Cover	Dominant	Indicator
	Total Cover:			

that are OBL, FACW, or Total Number of Domin Species Across All Strate Percent of Dominant Spare OBL, FACW, or FACM. Hydrophytic Vegeton 1 - Rapid Test for Hy 2 - Dominance Test 3 - Prevalance is ≤ 3 4 - Morphological Acceptation in Remarks or or Problematic Hydropical Indicators of hydric scunless disturbed or problemarks:	etation I rdrophytic is > 50% aptations on a sepa nytic Vege iil and we	2 (A) 2 (B) 100 (A) 10) /B) ting	resent	OBL S FACW FAC S FACU UPL S Colum	alence Index W 6 Cover of: pecies: Species: pecies: pecies: n Totals: Prevalen	Multiply 38	y by: 38
SOIL Profile Description:	(Descri	be to the depti	h neede	d to do	cument	the indicator or	confirm the absence	
		_			Jannonic	life indicator or	bommin the absence	e of indicators.)
Depth Matrix (in.) Color (Moist)	%		dox Featu	ıres	T			<u> </u>
(in.) Color (Moist) 0-5 2.5Y 3/2	% 92	Color (Moist) 10YR 3/4	dox Featu % 8		Loc²	Texture FINE SANDY LOAM	discontinuo disserio.	e of indicators.) Remarks
(in.) Color (Moist)		Color (Moist)	%	Type 1	Loc ²	Texture		<u> </u>
(in.) Color (Moist) 0-5 2.5Y 3/2	92	10YR 3/4 10YR 3/4	% 8 10	Type 1 C C	PL M,PL	Texture FINE SANDY LOAM FINE SANDY LOAM		<u> </u>
(in.) Color (Moist) 0-5 2.5Y 3/2 5-15 10YR 4/1	92 90 n, D=Dep	10YR 3/4 10YR 3/4	% 8 10	Type 1 C C	PL M,PL	Texture FINE SANDY LOAM FINE SANDY LOAM	Grains. ² Locatio	Remarks

Restrictive Layer Present (if present):	
Туре:	Hydric Soil Present? ✓ Yes ☐ No
Depth (inches):	nyunc son Fresent? • Tes - No
Remarks:	



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

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	on, Township, Range: Davenport
Landform: Plain		Local Relief:	☐ Concave ✓ Convex ☐ None Slope (%): 2
Subregion: Middle Atlantic	Latitu	ide: 42.455944	Longitude: -74.89801 Datum: NAD 1983
Soil Map Unit Name: Deposit g	ravelly silt loam		NWI Classification: Not mapped
Are climatic/hydrologic conditions	on the site typical for this ti	me of year?	☐ No (If no, explain in Remarks.)
Are Vegetation ✓ Soil ☐ or	Hydrology significantly	disturbed? No	Are "Normal Circumstances" present? ✓ Yes ☐ No
Are Vegetation Soil or H	Hydrology	oblematic? No	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDING	S - Attach site map	showing sampling po	oint locations, transects, important features, etc.
Hydrophytic Vegetation Present?	Yes ✓ No	lo the Campled A	
Hydric Soil Present?	☐ Yes 🗸 No	Is the Sampled A within a Wetland	
Wetland Hydrology Present?	☐ Yes 🗸 No		
Remarks: Upland			
Field Wetland Classification:			
HYDROLOGY			
Wetland Hydrology Indicate	ors		
Primary Indicators (minimum of one is	required; check all that apply)		Secondary Indicators (minimum of two required)
Surface Water (A1)		ed Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2)	☐ Aquatic Fau		Drainage Patterns (B10)
Saturation (A3)	Marl Deposi	ulfide Odor (C1)	Moss Trim Lines (B16)
Water Marks (B1)		iizospheres on Living Roots (Dry-Season Water Table (C2)
Sediment Deposits (B2)		Reduced Iron (C4)	Grayiish Barrows (66)
☐ Drift Deposits (B3) ☐ Algal Mat or Crust (B4)		Reduction in Tilled Soils (C6	Saturation Visible on Aerial Imagery (C9)
Iron Deposits (B5)	Thick Muck	Surface (C7)	Stunted or Stressed Plants (D1)
Inundation Visible on Aerial Imag	ery (B7) Other (Expla	ain in Remarks)	Geomorphic Position (D2)
Sparsely Vegetated Concave Sur			Shallow Aquitard (D3)
	,		Microtopographic Relief (D4)
			FAC-Neutral Test (D5)
			Other (Explain in Remarks)
Field Observations:			
Surface Water Present:	Yes 🗸 No Depth (i	nches):	
Water Table Present:	Yes 🗸 No Depth (i	nches):	
Saturation Present:	Yes 🗸 No Depth (i	nches):	Wetland Hydrology Present? ☐ Yes ✓ No
Describe Recorded Data (stream	gauge, monitoring well, ae	rial photos, previous insp	ections), if available:
Remarks:			

Tree Stratum		1		T
Plot Size: 30 feet Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
Sapling Stratum				
Plot Size: 15 feet				
Scientific Name		% Cover	Dominant	Indicator
Shrub Stratum	Total Cover:			
Plot Size: 15 feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
Herb Stratum		I		I
Plot Size: 5 feet Scientific Name		% Cover	Dominant	Indicator
Trifolium repens		15	NO VEC	FACU
Dactylis glomerata		85	YES	FACU
	Total Cover:	100		
Vine Stratum		T		T
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
Dominance Test Worksheet:	Prevalence Index	Worksheet:		
Number of Dominant Species	Total % Cover of:		Multiply by:	_
that are OBL, FACW, or FAC: 0 (A) Total Number of Dominant	OBL Species:		1 =0	_
Species Across All Strata: 1 (B)	FACW Species:		2 = 0	<u> </u>
Percent of Dominant Species that are OBL, FACW, or FAC: 0 (A/B)	FAC Species: FACU Species:		3 = <u>0</u> 4 = 400	
ale Obl., FACW, 01 FAC.	UPL Species:		5 = 0	_
	Column Totals:	100 (A) 400	(B)
	Preva	lence Index = B/A	4.00	<u></u>
Hydrophytic Vegetation Indicators:				
1 - Rapid Test for Hydrophytic Vegetation				
2 - Dominance Test is > 50%	Hydrophytic Vege	station Proces	nt? ☐ Yes ☑	No
☐ 3 - Prevalance is ≤ 3.0	nyuropnyuc vege	tation Fresei	it: □ 165 <u>•</u>	ı NO
4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)				
Problematic Hydrophytic Vegetation¹ (Explain)				
¹Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.				
Remarks:				

SOII

OOIL								
Profile	Description:	(Descri	be to the depth	neede	d to doo	cument	the indicator or	confirm the absence of indicators.)
Depth	Matrix	atrix Redox Features		Redox Features				
(in.)	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²	Texture	Remarks
0-12	10YR 3/2	100				None	FINE SANDY LOAM	
12-20	10YR 4/4	100					FINE SANDY LOAM	
¹ Type:	C=Concentration	n, D=Dep	letion, RM=Reduc	ced Matri	ix, CS=Co	overed Sa	and or Coated Sand	Grains. ² Location: PL=Pore Lining, M=Matrix.
Hydri	c Soil Indicato	rs:						Indicators for Problematic Hydric Soils
Histing Histin Histing Histing Histing Histing Histing Histing Histing Histing	tosol (A1) tic Epipedon (A2) ck Histic (A3) drogen Sulfide (A4) atified Layers (A5) bleted Below Dark S ck Dark Surface (A4) dy Mucky Mineral (dy Gleyed Matrix (S6) dy Redox (S5) pped Matrix (S6) k Surface (S7) (LR1 ors of hydrophytic v	12) S1) S4) R R, MLRA	Thin Loar Loar Depl Red Red Othe	Dark Suriny Mucky my Gleyed eted Matri ox Dark S eted Dark ox Depres	face (S9) (L Mineral (F1 Matrix (F2 ix (F3) urface (F6) Surface (F sions (F8) in Remark	LRR R, ML (1) (LRR K,) (77)	L)	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)
Туре	•	Present	t (if present):				Ну	dric Soil Present? ☐ Yes 🗹 No
Remark	S:						1	



DE1AW484_061814_UPL1S.jpg Photo Name: Note: DE-1A-W484-UPL1

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 I	Davenport	Sectio	n, Township, Range: Davenport
Landform: Depression		Loc	al Relief:	✓ Concave ☐ Convex ☐ None Slope (%): 0
Subregion: Middle Atlantic	Latitu	de: 42.45638	3	Longitude: -74.89792 Datum: NAD 1983
Soil Map Unit Name: Deposit of	gravelly silt loam			NWI Classification: Not mapped
Are climatic/hydrologic conditions	on the site typical for this tir	me 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 pro	blematic? 🗸	No (If needed, explain any answers in Remarks.)
SUMMARY OF FINDING	3S - Attach site map	showing sam	npling po	int locations, transects, important features, etc.
Hydrophytic Vegetation Present	? ✓ Yes No	Is the San	nnled Ar	02
Hydric Soil Present?	✓ Yes No	within a V		
Wetland Hydrology Present?	✓ Yes			
Remarks:				
Field Wetland Classification: Pl	ΕM			
HYDROLOGY				
Wetland Hydrology Indicat	ors			
Primary Indicators (minimum of one i	s required; check all that apply)			Secondary Indicators (minimum of two required)
Surface Water (A1)		ed Leaves (B9)		Surface Soil Cracks (B6)
High Water Table (A2)	Aquatic Fau			Drainage Patterns (B10)
Saturation (A3)	Marl Deposit	ulfide Odor (C1)		Moss Trim Lines (B16)
Water Marks (B1)		izospheres on Liv	ina Roots (C	Dry-Season Water Table (C2)
Sediment Deposits (B2) Drift Deposits (B3)		Reduced Iron (C		Crayfish Burrows (C8) ✓ Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Recent Iron	Reduction in Tille	ed Soils (C6)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Thick Muck	Surface (C7)		Geomorphic Position (D2)
Inundation Visible on Aerial Imag	gery (B7) Other (Expla	in in Remarks)		Shallow Aquitard (D3)
Sparsely Vegetated Concave Su	rface (B8)			Microtopographic Relief (D4)
				FAC-Neutral Test (D5)
				Other (Explain in Remarks)
Field Observations:				
		nches): 2		
		nches): 0		W (I III I B (O Voc No
Saturation Present:	✓ Yes	nches): 0		Wetland Hydrology Present? ✓ Yes ☐ No
Describe Recorded Data (stream	n gauge, monitoring well, aei	rial photos, pre	vious inspe	ections), if available:
Remarks:				

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	i	1	1	1
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
Herb Stratum				
Plot Size: 5 feet				
Scientific Name		% Cover	Dominant	Indicator
Juncus effusus		20	YES	OBL
Ranunculus acris		60	YES	FAC
Eleocharis obtusa		8	NO	OBL
	Total Cover:	88		
Vine Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
		l .	l .	1

Numbe that are Total N Species Percen	r of Dominant Spe OBL, FACW, or fumber of Dominar Across All Strata t of Dominant Spe L, FACW, or FAC	ecies FAC: nt a: ecies tha	2_(A 2_(B)		Total 9 OBL S FACW FAC S FACU UPL S	Alence Index W 6 Cover of: pecies: Species: pecies: Species: pecies: n Totals:		180 0 180 0 0 208 (B)
1 - F	pphytic Vegeta apid Test for Hydrominance Test is revalance is ≤ 3.0 dorphological Adap in Remarks or on elematic Hydrophy tors of hydric soil disturbed or problems	rophytic > 50% ptations a separ tic Vege and wet	Vegetation (Provide supporate sheet) tation¹ (Explain)	J	esent	Hydro	ophytic Vegetat	-	✓ Yes □ No
SOIL		Dogori	on to the dont	h noodo	d to do		the indicator or	ponfirm the phoo	nce of indicators.)
Depth	Matrix	Descri		dox Featu		umem	ine maicator or t		nice of indicators.
(in.)	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²	Texture		
0-5	2.5Y 3/2	90					Texture		Remarks
			10YR 3/4	10	С	PL	FINE SANDY LOAM		Remarks
5-15	10YR 4/2	85	10YR 3/4	15	С	PL M,PL			Remarks
			10YR 3/4	15	С	M,PL	FINE SANDY LOAM	Crains 21 on	
¹ Type:		D=Dep	10YR 3/4	15	С	M,PL	FINE SANDY LOAM		Remarks ation: PL=Pore Lining, M=Matrix. Problematic Hydric Soils

□ No
」 NO
-



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

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 I	Davenport	Section	on, Township, Range: Davenport
Landform: Depressions		Loc	al Relief:	✓ Concave ☐ Convex ☐ None Slope (%): 0
Subregion: Middle Atlantic	Latitu	de: 42.45633	4	Longitude: -74.89874 Datum: NAD 1983
Soil Map Unit Name: Deposit of	gravelly silt loam			NWI Classification: Not mapped
Are climatic/hydrologic conditions	on the site typical for this ti	me 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 pro	blematic?	No	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDING	3S - Attach site map	showing sam	npling po	oint locations, transects, important features, etc.
Hydrophytic Vegetation Present	? 🗸 Yes 🗌 No	Is the San	nnled Aı	rea
Hydric Soil Present?	✓ Yes No	within a W		
Wetland Hydrology Present?	✓ Yes No			
Remarks:				
Field Wetland Classification: Pl	EM			
HYDROLOGY				
Wetland Hydrology Indicat	ors			
Primary Indicators (minimum of one i	s required; check all that apply)			Secondary Indicators (minimum of two required)
Surface Water (A1)		ed Leaves (B9)		Surface Soil Cracks (B6)
High Water Table (A2)	Aquatic Fau			Drainage Patterns (B10)
Saturation (A3)	☐ Marl Deposi	ts (B15) ulfide Odor (C1)		Moss Trim Lines (B16)
Water Marks (B1)		izospheres on Liv	vina Roots ((Dry-Season Water Table (C2)
Sediment Deposits (B2)		Reduced Iron (C4		ordynan burrows (00)
☐ Drift Deposits (B3) ☐ Algal Mat or Crust (B4)		Reduction in Tille	•	Saturation Visible on Aerial Imagery (C9)
Iron Deposits (B5)		Surface (C7)	, ,	Stunted or Stressed Plants (D1)
✓ Inundation Visible on Aerial Imag	uery (B7) Other (Expla	in in Remarks)		Geomorphic Position (D2)
Sparsely Vegetated Concave Su	, , ,			Shallow Aquitard (D3)
				Microtopographic Relief (D4) FAC-Neutral Test (D5)
				Other (Explain in Remarks)
				Guiei (Explain in Nemarks)
Field Observations:				
		nches): 3		
		nches): 0		
Saturation Present:	✓ Yes	nches): 0		Wetland Hydrology Present? ✓ Yes ☐ No
Describe Recorded Data (stream	n gauge, monitoring well, ae	rial photos, prev	vious inspe	ections), if available:
Remarks:				

Tree Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
Sapling Stratum				
Plot Size: 15 feet				
Scientific Name		% Cover	Dominant	Indicator
Shrub Stratum	Total Cover:			
Plot Size: 15 feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
Herb Stratum		T		T
Plot Size: 5 feet Scientific Name		0/ 00	Dominant	lu di satan
				Indicator
Eleocharis obtusa		25	YES	OBL
Ranunculus acris		70	YES	FAC
	Total Cover:	95		
Vine Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
Dominance Test Worksheet:	Prevalence Index	Worksheet:		
Number of Dominant Species	Total % Cover of:		Multiply by:	<u></u>
that are OBL, FACW, or FAC: 2 (A)	OBL Species:	25 x	1 = 25	
Total Number of Dominant Species Across All Strata: 2 (B)	FACW Species:		2 = 0	
Percent of Dominant Species that	FAC Species:		3 = 210	_
are OBL, FACW, or FAC: 100 (A/B)	FACU Species:		4 = <u>0</u> 5 = 0	_
	Column Totals:	95 (A		— (B)
		lence Index = B/A	, <u> </u>	_ (=)
Hudronbutio Vocatation Indicators			-	_
Hydrophytic Vegetation Indicators:				
1 - Rapid Test for Hydrophytic Vegetation				-
✓ 2 - Dominance Test is > 50%	Hydrophytic Vege	tation Preser	nt? ✓ Yes	No
✓ 3 - Prevalance is ≤ 3.0				
4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)				
☐ Problematic Hydrophytic Vegetation¹ (Explain)				
¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.				
Remarks:				

SOIL								
Profile	Description:	(Descri	be to the depth	neede	d to do	cument	the indicator or o	confirm the absence of indicators.)
Depth	Matrix		Red	Redox Features				
(in.)	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²	Texture	Remarks
0-5	2.5Y 3/2	90	10YR 3/4	10	С	PL	FINE SANDY LOAM	
5-15	10YR 4/2	87	10YR 3/4	13	С	M,PL	FINE SANDY LOAM	
¹ Type:	C=Concentration	ı, D=Dep	oletion, RM=Reduc	ced Matri	ix, CS=Co	overed Sa	and or Coated Sand	Grains. ² Location: PL=Pore Lining, M=Matrix.
Hissi Hissi Hissi Blan Hyc Stra Dep Thic Sar Sar Sar	tosol (A1) tic Epipedon (A2) ck Histic (A3) drogen Sulfide (A4) atified Layers (A5) bleted Below Dark S ck Dark Surface (A1 ady Mucky Mineral (Sa) drogen Matrix (Sa) pped Matrix (S6) kk Surface (S7) (LRF	Surface (A 12) S1) S4)	Thin Loan Loan V Depl Redc Redc Othe	Dark Suring Mucky my Gleyed eted Matri ox Dark Si eted Dark ox Depres	face (S9) (l Mineral (F Matrix (F2	LRR R, ML 1) (LRR K, 2)) F7)	*	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)
Restri	ctive Layer F		and wetland hydrolog	gy must be	e present u	inless distu		dric Soil Present?
Remark	S:							



DE1AW486_061814_WET1NW.jpg Photo Name: Note: DE-1A-W486-WET1

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	Sectio	n, Township, Range: Davenport
Landform: Drainage		Loc	cal Relief:	✓ Concave ☐ Convex ☐ None Slope (%): 0
Subregion: Middle Atlantic	Latitu	ıde: 42.45592	26	Longitude: -74.89839 Datum: NAD 1983
Soil Map Unit Name: Deposit gra	avelly silt loam			NWI Classification: Not mapped
Are climatic/hydrologic conditions o	n the site typical for this ti	me of year?	✓ Yes	☐ No (If no, explain in Remarks.)
Are Vegetation Soil or H	ydrology significantly	disturbed?	No	Are "Normal Circumstances" present? ✓ Yes No
Are Vegetation Soil or Hy	drology naturally pro	oblematic?	No (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS	5 - Attach site map	showing san	npling po	int locations, transects, important features, etc.
Hydrophytic Vegetation Present?	✓ Yes	l- (b- 0		
Hydric Soil Present?	✓ Yes	Is the Sar within a V		
Wetland Hydrology Present?	✓ Yes	within a v	vetiana:	
Remarks:	_			
Field Wetland Classification: PEN	1			
HYDROLOGY				
Wetland Hydrology Indicator	'S			
Primary Indicators (minimum of one is r				Secondary Indicators (minimum of two required)
Surface Water (A1)		ed Leaves (B9)		Surface Soil Cracks (B6)
✓ High Water Table (A2)	Aquatic Fau			Drainage Patterns (B10)
Saturation (A3)	Marl Deposi	ulfide Odor (C1)		Moss Trim Lines (B16)
Water Marks (B1)		nizospheres on Liv	vina Poots (C	Dry-Season Water Table (C2)
Sediment Deposits (B2)		Reduced Iron (C		oraynon barrons (50)
☐ Drift Deposits (B3) ☐ Algal Mat or Crust (B4)		Reduction in Tille		Saturation Visible on Aerial Imagery (C9)
Iron Deposits (B5)		Surface (C7)	(,	Stunted or Stressed Plants (D1)
✓ Inundation Visible on Aerial Imager		ain in Remarks)		Geomorphic Position (D2)
Sparsely Vegetated Concave Surfa	, (5.)	,		Shallow Aquitard (D3)
spailedly regerated sellicate same	35 (25)			Microtopographic Relief (D4)
				FAC-Neutral Test (D5)
				Other (Explain in Remarks)
Field Observations:				
	Yes V No Depth (i			
		nches): 0		West No.
Saturation Present:	Yes No Depth (i	nches): 0		Wetland Hydrology Present? ✓ Yes ☐ No
Describe Recorded Data (stream g	jauge, monitoring well, ae	rial photos, pre	vious inspe	ections), if available:
Remarks:				

Tree Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
Sapling Stratum				
Plot Size: 15 feet				
Scientific Name		% Cover	Dominant	Indicator
Shrub Stratum	Total Cover:			
Plot Size: 15 feet				
Scientific Name		% Cover	Dominant	Indicator
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
	Total Cover:			
Herb Stratum		T		T
Plot Size: 5 feet		0/ 00	Daminant	lu di satan
Scientific Name			Dominant	Indicator
Ranunculus acris		65	YES	FAC
Carex crinita		25	YES	OBL
	Total Cover:	90		
Vine Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
Dominance Test Worksheet:	Prevalence Index	Worksheet:		
Number of Dominant Species	Total % Cover of:		Multiply by:	
that are OBL, FACW, or FAC: 2 (A)	OBL Species:	25 x	1 = 25	_
Total Number of Dominant Species Across All Strata: 2 (B)	FACW Species:	0 x :	2 = 0	
Percent of Dominant Species that	FAC Species:		3 = 195	_
are OBL, FACW, or FAC: 100 (A/B)	FACU Species: UPL Species:		4 = <u>0</u> 5 = 0	<u> </u>
	Column Totals:	90 (A		— (B)
		lence Index = B/A	, <u> </u>	_ (5)
			·	<u> </u>
Hydrophytic Vegetation Indicators:				
1 - Rapid Test for Hydrophytic Vegetation				
✓ 2 - Dominance Test is > 50%	Hydrophytic Vege	tation Preser	nt? Yes □	No
✓ 3 - Prevalance is ≤ 3.0				
4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)				
☐ Problematic Hydrophytic Vegetation¹ (Explain)				
¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.				
Remarks:				

	oth Matrix		Red	ox Featu	ıres			
(in.)	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²	Texture	Remarks
)-5	2.5Y 3/2	92	10YR 3/4	8	С	PL	FINE SANDY LOAM	
-15	10YR 4/2	87	10YR 3/4	13	С	M,PL	FINE SANDY LOAM	
Type:	C=Concentration	, D=Dep	letion, RM=Reduc	ed Matri	ix, CS=Co	overed Sa	and or Coated Sand	Grains. ² Location: PL=Pore Lining, M=Matri.
Hydri	c Soil Indicato	rs:						Indicators for Problematic Hydric Soils
Hiss Bla Hyce Stra Dep Thic Sar Sar Stri Dar	tosol (A1) tic Epipedon (A2) ck Histic (A3) drogen Sulfide (A4) atified Layers (A5) oleted Below Dark S ck Dark Surface (A1 ndy Mucky Mineral (8 ndy Gleyed Matrix (S ndy Redox (S5) pped Matrix (S6) ck Surface (S7) (LRF	2) 51) 64) R R, MLRA	Thin Loan Loan Peplo Redc Redc Othe	Dark Suriny Mucky ny Gleyed eted Matri ox Dark S eted Dark ox Depres r (Explain	face (S9) (L Mineral (F1 Matrix (F2 ix (F3) urface (F6) Surface (F sions (F8) in Remark	LRR R, ML (1) (LRR K,)	L)	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)
Restr i			t (if present):				Нус	Iric Soil Present? ✓ Yes ☐ No



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 I	Davenport Section	n, Township, Range: Davenport
Landform: DRAINAGE		Local Relief:	✓ Concave ☐ Convex ☐ None Slope (%): 1
Subregion: Middle Atlantic	Latitu	de: 42.456724	Longitude: -74.89960 Datum: NAD 1983
Soil Map Unit Name: Deposit gra	velly silt loam		NWI Classification: Not mapped
Are climatic/hydrologic conditions o	n the site typical for this ti	me of year? Yes	☐ No (If no, explain in Remarks.)
Are Vegetation Soil or H	ydrology significantly	disturbed? V No	Are "Normal Circumstances" present? ✓ Yes No
Are Vegetation Soil or Hy	drology naturally pro	blematic? ✓ No (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS	- Attach site map	showing sampling po	nt locations, transects, important features, etc.
Hydrophytic Vegetation Present?	✓ Yes	Is the Sampled Ar	22
Hydric Soil Present?	✓ Yes	Is the Sampled Ar within a Wetland?	
Wetland Hydrology Present?	✓ Yes		
Remarks:			
Field Wetland Classification: PEM	1		
HYDROLOGY			
Wetland Hydrology Indicator			
Primary Indicators (minimum of one is re			Secondary Indicators (minimum of two required)
Surface Water (A1)		ed Leaves (B9)	Surface Soil Cracks (B6)
✓ High Water Table (A2)	Aquatic Fau	, ,	✓ Drainage Patterns (B10)
Saturation (A3)	Marl Deposi	ts (B15)	Moss Trim Lines (B16)
Water Marks (B1)	Hydrogen S	ulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	✓ Oxidized Rh	izospheres on Living Roots (C	_ ` '
Drift Deposits (B3)	Presence of	Reduced Iron (C4)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Recent Iron	Reduction in Tilled Soils (C6)	Stunted or Stressed Plants (D1)
☐ Iron Deposits (B5)	Thick Muck	Surface (C7)	Geomorphic Position (D2)
✓ Inundation Visible on Aerial Imager	y (B7) Other (Expla	in in Remarks)	Shallow Aquitard (D3)
Sparsely Vegetated Concave Surfa	ce (B8)		Microtopographic Relief (D4)
			FAC-Neutral Test (D5)
			Other (Explain in Remarks)
Field Observations:	v		
	Yes V No Depth (ii		
		nches): 0	W d
Saturation Present:	Yes No Depth (ii	nches): 0	Wetland Hydrology Present? ✓ Yes No
Describe Recorded Data (stream g	auge, monitoring well, ae	rial photos, previous inspe	ctions), if available:
Remarks:			

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	ī		ı	1
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
Herb Stratum				
Plot Size: 5 feet				
Scientific Name		% Cover	Dominant	Indicator
Carex crinita		45	YES	OBL
Ranunculus acris		40	YES	FAC
Trifolium repens		5	NO	FACU
	Total Cover:	90		
Vine Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator

Numbe that are Total N Species Percent	nance Test Wo r of Dominant Speci e OBL, FACW, or FA umber of Dominant s Across All Strata: t of Dominant Speci L, FACW, or FAC:	cies AC:	2_(A))		Total 9 OBL S FACW FAC S FACU UPL S	alence Index W 6 Cover of: pecies: Species: pecies: Species: pecies: n Totals:		tiply by: 45 0 120 20 0 185 (B)
Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is > 50% 3 - Prevalance is ≤ 3.0 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.							ophytic Vegetat	-	✓ Yes □ No
Remark	s:								
SOIL	Description: (De)oscrik	oe to the dent	h neede	d to do	Sument:	the indicator or o	confirm the abso	nce of indicators)
Profile	1	escrik	_			cument	the indicator or o	confirm the abse	nce of indicators.)
	Description: (De Matrix	escrik %	_	h neede dox Featu %		Loc ²	the indicator or o	confirm the abse	nce of indicators.)
Profile Depth	Matrix		Rec	dox Featu	ıres	1		confirm the abse	·
Profile Depth (in.)	Matrix Color (Moist)	%	Red Color (Moist)	dox Featu %	Type 1	Loc ²	Texture	confirm the abse	·
Profile Depth (in.) 0-5 5-15	Matrix Color (Moist) 2.5Y 3/2 10YR 4/2	% 95 89	Rec Color (Moist) 10YR 3/4	5 11	Type 1 C C	PL M,PL	Texture FINE SANDY LOAM FINE SANDY LOAM		Remarks
Profile Depth (in.) 0-5 5-15	Matrix Color (Moist) 2.5Y 3/2	% 95 89 D=Depl	Rec Color (Moist) 10YR 3/4	5 11	Type 1 C C	PL M,PL	Texture FINE SANDY LOAM FINE SANDY LOAM	Grains. ² Loc	·

Restrictive Layer Present (if present):	
Туре:	Hydric Soil Present? ✓ Yes ☐ No
Depth (inches):	nyunc son Fresent? • Tes - No
Remarks:	



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

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: Oneo	nta	Section	on, Township, Range: Franklin
Landform:		Loc	cal Relief:	☐ Concave ☐ Convex ☐ None Slope (%):
Subregion: Middle Atlantic	Latitu	ude: 42.41988	39	Longitude: -75.06151 Datum: NAD1983
Soil Map Unit Name: Onteora cha	annery silt loam, 0 to 3 pe	ercent slopes		NWI Classification:
Are climatic/hydrologic conditions o	n the site typical for this t	ime of year?	✓ Yes	☐ No (If no, explain in Remarks.)
Are Vegetation Soil or H	ydrology significantly	disturbed?	∕ No	Are "Normal Circumstances" present? ✓ Yes ☐ No
Are Vegetation Soil or Hy	vdrology	oblematic?	No	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS	S - Attach site map	showing sar	nplina pa	pint locations, transects, important features, etc.
Hydrophytic Vegetation Present?	☐ Yes ✓ No			
Hydric Soil Present?	✓ Yes No	Is the Sar within a V		
Wetland Hydrology Present?	✓ Yes No	within a v	venanu	
Remarks: ADJACENT TO DE-1P	-S059			
Field Wetland Classification: PFC)			
HYDROLOGY				
Wetland Hydrology Indicator	'S			
Primary Indicators (minimum of one is re	equired; check all that apply)			Secondary Indicators (minimum of two required)
Surface Water (A1)		ned Leaves (B9)		Surface Soil Cracks (B6)
High Water Table (A2)	☐ Aquatic Fau			✓ Drainage Patterns (B10)
Saturation (A3)	☐ Marl Depos			Moss Trim Lines (B16)
Water Marks (B1)		Sulfide Odor (C1)	vina Dooto (Dry-Season Water Table (C2)
Sediment Deposits (B2)		nizospheres on Li [.] f Reduced Iron (C		Graynon Barrono (GG)
☐ Drift Deposits (B3)		Reduction in Tille	'	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Surface (C7)	00.00 (00)	Stunted or Stressed Plants (DT)
☐ Iron Deposits (B5)☐ Inundation Visible on Aerial Imager		ain in Remarks)		Geomorphic Position (D2)
Sparsely Vegetated Concave Surfa	, (5.)	am in realitation		Shallow Aquitard (D3)
Oparsely vegetated concave ouria	ce (bo)			Microtopographic Relief (D4)
				FAC-Neutral Test (D5)
				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 g	auge, monitoring well, ae	erial photos, pre	evious insp	ections), if available:
Remarks:				

Tree Stratum					
Plot Size: 30 f	eet				
Scientific Name			% Cover	Dominant	Indicator
Quercus rubra			40	YES	FACU
Quercus prinus			25	YES	UPL
Acer saccharum			15	NO	FACU
		Total Cover:	80		
Sapling Stratum					
Plot Size: 15 f Scientific Name	eet		% Cover	Dominant	Indicator
Fagus grandifolia			10	YES	FACU
		Total Cover:	10		
Shrub Stratum					
Plot Size: 15	5 feet		i	i	ı
Scientific Name			% Cover	Dominant	Indicator
Betula lenta			5	YES	FACU
		Total Cover:	5	1	*
Herb Stratum					
Plot Size: 5 f Scientific Name	eet		% Cover	Dominant	Indicator
Osmunda cinnamo	mea		40	YES	FACW
Sphagnum sp.			75	NA	NONE
		Total Cover:	115		
Vine Stratum					
Plot Size: 30 f	eet				
Scientific Name			% Cover	Dominant	Indicator
		Total Cover:			

Domir	nance Test Work	ksheet:				Prevale	nce Index	Workshe	et:		
	of Dominant Species		4 (4			Total % C	over of:		Mu	Itiply by:	=
	OBL, FACW, or FACumber of Dominant	<i>-</i> :	1 (A	A)		OBL Spec	ies:	0	x 1 =	0	
	Across All Strata:		5 (B	3)		FACW Sp	ecies:	40	x 2 =	80	_
	of Dominant Species	s that				FAC Spec		0	x 3 =	0	_
are OBL	_, FACW, or FAC:		20 (A	√B)		FACU Spe	-	70	x 4 =	280	_
						UPL Spec	ies:	25	x 5 =	125	=
						Column To	otals:	135	(A)	485	_ (B)
							Preva	lence Index :	= B/A =	3.59	_
Hydro	phytic Vegetation	on Indica	tors:								
1 - R	apid Test for Hydroph	hytic Vegeta	ation								
☐ 2 - D	2 - Dominance Test is > 50%					Hydroph	nytic Vege	etation Pre	esent?	☐ Yes 🔽	No
☐ 3 - P	revalance is ≤ 3.0										
	lorphological Adaptati in Remarks or on a s			orting							
✓ Prob	lematic Hydrophytic \	Vegetation ¹	(Explain))							
	tors of hydric soil and disturbed or problem		drology r	must be pre	esent						
Remarks											
SOIL											
SOIL	Description: (Des	scribe to t	he dept	th neede	d to doc	cument the	indicator o	or confirm	the abse	ence of indicat	ors.)
SOIL Profile	Description: (Des	scribe to t		th needed		cument the	indicator	or confirm	the abse	ence of indicat	ors.)
SOIL				dox Featu		cument the	indicator of Texture		the abse	ence of indicat	ors.)
SOIL Profile Depth (in.)	Matrix Color (Moist) %	6 Colo	Re r (Moist)	edox Featu	Type 1	Loc ²	Texture)		Remarks	ors.)
SOIL Profile Depth	Matrix Color (Moist) %		Re r (Moist)	dox Featu	ires	Loc ²)	the abse	Remarks	ors.)
SOIL Profile Depth (in.)	Matrix Color (Moist) %	6 Colo	Re r (Moist)	edox Featu	Type 1	Loc ²	Texture)		Remarks	ors.)
SOIL Profile Depth (in.) 0-16	Matrix Color (Moist) %	6 Colo	Re r (Moist) 4/6	edox Featu % 5	Type ¹	Loc² M SIL	Texture T LOAM	ANI	O 5% 10YR :	Remarks	
SOIL Profile Depth (in.) 0-16	Matrix Color (Moist) % 7.5YR 4/2 9	6 Colo	Re r (Moist) 4/6	edox Featu % 5	Type ¹	Loc² M SIL	Texture T LOAM	ANI ANI and Grains.	2 Loc	Remarks 2/1	ining, M=Matrix.
SOIL Profile Depth (in.) 0-16	Matrix Color (Moist) % 7.5YR 4/2 9 C=Concentration, D=	6 Colo	Re r (Moist) 4/6 RM=Redu	sedox Featu % 5 uced Matrix	Type 1 C x, CS=Co	Loc² M SIL	Texture T LOAM or Coated Sa	ANI ANI and Grains.	2 Locators for	Remarks 2/1 cation: PL=Pore I	ining, M=Matrix. ydric Soils
SOIL Profile Depth (in.) 0-16	Matrix Color (Moist) % 7.5YR 4/2 9 C=Concentration, D= C Soil Indicators:	6 Colo	Re r (Moist) 4/6 RM=Redu	sdox Featu % 5 uced Matrix	Type 1 C x, CS=Cc	Loc² M SIL overed Sand	Texture T LOAM or Coated So	ANI and Grains. Indica	2 Locators for Muck (A10)	Remarks 2/1 cation: PL=Pore I Problematic H	ining, M=Matrix. ydric Soils 149B)
SOIL Profile Depth (in.) 0-16 Type: Hydric Hist	Matrix Color (Moist) % 7.5YR 4/2 9 C=Concentration, D= C Soil Indicators:	6 Colo	Re r (Moist) 4/6 RM=Redu	bdox Feature % 5 uced Matrix blyvalue Belovin Dark Surfa	Type 1 C x, CS=Co	Loc² M SIL overed Sand (S8) (LRR R, N	Texture T LOAM or Coated So	ANI ANI and Grains. Indica 2 cr Coa	2 Loc tors for m Muck (A10 ast: Prairie F	Remarks 2/1 cation: PL=Pore I Problematic H 0) (LRR K, L, MLRA	Lining, M=Matrix. ydric Soils 149B) , L, R)
SOIL Profile Depth (in.) 0-16 1 Type: Hydric Hist Blace	Matrix Color (Moist) % 7.5YR 4/2 9 C=Concentration, D= C Soil Indicators: tosol (A1) tic Epipedon (A2)	6 Colo	Re r (Moist) 4/6 RM=Redu Pol Thi	bdox Feature % 5 uced Matrix blyvalue Belovin Dark Surfa	Type 1 C x, CS=Cc w Surface ace (S9) (L Mineral (F1	Loc² M SIL overed Sand (S8) (LRR R, N LRR R, MLRA 1) (LRR K, L)	Texture T LOAM or Coated So	ANI and Grains. Indica 2 cr Coa 5 cr	² Loc tors for m Muck (A10 ast: Prairie F m Mucky Pe	Remarks 2/1 cation: PL=Pore I Problematic H 0) (LRR K, L, MLRA Redox (A16) (LRR K	Lining, M=Matrix. ydric Soils 149B) , L, R)
SOIL Profile Depth (in.) 0-16 Hydric Hist Blace Hyd	Matrix Color (Moist) % 7.5YR 4/2 9 C=Concentration, D= C Soil Indicators: tosol (A1) tic Epipedon (A2) ck Histic (A3)	6 Colo	Rer (Moist) 4/6 RM=Redu Pol Thi Loa	sedox Featu % 5 uced Matrix olyvalue Belo in Dark Surfa amy Mucky N	Type 1 C x, CS=Cc w Surface ace (S9) (L Mineral (F1 Matrix (F2	Loc² M SIL overed Sand (S8) (LRR R, N LRR R, MLRA 1) (LRR K, L)	Texture T LOAM or Coated So	ANI ANI and Grains. Indica 2 cr Coa 5 cr	² Locators for last: Prairie For Mucky Pe k Surface (S	Remarks 2/1 cation: PL=Pore I Problematic H 0) (LRR K, L, MLRA Redox (A16) (LRR K eat or Peat (S3) (LRI	Lining, M=Matrix. ydric Soils 149B) , L, R) R K, L, R)
SOIL Profile Depth (in.) 0-16 1 Type: Hydric Hist Hist Blac Hyd	Matrix Color (Moist) % 7.5YR 4/2 9 C=Concentration, D= C Soil Indicators: cosol (A1) dic Epipedon (A2) ck Histic (A3) drogen Sulfide (A4)	Colo 7.5YR Depletion,	Rer (Moist) 4/6 RM=Redu Pol Thi Loa Loa Pel Rer	uced Matrix blyvalue Belo in Dark Surfa amy Mucky N amy Gleyed epleted Matrix dox Dark Su	Type 1 C x, CS=Co w Surface ace (S9) (L Mineral (F1 Matrix (F2 x (F3) urface (F6)	Loc² M SIL overed Sand (S8) (LRR R, N LRR R, MLRA 1) (LRR K, L)	Texture T LOAM or Coated So	ANI ANI And Grains. Indica 2 cr Coa 5 cr Dar Poly	² Locators for In Muck (A1) ast: Prairie For Mucky Pek Surface (Syvalue Belov	Remarks 2/1 Cation: PL=Pore I Problematic H 0) (LRR K, L, MLRA Redox (A16) (LRR K eat or Peat (S3) (LRI S7) (LRR K, L, M)	Lining, M=Matrix. ydric Soils 149B) , L, R) R K, L, R)
SOIL Profile Depth (in.) 0-16 Type: Hydric Hist Hist Blac Hyd Stra Dep	Matrix Color (Moist) % 7.5YR 4/2 9 C=Concentration, D= C Soil Indicators: cosol (A1) cic Epipedon (A2) ck Histic (A3) lrogen Sulfide (A4) attified Layers (A5)	Colo 7.5YR Depletion,	Rer (Moist) 4/6 RM=Redu Pol Thi Loa V De Rea	uced Matrix blyvalue Belo in Dark Surfa amy Mucky N amy Gleyed epleted Matrix edox Dark Su	Type 1 C x, CS=Co w Surface ace (S9) (I Mineral (F1 Matrix (F2 x (F3) urface (F6) Surface (F6)	Loc² M SIL overed Sand (S8) (LRR R, N LRR R, MLRA 1) (LRR K, L)	Texture T LOAM or Coated So	ANI ANI ANI Indica 2 cr Coa 5 cr Dar Poly	² Loc tors for last: Prairie For Mucky Pe k Surface (Sovalue Below n Dark Surfa	Remarks 2/1 cation: PL=Pore I Problematic H 0) (LRR K, L, MLRA Redox (A16) (LRR K eat or Peat (S3) (LRI S7) (LRR K, L, M) w Surface (S8) (LRR ace (S9) (LRR K, L)	Lining, M=Matrix. ydric Soils 149B) , L, R) R K, L, R)
SOIL Profile Depth (in.) 0-16 Type: Hydric Hist Blac Hyd Stra Dep	Matrix Color (Moist) % 7.5YR 4/2 9 C=Concentration, D= C Soil Indicators: Cosol (A1) Cic Epipedon (A2) Ck Histic (A3) Clorogen Sulfide (A4) Ck Histic (A5) Ck Histic (A3)	Colo 7.5YR Depletion,	Rer (Moist) 4/6 RM=Redu Pol Thi Loa Loa Pel Ree Re	edox Featu % 5 uced Matrix ulyvalue Belo in Dark Surfa amy Mucky I amy Gleyed epleted Matrix edox Dark Su epleted Dark edox Depress	Type 1 C x, CS=Cc w Surface ace (S9) (I Mineral (F1 Matrix (F2 x (F3) urface (F6) Surface (F8)	Loc² M SIL overed Sand (S8) (LRR R, N LRR R, MLRA 1) (LRR K, L) 2)	Texture T LOAM or Coated So	ANI ANI And Grains. Indica 2 cr Coa 5 cr Dar Poly Iron	² Loc tors for Muck (A10 ast: Prairie F m Mucky Pe k Surface (S yvalue Belov n Dark Surfa	Remarks 2/1 Cation: PL=Pore I Problematic H 0) (LRR K, L, MLRA Redox (A16) (LRR K eat or Peat (S3) (LRI S7) (LRR K, L, M) w Surface (S8) (LRR ace (S9) (LRR K, L) e Masses (F12) (LR	uining, M=Matrix. ydric Soils 149B) , L, R) R K, L, R) R K, L, R)
SOIL Profile Depth (in.) 0-16 Type: Hist Hist Hist Hist Hist Blace Hyd Stra Dep	Matrix Color (Moist) % 7.5YR 4/2 9 C=Concentration, D= C Soil Indicators: Cosol (A1) Cic Epipedon (A2) Ck Histic (A3) Crogen Sulfide (A4) Ck Histic (A5) Ck Dark Surface (A12)	Colo 7.5YR Depletion,	Rer (Moist) 4/6 RM=Redu Pol Thi Loa Loa Pel Ree Re	uced Matrix blyvalue Belo in Dark Surfa amy Mucky N amy Gleyed epleted Matrix edox Dark Su	Type 1 C x, CS=Cc w Surface ace (S9) (I Mineral (F1 Matrix (F2 x (F3) urface (F6) Surface (F8)	Loc² M SIL overed Sand (S8) (LRR R, N LRR R, MLRA 1) (LRR K, L) 2)	Texture T LOAM or Coated So	ANI ANI ANI And Grains. Indica 2 cr Coa 5 cr Dar Poly Thir Iron Piec	² Loc tors for m Muck (A10 ast: Prairie F m Mucky Pe k Surface (S yvalue Belov n Dark Surfa -Manganese dmont Flood	Remarks 2/1 Cation: PL=Pore I Problematic H 0) (LRR K, L, MLRA Redox (A16) (LRR K eat or Peat (S3) (LRF S7) (LRR K, L, M) w Surface (S8) (LRF ace (S9) (LRR K, L) e Masses (F12) (LR dplain Soils (F19) (M	Lining, M=Matrix. ydric Soils .149B) , L, R) R K, L, R) R K, L, R) R K, L, R) ILRA 149B)
SOIL Profile Depth (in.) 0-16 Hydric Hist Hist Hist Hyd Stra Dep Thic San San	Matrix Color (Moist) % 7.5YR 4/2 9 C=Concentration, D= C Soil Indicators: tosol (A1) tic Epipedon (A2) tic Epipedon (A2) tic Histic (A3) trogen Sulfide (A4) atified Layers (A5) bleted Below Dark Surface tick Dark Surface (A12) tidy Mucky Mineral (S1)	Colo 7.5YR Depletion,	Rer (Moist) 4/6 RM=Redu Pol Thi Loa Loa Pel Ree Re	edox Featu % 5 uced Matrix ulyvalue Belo in Dark Surfa amy Mucky I amy Gleyed epleted Matrix edox Dark Su epleted Dark edox Depress	Type 1 C x, CS=Cc w Surface ace (S9) (I Mineral (F1 Matrix (F2 x (F3) urface (F6) Surface (F8)	Loc² M SIL overed Sand (S8) (LRR R, N LRR R, MLRA 1) (LRR K, L) 2)	Texture T LOAM or Coated So	ANI ANI ANI ANI Indica 2 cr Coa 5 cr Dar Poly Thir Iron Piec	² Loc tors for m Muck (A10 ast: Prairie F m Mucky Pe k Surface (S yvalue Belov n Dark Surfa -Manganese dmont Flood	Remarks 2/1 Cation: PL=Pore I Problematic H 0) (LRR K, L, MLRA Redox (A16) (LRR K eat or Peat (S3) (LRI S7) (LRR K, L, M) w Surface (S8) (LRR ace (S9) (LRR K, L) e Masses (F12) (LR dplain Soils (F19) (M TA6) (MLRA 144A,	Lining, M=Matrix. ydric Soils .149B) , L, R) R K, L, R) R K, L, R) R K, L, R) ILRA 149B)

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

Dark Surface (S7) (LRR R, MLRA 149B)

Very Shallow Dark Surface (TF12)

Other (Explain in Remarks)

Restrictive Layer Present (if present):	
Туре:	Hydric Soil Present? ✓ Yes □ No
Depth (inches):	Hydric Soil Present? ✓ Yes □ No
Remarks:	



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

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	on, 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 po	oint locations, transects, important features, etc.
Hydrophytic Vegetation Present? ☐ Yes ✓ No	***
Hydric Soil Present?	
Wetland Hydrology Present? ☐ Yes ✓ No	•
Remarks: UPLAND PLOT 4" SNOW	
Field Wetland Classification:	
HYDROLOGY	
Wetland Hydrology Indicators Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Water Stained Leaves (B9) High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) Marl Deposits (B15) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C1) Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B5) Thick Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8)	Saturation Visible on Aerial Imagery (C9)
Field Observations: Surface Water Present:	Wetland Hydrology Present? ☐ Yes ✓ No ections), if available:

Tree Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
Acer saccharum		10	NO	FACU
Quercus rubra		60	YES	FACU
Prunus serotina		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
Fagus grandifolia		30	YES	FACU
Vaccinium angustifolium		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:			

Number of Dominant Species that are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species that are OBL, FACW, or FAC: O (A) Total Number of Dominant Species Across All Strata: 3 (B) Percent of Dominant Species that are OBL, FACW, or FAC: O (A/B) Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is > 50% 3 - Prevalance is ≤ 3.0 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic. Remarks:				Prevalence Index Worksheet: Total % Cover of: Multiply by: OBL Species: 0 x1 = 0 FACW Species: 0 x2 = 0 FAC Species: 0 x3 = 0 FACU Species: 115 x4 = 460 UPL Species: 0 x5 = 0 Column Totals: 115 (A) 460 (B) Prevalence Index = B/A = 4.00					
SOIL Profile	e Description: (D	Descrik	pe to the depti	n neede	d to doc	cument t	the indicator or	confirm the abs	ence of indicators.)
Depth	Matrix			lox Featu					,
(in.)	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²	Texture		Remarks
0-1	10YR 2/2	60							
							LOAM		
1-18	7.5YR 4/4	100					SILT LOAM		
	7.5YR 4/4 C=Concentration, I		etion, RM=Redu	ced Matri	x, CS=Co	overed Sa	SILT LOAM	d Grains. ² Lo	cation: PL=Pore Lining, M=Matrix.
¹ Type:	,	D=Depl	etion, RM=Redu	ced Matri	x, CS=Co	overed Sa	SILT LOAM		cation: PL=Pore Lining, M=Matrix. Problematic Hydric Soils

Restrictive Layer Present (if present):					
Туре:		Uvdria Cail Brasant?	□ Yes	✓ No	
Depth (inches):		Hydric Soil Present?		▼ NO	
Remarks:	L				



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

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: Unadil	la	Section	n, Township, Range: Sidney
Landform: Hillside		Loc	cal Relief:	✓ Concave ☐ Convex ☐ None Slope (%): 8
Subregion: Middle Atlantic	Latitu	de: 42.28986	66	Longitude: -75.35009 Datum: NAD 1983
Soil Map Unit Name: Halcott, Mo	ongaup, and Vly soils, 15 to	o 35 percent s	lopes, very	rocky NWI Classification: Not Mapped
Are climatic/hydrologic conditions of	on the site typical for this ti	me of year?	✓ Yes	☐ No (If no, explain in Remarks.)
Are Vegetation Soil or H	lydrology significantly	disturbed?	No	Are "Normal Circumstances" present? ✓ Yes ✓ No
Are Vegetation Soil or Hy	ydrology 🔲 naturally pro	oblematic?	No	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS	S - Attach site map	showing sar	npling po	int locations, transects, important features, etc.
Hydrophytic Vegetation Present?	✓ Yes	Is the Sar	mpled A	702
Hydric Soil Present?	✓ Yes	within a \		
Wetland Hydrology Present?	✓ Yes			
Remarks:				
Field Wetland Classification: PEN	Л			
HYDROLOGY				
Wetland Hydrology Indicator	rs			
Primary Indicators (minimum of one is r				Secondary Indicators (minimum of two required)
Surface Water (A1)		ed Leaves (B9)		Surface Soil Cracks (B6)
✓ High Water Table (A2)	☐ Aquatic Fau ☐ Marl Deposi			Drainage Patterns (B10)
Saturation (A3)	_	ulfide Odor (C1)		Moss Trim Lines (B16)
Water Marks (B1)		izospheres on Li	vina Roots ((Dry-Season Water Table (C2)
Sediment Deposits (B2)		Reduced Iron (C		Orayiish Barrows (00)
Drift Deposits (B3) Algal Mat or Crust (B4)		Reduction in Tille	•	Saturation Visible on Aerial Imagery (C9)
Iron Deposits (B5)	☐ Thick Muck	Surface (C7)		Stunted or Stressed Plants (D1)
Inundation Visible on Aerial Imager	ry (B7) Other (Expla	ain in Remarks)		Geomorphic Position (D2)
Sparsely Vegetated Concave Surfa	· · ·			Shallow Aquitard (D3)
				
				Other (Explain in Remarks)
				Unter (Explain in Nemarks)
Field Observations:				
	Yes V No Depth (i	nches):		
		nches): 3		
Saturation Present:	Yes No Depth (i	nches): 0		Wetland Hydrology Present? ✓ Yes □ No
Describe Recorded Data (stream g	gauge, monitoring well, ae	rial photos, pre	evious inspe	ections), if available:
Remarks:				

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		1	ı	ı
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
Herb Stratum				
Plot Size: 5 feet				
Scientific Name		% Cover	Dominant	Indicator
Scirpus cyperinus		20	YES	OBL
Euthamia graminifolia		30	YES	FAC
Solidago gigantea		10	NO	FACW
Carex Iurida		15	NO	OBL
Agrostis gigantea		5	NO	FACW
Onoclea sensibilis		10	NO	FACW
Spiraea alba		5	NO	FACW
Eupatorium perfoliatum		2	NO	FACW
Epilobium coloratum		3	NO	OBL
	Total Cover:	100	I	
Vine Stratum				1
Plot Size: 30 feet				
		% Cover	Dominant	Indicator

Dominance Test Workshee' Number of Dominant Species that are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species that are OBL, FACW, or FAC:	2 (A) 2 (B) 100 (A/B)	Prevalence Ind Total % Cover of: OBL Species: FACW Species: FAC Species: FACU Species: UPL Species: Column Totals:	38 32 30 0 0 100 evalence Index	Mul x 1 = x 2 = x 3 = x 4 = x 5 = (A)	192 1.92	- - - - - - (B)
Hydrophytic Vegetation Ind 1 - Rapid Test for Hydrophytic Ve 2 - Dominance Test is > 50% 3 - Prevalance is ≤ 3.0 4 - Morphological Adaptations¹ (P data in Remarks or on a separate Problematic Hydrophytic Vegetat ¹Indicators of hydric soil and wetlan unless disturbed or problematic.	getation rovide supporting sheet) ion¹ (Explain)	Hydrophytic Ve	egetation Pre	esent?	✓ Yes □	No
Remarks:						

SOIL

Depth	Matrix		Redo	x Feat	ures			
(in.)	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²	Texture	Remarks
0-1	2.5Y 3/2	100				None	LOAM	
1-3	2.5Y 5/1	95	7.5YR 4/6	5	С	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:		Indicators for Problematic Hydric Soils
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 14)	□ Polyvalue Below Surface (S8) (LRR R, MLRA 149B) □ Loamy Mucky Mineral (F1) (LRR K, L) ☑ Loamy Gleyed Matrix (F2) □ Depleted Matrix (F3) □ Redox Dark Surface (F6) □ Depleted Dark Surface (F7) □ Redox Depressions (F8) □ Other (Explain in Remarks)	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)
		I
Restrictive Layer Present (if Type: Depth (inches):	present):	Hydric Soil Present? ✓ Yes ☐ No
Photos		
Photo Name: DE1CW158a	091213 WET1NWing Note:	DF-1C-W158A-WFT1

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, 7	Township, Range: Sidney
Landform: hillside Local Relief:	Concave Convex None Slope (%): 15
Subregion: Middle Atlantic Latitude: 42.289972 Lor	ongitude: -75.35012 Datum: NAD 1983
Soil Map Unit Name: Halcott, Mongaup, and Vly soils, 15 to 35 percent slopes, very room	cky 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 n	needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sampling point	t locations, transects, important features, etc.
Hydrophytic Vegetation Present? ☐ Yes ✓ No Is the Sampled Area	
Hydric Soil Present? Yes V No within a Wetland?	□ Yes ☑ No
Wetland Hydrology Present? ☐ Yes ✓ No	
Remarks: Upland plot	
Field Wetland Classification:	
HYDROLOGY	
Wetland Hydrology Indicators	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1)	Surface Soil Cracks (B6)
Made (14)	☐ Drainage Patterns (B10) ☐ Moss Trim Lines (B16)
Saturation (A3) Water Marks (B1) Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3)	Crayfish Burrows (C8)
Drift Deposits (B3) Presence of Reduced Iron (C4)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6)	Stunted or Stressed Plants (D1)
☐ Iron Deposits (B5) ☐ Thick Muck Surface (C7)	Geomorphic Position (D2)
☐ Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks)	Shallow Aquitard (D3)
Sparsely Vegetated Concave Surface (B8)	Microtopographic Relief (D4)
	FAC-Neutral Test (D5)
	Other (Explain in Remarks)
Field Observations:	
Surface Water Present: Yes V No Depth (inches):	
Water Table Present: ☐ Yes ✓ No Depth (inches):	
Saturation Present:	Wetland Hydrology Present? ☐ Yes ✓ No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection	ions), if available:
Remarks:	

Tree Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
Sapling Stratum				
Plot Size: 15 feet				
Scientific Name		% Cover	Dominant	Indicator
Quercus rubra		5	YES	FACU
Hamamelis virginiana		15	YES	FACU
	Total Cover:	20		
Shrub Stratum	Total Cover:	20		
Plot Size: 15 feet				
Scientific Name		% Cover	Dominant	Indicator
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		aioaioi
	Total Cover:		I	
Herb Stratum				
Plot Size: 5 feet				
Scientific Name		% Cover	Dominant	Indicator
Solidago canadensis		20	YES	FACU
Euthamia graminifolia		20	YES	FAC
Solidago rugosa		10	NO	FAC
Rhus typhina		5	NO	UPL
Rubus allegheniensis		10	NO	FACU
Phleum pratense		5	NO	FACU
Unknown grass		10	NO	NONE
	Total Cover:	80		
Vine Stratum		1		
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
	Total Cover:			

that are OBL, FACW, Total Number of Domi Species Across All Str Percent of Dominant S are OBL, FACW, or FA Hydrophytic Veg 1 - Rapid Test for H 2 - Dominance Test 3 - Prevalance is ≤ 4 - Morphological A data in Remarks or Problematic Hydrop Indicators of hydric s unless disturbed or pro	etation I ydrophytic is > 50% 3.0 daptations on a sepal	ndicators: Vegetation 1 (Provide supporrate sheet) etation1 (Explain) etation4 (Explain)) /B) rting	esent	Total 9 OBL S FACW FAC S FACU UPL S Colum	alence Index W 6 Cover of: pecies: Species: pecies: pecies: pecies: pecies: pecies: pecies: pecies: pecies: pecies:	Multiply by: $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
SOIL Profile Description	: (Descri	be to the dept	h neede	d to doc	cument:	the indicator or c	confirm the absence of indicators.)
Depth Matrix			dox Featu				
(in.) Color (Moist) %	Color (Moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4 10YR 3/3	100				None	LOAM	
	100		1				10% Gravel
4-16 10YR 4/4	100				None	LOAM	10% Gravel
1 Type: C=Concentrati		letion, RM=Redu	ced Matrix	x, CS=Co			10% Gravel
,	on, D=Dep	letion, RM=Redu	ced Matrix	x, CS=Co			10% Gravel

Restrictive Layer Present (if present):			
Туре:	Hydric Soil Present?	☐ Yes	✓ No
Depth (inches):	Tryunc 3011 Fresent:	□ 163	™ NO
Remarks:			



DE1CW158a_091213_UPL1NW.jpg Photo Name: Note: DE-1C-W158A-UPL1

Project/Site Constitution I	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: Unadil	la	Section	n, Township, Range: Sidney
Landform: Depression		Lo	cal Relief:	✓ Concave ☐ Convex ☐ None Slope (%): 2
Subregion: Middle Atlantic	Latitu	de: 42.28874	47	Longitude: -75.35494 Datum: NAD 1983
Soil Map Unit Name: Mongaup ch	nannery loam, 15 to 25 pe	ercent slopes		NWI Classification: Not Mapped
Are climatic/hydrologic conditions or	n the site typical for this ti	me of year?	✓ Yes	☐ No (If no, explain in Remarks.)
Are Vegetation ✓ Soil ☐ or Hy	drology significantly	disturbed?	No	Are "Normal Circumstances" present? ✓ Yes No
Are Vegetation Soil or Hy	drology naturally pro	blematic?	No	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS	S - Attach site map	showing sar	npling po	int locations, transects, important features, etc.
Hydrophytic Vegetation Present?	✓ Yes No			
Hydric Soil Present?	✓ Yes	Is the Sar within a \		
Wetland Hydrology Present?	✓ Yes	withina	welland:	
Remarks: Located at edge of over	rhead utility corridor.			
	•			
Field Wetland Classification: PEM	I			
HYDROLOGY				
Wetland Hydrology Indicator	s			
Primary Indicators (minimum of one is re	equired; check all that apply)			Secondary Indicators (minimum of two required)
Surface Water (A1)		ed Leaves (B9)		Surface Soil Cracks (B6)
High Water Table (A2)	☐ Aquatic Fau			Drainage Patterns (B10)
Saturation (A3)	Marl Deposi			Moss Trim Lines (B16)
Water Marks (B1)		ulfide Odor (C1)	vina Dooto //	Dry-Season Water Table (C2)
Sediment Deposits (B2)		izospheres on Li Reduced Iron (C		oraynon barrows (55)
☐ Drift Deposits (B3)		Reduction in Tille	-	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Surface (C7)	00 00110 (00)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)		ain in Remarks)		Geomorphic Position (D2)
☐ Inundation Visible on Aerial Imagery☐ Sparsely Vegetated Concave Surface	, (2.)	an in recinancy		Shallow Aquitard (D3)
Oparsely vegetated Concave Surface	ж (Бо)			Microtopographic Relief (D4)
				FAC-Neutral Test (D5)
				Other (Explain in Remarks)
Field Observations:				
Surface Water Present:	Yes 🗹 No Depth (i	nches):		
Water Table Present:	Yes 🗹 No Depth (i	nches):		
Saturation Present:	Yes No Depth (i	nches): 0		Wetland Hydrology Present? ✓ Yes No
Describe Recorded Data (stream g	auge, monitoring well, ae	rial photos, pre	evious inspe	ections), if available:
Remarks:				

Tree Stratum		1		
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		1	I	1
Scientific Name		% Cover	Dominant	Indicator
Spiraea alba		10	YES	FACW
	Total Cover:	10		
Herb Stratum				
Plot Size: 5 feet				
Scientific Name		% Cover	Dominant	Indicator
Solidago gigantea		20	YES	FACW
Solidago rugosa		25	YES	FAC
Persicaria sagittata		10	NO	OBL
Carex crinita		25	YES	OBL
Impatiens capensis		10	NO	FACW
Euthamia graminifolia		10	NO	FAC
	Total Cover:	100		
Vine Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
	Total Cover:			

that are Total No Species Percent	nance Test Worl of Dominant Species OBL, FACW, or FAC umber of Dominant s Across All Strata: of Dominant Species _, FACW, or FAC:	S (/ 	3)		Total 9 OBL S FACW FAC S FACU UPL S	alence Index V 6 Cover of: pecies: pecies: pecies: Species: pecies: pecies: pecies:		1ltiply by: 35 80 105 0 0 220 (B)
1 - R 2 - D 3 - P 4 - N data Prob	apid Test for Hydrople ominance Test is > 5 revalance is ≤ 3.0 dorphological Adaptate in Remarks or on a selematic Hydrophytic tors of hydric soil and disturbed or problem	hytic Vegetation 50% cions¹ (Provide suppo separate sheet) Vegetation¹ (Explain d wetland hydrology i)	resent	Hydro		ntion Present?	✓ Yes □ No
Remark	s:							
SOIL								
Profile	-				cument	the indicator or	confirm the abs	ence of indicators.)
Profile Depth	Matrix	Re	dox Feat	ıres	1		confirm the abs	·
Profile	Matrix Color (Moist) %	Re	dox Feat		Loc ²	the indicator or Texture	confirm the abs	ence of indicators.) Remarks
Profile Depth (in.)	Matrix Color (Moist) % 2.5Y 4/2 8	Re Color (Moist)	edox Feat	Type 1	Loc ²	Texture	confirm the abs	·
Profile Depth (in.) 0-14 14-18	Matrix Color (Moist) % 2.5Y 4/2 8 5Y 4/1 8	Re Color (Moist) 10YR 4/6 7.5YR 4/6	edox Featu % 15	Type ¹ C	Loc² M,PL M,PL	Texture LOAM CLAY LOAM		Remarks
Profile Depth (in.) 0-14 14-18	Matrix Color (Moist) % 2.5Y 4/2 8	Re Color (Moist) 10YR 4/6 7.5YR 4/6	edox Featu % 15	Type ¹ C	Loc² M,PL M,PL	Texture LOAM CLAY LOAM	d Grains. ² Lo	·

Restrictive Layer Present (if present):	
Туре:	Hydric Soil Present? ✓ Yes □ No
Depth (inches):	nyunc son Fresent? 🖭 Fes 🗆 No
Remarks:	



DE1CW158B_091313_WET1W.jpg Photo Name: Note: DE-1C-W158B-WET1

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: Unac	dilla	Section	on, Township, Range: Sidney
Landform: side slope		Lo	cal Relief:	☐ Concave ☐ Convex ✔ None Slope (%): 4
Subregion: Middle Atlantic	Latif	tude: 42.2888	31	Longitude: -75.35487 Datum: NAD 1983
Soil Map Unit Name: Mongaup	channery loam, 15 to 25 p	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 H	Hydrology significantl	y disturbed?	No	Are "Normal Circumstances" present? ✓ Yes ☐ No
Are Vegetation Soil or H	Hydrology	roblematic?	∠ No	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDING	iS - Attach site man	showing sar	mplina pa	pint locations, transects, important features, etc.
Hydrophytic Vegetation Present?	✓ Yes No			
Hydric Soil Present?	☐ Yes 🗸 No	Is the Sar within a	-	
Wetland Hydrology Present?	☐ Yes 🗸 No	withina	Welland	
Remarks: Upland plot. Located	at edge of overhead utility	corridor.		
Field Wetland Classification:				
HYDROLOGY				
Wetland Hydrology Indicato	ors			
Primary Indicators (minimum of one is	required; check all that apply	<u>)</u>		Secondary Indicators (minimum of two required)
Surface Water (A1)		ined Leaves (B9)		Surface Soil Cracks (B6)
High Water Table (A2)	☐ Aquatic Fa			Drainage Patterns (B10)
Saturation (A3)	Marl Depo			Moss Trim Lines (B16)
Water Marks (B1)		Sulfide Odor (C1) Rhizospheres on Li	ivina Booto (Dry-Season Water Table (C2)
Sediment Deposits (B2)		of Reduced Iron (C		Craylish Bullows (66)
Drift Deposits (B3)		n Reduction in Till	-	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		k Surface (C7)	00 000 (00	Stunted or Stressed Plants (D1)
Iron Deposits (B5)		olain in Remarks)		Geomorphic Position (D2)
☐ Inundation Visible on Aerial Image ☐ Sparsely Vegetated Concave Surf	S., (2.)	nam mr komanco)		Shallow Aquitard (D3)
Sparsery vegetated concave surf	ace (DO)			Microtopographic Relief (D4)
				FAC-Neutral Test (D5)
				Other (Explain in Remarks)
Field Observations:				
Surface Water Present:		(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, a	erial photos, pre	evious insp	ections), if available:
Remarks:				

	% Cover	Dominant	Indicator
Total Cover:			
Total Gover.			
	% Cover	Dominant	Indicator
Total Cover:			
	l	l	1
	% Cover	Dominant	Indicator
	2	NO	FACW
Total Cover:	2		
	% Cover	Dominant	Indicator
	5	NO	FACU
	30	YES	FAC
	30	YES	FACU
	5	NO	FACU
	25	YES	FACW
	5	NO	NONE
Total Cover:	100	<u> </u>	
	% Cover	Dominant	Indicator
		Total Cover:	

Dominance Test Worksheet Number of Dominant Species	-	Prevalence Ind	ex Workshe		tiply by:	=
that are OBL, FACW, or FAC: Total Number of Dominant	(A)	OBL Species:	0	x 1 =	0	_
Species Across All Strata:	3 (B)	FACW Species:	27	x 2 =	54	_
Percent of Dominant Species that	 -	FAC Species:	30	x 3 =	90	=
are OBL, FACW, or FAC:	67 (A/B)	FACU Species:	40	x 4 =	160	_
		UPL Species:	0	x 5 =	0	_
		Column Totals:	97	(A)	304	_ (B)
		Pre	evalence Index =	= B/A =	3.13	=
Hydrophytic Vegetation Indi 1 - Rapid Test for Hydrophytic Veg 2 - Dominance Test is > 50% 3 - Prevalance is ≤ 3.0 4 - Morphological Adaptations¹ (Prodata in Remarks or on a separate Problematic Hydrophytic Vegetations¹ Indicators of hydric soil and wetland unless disturbed or problematic.	ovide supporting sheet) on¹ (Explain)	Hydrophytic Ve	getation Pre	esent?	✓ Yes □	No
Remarks:						

SOIL

Depth	Matrix		Redox Features					
(in.)	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²	Texture	Remarks
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 Ind	icators:	Indicators for Problematic Hydric Soils
Thick Dark Surfa Sandy Mucky Mi Sandy Gleyed M Sandy Redox (S Stripped Matrix (Loamy Mucky Mineral (F1) (LRR IIII) e (A4) (A5) Dark Surface (A11) ace (A12) neral (S1) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Other (Explain in Remarks) 5)	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)
Restrictive La	yer Present (if present):	
	yer i resem (ii presem).	
Type:		Hydric Soil Present? ☐ Yes ☑ No
Depth (inches):		
Photos		
Photo Name:	DE1CW158B_091313_UPL1W.jpg	Note: DE-1C-W158B-UPL1

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: Unadi	lla	Section	n, Township, Range: Sidney
Landform: Drainage		Loc	cal Relief:	✓ Concave ☐ Convex ☐ None Slope (%): 3
Subregion: Middle Atlantic	Latitu	ıde: 42.28884	43	Longitude: -75.35472 Datum: NAD 1983
Soil Map Unit Name: Mongaup o	channery loam, 15 to 25 pe	ercent slopes		NWI Classification: Not Mapped
Are climatic/hydrologic conditions of	on the site typical for this ti	me of year?	✓ Yes	☐ No (If no, explain in Remarks.)
Are Vegetation ✓ Soil ☐ or H	lydrology significantly	disturbed?	No	Are "Normal Circumstances" present? ✓ Yes No
Are Vegetation Soil or Hy	ydrology naturally pro	oblematic?	No	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDING	S - Attach site map	showing sar	npling po	int locations, transects, important features, etc.
Hydrophytic Vegetation Present?	✓ Yes No			
Hydric Soil Present?	✓ Yes No	Is the Sar within a \		
Wetland Hydrology Present?	✓ Yes	withina	rvetianu	
Remarks: Use DE-1C-W158B-U	PL1 for representative upla	and plot. Locat	ed within o	verhead utility corridor.
Field Wetland Classification: PEN	Л			
HYDROLOGY				
Wetland Hydrology Indicato	rs			
Primary Indicators (minimum of one is r				Secondary Indicators (minimum of two required)
Surface Water (A1)		ed Leaves (B9)		Surface Soil Cracks (B6)
✓ High Water Table (A2)	☐ Aquatic Fau ☐ Marl Deposi			Drainage Patterns (B10)
Saturation (A3)	_	ulfide Odor (C1)		Moss Trim Lines (B16)
Water Marks (B1)		nizospheres on Li	vina Roots ((Dry-Season Water Table (C2)
Sediment Deposits (B2)		Reduced Iron (C		Craynon Barrows (86)
☐ Drift Deposits (B3) ☐ Algal Mat or Crust (B4)		Reduction in Tille	-	Saturation Visible on Aerial Imagery (C9)
Iron Deposits (B5)	☐ Thick Muck	Surface (C7)		Stunted or Stressed Plants (D1)
Inundation Visible on Aerial Image	ov (B7) Other (Expla	ain in Remarks)		Geomorphic Position (D2)
Sparsely Vegetated Concave Surfa				Shallow Aquitard (D3)
	,			Microtopographic Relief (D4)
				FAC-Neutral Test (D5)
				Other (Explain in Remarks)
Field Observations:				
	Yes V No Depth (i			
	<u> </u>	nches): 0		
Saturation Present:	Yes No Depth (i	nches): 0		Wetland Hydrology Present? ✓ Yes ☐ No
Describe Recorded Data (stream of	gauge, monitoring well, ae	rial photos, pre	evious inspe	ections), 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
Scirpus cyperinus		3	NO	OBL
Spiraea tomentosa		7	NO	FACW
Onoclea sensibilis		15	YES	FACW
Sphagnum sp.		15	YES	FACW
Persicaria sagittata		5	NO	OBL
Carex vulpinoidea		10	NO	OBL
Carex crinita		20	YES	OBL
Scirpus atrovirens		10	NO	OBL
Juncus effusus		10	NO	OBL
Carex scoparia		20	YES	FACW
	Total Cover:	115		
Vine Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			

Number that are Total N Species Percen	r of Dominant Spe OBL, FACW, or umber of Domina s Across All Strate t of Dominant Spe L, FACW, or FAC	ecies FAC: int a: ecies tha	4 (A)		Total 9 OBL S FACW FAC S FACU UPL S	Alence Index V Cover of: Species: Species: Species: Species: Species: Prevaler	58 57 0	Multi x 1 = x 2 = x 3 = x 4 = x 5 = (A)	58 114 0 0 0 172 (B)
1 - F 2 - C 3 - F 4 - N data Prot	pphytic Veget Rapid Test for Hyd Dominance Test is Prevalance is ≤ 3.0 Morphological Ada in Remarks or or Dematic Hydrophy stors of hydric soil disturbed or prob	drophytic s > 50% 0 aptations n a separ	Vegetation ' (Provide supporate sheet) etation¹ (Explain)	Ü	resent	Hydro	ophytic Vegeta		_	✓ Yes □ No
SOIL		(Dogorii	no to the dont	n naoda	d to do		the indicator or	oonfirm th	an abou	noo of indicators \
Depth	Matrix	Descri	1	lox Feat		Jullient	life indicator or	COMMINIC	ie abse	nce of indicators.)
(in.)	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²	Texture			Remarks
0-3	2.5Y 6/1	90	10YR 5/6	10	С	PL	SANDY LOAM			
3-16	2.5Y 6/2	80	10YR 5/6	20	С	M,PL	SANDY LOAM	W/gra	avel;rock	refusal @16"
¹ Type:	C=Concentration	ı, D=Dep	letion, RM=Redu	ced Matr	ix, CS=Co	overed Sa	and or Coated San	d Grains.	² Loca	ation: PL=Pore Lining, M=Matrix.
Hydri	c Soil Indicato	rs:						Indicato	ors for F	Problematic Hydric Soils
His Bla	tosol (A1) tic Epipedon (A2) ick Histic (A3) drogen Sulfide (A4) atified Layers (A5) pleted Below Dark S ck Dark Surface (A1 indy Mucky Mineral (3	2)	☐ Thin☐ Loa☐ Loa☐ ☐ Dep	n Dark Suri my Mucky my Gleyed bleted Matri lox Dark S	face (S9) (I Mineral (F Matrix (F2 ix (F3) urface (F6) Surface (F6)	LRR R, ML 1) (LRR K, 2)) =7)	*	2 cm I Coast 5 cm I Dark S Polyva Thin E	Muck (A10 : Prairie Re Mucky Pea Surface (S' alue Below Dark Surface Manganese) (LRR K, L, MLRA 149B) edox (A16) (LRR K, L, R) it or Peat (S3) (LRR K, L, R) 7) (LRR K, L, M) Surface (S8) (LRR K, L) ce (S9) (LRR K, L) Masses (F12) (LRR K, L, R) clain Soils (F19) (MLRA 149B)

Restrictive Layer Present (if present):	
Туре:	Hydric Soil Present? ✓ Yes ☐ No
Depth (inches):	nyunc son Fresent? ■ res □ No
Remarks:	,



DE1CW158C_091313_WET1E.jpg Photo Name: Note: DE-1C-W158C-WET1

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: Oneor	ita	Section	on, Township, Range: Franklin
Landform: Drainageway		Lo	cal Relief:	✓ Concave ☐ Convex ☐ None Slope (%): 3
Subregion: Middle Atlantic	Latitu	de: 42.40405	53	Longitude: -75.09146 Datum: NAD1983
Soil Map Unit Name: Morris flagg	gy silt loam, 8 to 15 percer	nt slopes		NWI Classification: Not Mapped
Are climatic/hydrologic conditions o	n the site typical for this ti	me of year?	✓ Yes	☐ No (If no, explain in Remarks.)
Are Vegetation Soil or H	ydrology _ significantly	disturbed?	No	Are "Normal Circumstances" present? ✓ Yes ☐ No
Are Vegetation Soil or Hy	drology naturally pro	blematic?	No	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS	3 - Attach site map	showing sar	npling po	oint locations, transects, important features, etc.
Hydrophytic Vegetation Present?	✓ Yes	Is the Sai	mpled A	roa
Hydric Soil Present?	✓ Yes	within a \		
Wetland Hydrology Present?	✓ Yes			
Remarks:		I		
Field Wetland Classification: PEN	1			
HYDROLOGY				
Wetland Hydrology Indicator	'S			
Primary Indicators (minimum of one is re	equired; check all that apply)			Secondary Indicators (minimum of two required)
Surface Water (A1)		ed Leaves (B9)		Surface Soil Cracks (B6)
✓ High Water Table (A2)	Aquatic Fau			✓ Drainage Patterns (B10)
Saturation (A3)	Marl Deposit			Moss Trim Lines (B16)
Water Marks (B1)	✓ Oxidized Rh	ulfide Odor (C1)	vina Poots (Dry-Season Water Table (C2)
Sediment Deposits (B2)		Reduced Iron (C		Graynon Barrono (GG)
Drift Deposits (B3)		Reduction in Tille	,	Saturation Visible on Aerial Imagery (C9)
☐ Algal Mat or Crust (B4)☐ Iron Deposits (B5)	Thick Muck			Stunted or Stressed Plants (D1)
Inundation Visible on Aerial Imager		in in Remarks)		Geomorphic Position (D2)
Sparsely Vegetated Concave Surfa	, (5.)	,		Shallow Aquitard (D3)
	()			Microtopographic Relief (D4)
				FAC-Neutral Test (D5)
				Other (Explain in Remarks)
Field Observations:				
	Yes V No Depth (in	nches):		
Water Table Present:	Yes No Depth (ii	nches): 2		
Saturation Present:	Yes No Depth (ii	nches): 0		Wetland Hydrology Present? ✓ Yes No
Describe Recorded Data (stream g	auge, monitoring well, ae	rial photos, pre	evious insp	ections), if available:
Remarks:				

REGETATION				
Tree Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
Pinus strobus		20	YES	FACU
Salix nigra		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		1	1	I
Scientific Name		% Cover	Dominant	Indicator
Spiraea tomentosa		5	YES	FACW
	Total Cover:	5		l
Herb Stratum				
Plot Size: 5 feet				
Scientific Name		% Cover	Dominant	Indicator
Scirpus cyperinus		25	YES	OBL
Solidago gigantea		20	YES	FACW
Solidago rugosa		15	NO	FAC
Onoclea sensibilis		10	NO	FACW
Impatiens capensis		10	NO	FACW
Juncus effusus		10	NO	OBL
Carex Iurida		5	NO	OBL
Euthamia graminifolia		5	NO	FAC
	Total Cover:	100		
Vine Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:		I	

Numbe that are Total N Species Percent are OB	nance Test W r of Dominant Spe OBL, FACW, or l umber of Dominant s Across All Strata t of Dominant Spe L, FACW, or FAC ophytic Veget apid Test for Hyd ominance Test is	ecies FAC: nt a: ecies tha :	4 (A) 5 (B) 80 (A))		Total 9 OBL S FACW FAC S FACU UPL S Colum		Mul 45	tiply by: 45 90 60 80 0 275 2.12 ✓ Yes □ No
✓ 3 - Prevalance is ≤ 3.0 ✓ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) ✓ Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.					sent	Hydrophytic Vegetation Present?			
SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth	Matrix		Redox Features					Remarks	
(in.)	Color (Moist)	%	Color (Moist)		Type ¹	Loc ²	Texture		
0-6 6-18	7.5YR 4/3 7.5YR 4/2	97 95	7.5YR 4/6 7.5YR 4/6	3 5	С	PL M,PL	CLAY LOAM	W/organic mat	erial
¹ Type:	C=Concentration	, D=Dep	letion, RM=Redu	ced Matrix	, CS=Co	overed Sa	nnd or Coated Sar	nd Grains. ² Loc	ation: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: Indicators for Problematic Hydric Soils									
His	c Soil Indicator	s:						Indicators for I	<u> </u>

Restrictive Layer Present (if present):			
Туре:	Hydric Soil Present?	✓ Yes	□ No
Depth (inches):	Tryunc 3011 Fresent:	<u> </u>	
Remarks:	1		



DE1CW329_081613_WET1SW.jpg Photo Name: Note: DE-1C-W329-WET1

Project/Site Constitution I	Milepost 70.9	City/County: Dela	ware	Sampling Date: 2	2013/08/16
Applicant/Owner: Williams		State: NY		Sampling Point: DE-1C-\	W329-UPL1
Investigator(s): RR;KH	USGS Quad: Oneo	nta S	Section, Township	, Range: Franklin	
Landform: Knoll		Local Re	elief: Concave	e Convex None	Slope (%): 3
Subregion: Middle Atlantic	Latit	ude: 42.404095	Longitude:	-75.09138 Datum:	NAD1983
Soil Map Unit Name: Morris flagg	y silt loam, 8 to 15 perce	nt slopes		NWI Classification: No	t Mapped
Are climatic/hydrologic conditions or	n the site typical for this t	ime of year? 🗸 Y	es No (If no, explain in Remarks.)	
Are Vegetation Soil or Hy	drology significantly	disturbed? V No	Are "Norn	mal Circumstances" present?	✓ Yes
Are Vegetation Soil or Hy	drology naturally pr	oblematic? V No	(If needed, e	explain any answers in Remark	ks.)
SUMMARY OF FINDINGS	- Attach site map	showing samplin	g point locatio	ns, transects, important	features, etc.
Hydrophytic Vegetation Present?	☐ Yes 🗸 No	le the Comple	-l Au-a-		
Hydric Soil Present?	☐ Yes 🗸 No	Is the Sample within a Wetla		☐ Yes ✓ No	
Wetland Hydrology Present?	☐ Yes 🗸 No	within a wette	aliu:		
Remarks: Upland plot					
Field Wetland Classification:					
HYDROLOGY					
Wetland Hydrology Indicator	S				
Primary Indicators (minimum of one is re				Secondary Indicators (minimum o	of two required)
Surface Water (A1)		ned Leaves (B9)		Surface Soil Cracks (B6)	
☐ High Water Table (A2)	Aquatic Fat			Drainage Patterns (B10)	
Saturation (A3)	☐ Marl Depos			Moss Trim Lines (B16)	
Water Marks (B1)		Sulfide Odor (C1) hizospheres on Living Ro	note (C2)	Dry-Season Water Table (C	2)
Sediment Deposits (B2)		f Reduced Iron (C4)	00is (C3)	Crayfish Burrows (C8)	
☐ Drift Deposits (B3)		Reduction in Tilled Soils	s (C6)	Saturation Visible on Aerial I	• , ,
Algal Mat or Crust (B4)		Surface (C7)	0 (00)	Stunted or Stressed Plants ((D1)
Iron Deposits (B5)		ain in Remarks)		Geomorphic Position (D2)	
☐ Inundation Visible on Aerial Imagery☐ Sparsely Vegetated Concave Surface	(2.)	an in remarks)		Shallow Aquitard (D3)	
Sparsely vegetated Concave Sunat	,е (во)			Microtopographic Relief (D4))
				FAC-Neutral Test (D5)	
				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):	Wetla	nd Hydrology Present?	☐ Yes 🗸 No
Describe Recorded Data (stream g	auge, monitoring well, as	erial photos, previous	inspections), if av	/ailable:	
Remarks:					

Tree Stratum				
Plot Size: 30 feet Scientific Name		% Cove	r Dominant	Indicator
Pinus strobus		65	YES	FACU
	Tota	Cover: 65		1
Sapling Stratum				
Plot Size: 15 feet				
Scientific Name		% Cover	Dominant	Indicator
	Tota	Cover:		
Shrub Stratum				
Plot Size: 15 fe Scientific Name	et	% Cove	Dominant	Indicator
	Tota	Cover:		
Herb Stratum				
Plot Size: 5 feet Scientific Name		% Cove	r Dominant	Indicator
Vaccinium angustifolio	ım	50	YES	FACU
Crataegus crus-galli		5	NO	FAC
Anthoxanthum odorat	um	10	NO	FACU
Satureja vulgaris		5	NO	UPL
	Tota	Cover: 70		
Vine Stratum				
Plot Size: 30 feet Scientific Name		% Cove	Dominant	Indicator
Scientific Name				

Number of Dominant S that are OBL, FACW, o Total Number of Domin Species Across All Stra Percent of Dominant S are OBL, FACW, or FA Hydrophytic Vege 1 - Rapid Test for Hy 2 - Dominance Test 3 - Prevalance is ≤ 3 4 - Morphological Ac	pecies r FAC: ant ta: pecies tha C: etation I edrophytic is > 50%	ndicators: Vegetation) /B)		Total 9 OBL S FACW FAC S FACU UPL S Colum	alence Index Work 6 Cover of: pecies: species: pecies: species: pecies: precies: prevalence prevalence	Multiply by: $ \begin{array}{cccccccccccccccccccccccccccccccccc$
data in Remarks or o Problematic Hydropl Indicators of hydric so unless disturbed or pro Remarks:	on a separ nytic Vege il and wet	rate sheet) etation¹ (Explain)	J	esent			
SOIL							
	(Descri	be to the depti	h neede	d to doc	ument	the indicator or co	nfirm the absence of indicators.)
Depth Matrix	<u>`</u>		dox Featu				,
(in.) Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²	Texture	Remarks
0-9 5YR 3/3	100					LOAM	
9-18 5YR 4/4	400						
	100					CLAY LOAM	
¹ Type: C=Concentratio		letion, RM=Redu	ced Matrix	ĸ, CS=Co	overed Sa	CLAY LOAM	ains. ² Location: PL=Pore Lining, M=Matrix.
¹ Type: C=Concentration Hydric Soil Indicate	n, D=Dep	letion, RM=Redu	ced Matrix	x, CS=Co	overed Sa	CLAY LOAM Ind or Coated Sand Gr	ains. ² Location: PL=Pore Lining, M=Matrix. ndicators for Problematic Hydric Soils

Restrictive Layer Present (if present):			
Туре:	Hydric Soil Present?	☐ Yes	✓ No
Depth (inches):	Tryunc 3011 Fresent:	□ 163	™ NO
Remarks:			



DE1CW329_081613_UPL1NE.jpg Photo Name: Note: DE-1C-W329-UPL1

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: Unadil	la	Section	on, Township, Range: Sidney
Landform: Drainage		Lo	cal Relief:	✓ Concave ☐ Convex ☐ None Slope (%): 3
Subregion: Middle Atlantic	Latitu	de: 42.2861	11	Longitude: -75.35850 Datum: NAD 1983
Soil Map Unit Name: Ontusia ch	nannery silt loam, 3 to 8 pe	rcent slopes		NWI Classification: Not Mapped
Are climatic/hydrologic conditions of	on the site typical for this ti	me of year?	✓ Yes	☐ No (If no, explain in Remarks.)
Are Vegetation Soil or F	Hydrology significantly	disturbed?	∕ No	Are "Normal Circumstances" present? ✓ Yes ✓ No
Are Vegetation Soil or H	ydrology	blematic?	N O	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDING	S - Attach site map	showing sar	npling po	pint locations, transects, important features, etc.
Hydrophytic Vegetation Present?	✓ Yes	Is the Sai	mpled A	roa
Hydric Soil Present?	✓ Yes No	within a	-	Was I Na
Wetland Hydrology Present?	✓ Yes No			
Remarks:				
Field Wetland Classification: PEI	M			
HYDROLOGY	-			
Wetland Hydrology Indicato	rs			
Primary Indicators (minimum of one is	required; check all that apply)			Secondary Indicators (minimum of two required)
Surface Water (A1)		ed Leaves (B9)		Surface Soil Cracks (B6)
High Water Table (A2)	☐ Aquatic Fau			Drainage Patterns (B10)
Saturation (A3)	Marl Deposi			Moss Trim Lines (B16)
Water Marks (B1)		ulfide Odor (C1)	ivina Dooto (Dry-Season Water Table (C2)
Sediment Deposits (B2)	✓ Oxidized Rh	Reduced Iron (C		Grayhori Barronio (GG)
Drift Deposits (B3)		Reduction in Till	,	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Iron Deposits (B5)		Surface (C7)	ou como (co	Stunted or Stressed Plants (DT)
Inundation Visible on Aerial Image		ain in Remarks)		Geomorphic Position (D2)
Sparsely Vegetated Concave Surf	., (2.)	,		Shallow Aquitard (D3)
operator vogetator contavo carr	300 (20)			Microtopographic Relief (D4)
				FAC-Neutral Test (D5)
				Other (Explain in Remarks)
Field Observations:				
Surface Water Present:	Yes 🗸 No Depth (i	nches):		
Water Table Present:	Yes 🗸 No Depth (i	nches):		
Saturation Present:	Yes No Depth (i	nches): 0		Wetland Hydrology Present? ✓ Yes No
Describe Recorded Data (stream	gauge, monitoring well, ae	rial photos, pre	evious insp	ections), if available:
Remarks:				

:				
Tree Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
Pinus strobus		10	YES	FACU
Acer rubrum		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		1	l _	1
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
Herb Stratum	. 5.2 601011			
Plot Size: 5 feet				
Scientific Name		% Cover	Dominant	Indicator
Impatiens capensis		35	YES	FACW
Euthamia graminifolia		20	YES	FAC
Carex lurida		5	NO	OBL
Scirpus atrovirens		5	NO	OBL
Symphyotrichum novae-angliae		10	NO	FACW
Solidago gigantea		25	YES	FACW
	Total Cover:	100		
Vine Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
	Tatal Carre			
	Total Cover:			

Number	nance Test W r of Dominant Spo	ecies					alence Index % Cover of:	Workshee		Itiply by:	
	OBL, FACW, or		4 (A))		OBL S	pecies:	10	x 1 =	10	
	umber of Domina Across All Strata		5 (B)		FACW	Species:	70	x 2 =	140	
	t of Dominant Spe			,		FAC S	pecies:	30	x 3 =	90	
	L, FACW, or FAC		80 (A	/B)		FACU	Species:	10	x 4 =	40	
						UPL S	pecies:	0	x 5 =	0	
						Colum	n Totals:	120	(A)	280	(B)
							Prevale	ence Index =	B/A =	2.33	
Hydro	phytic Veget	ation I	ndicators:						-		
☐ 1 - R	apid Test for Hyd	Irophytic	Vegetation								
	ominance Test is		· ·			Hydro	ophytic Veget	tation Pre	sent?	✓ Yes □	No
✓ 3 - P	revalance is ≤ 3.0)									
	orphological Ada in Remarks or or			rting							
	lematic Hydrophy										
¹Indica	tors of hydric soil disturbed or prob	and wet	` ' '	nust be pr	esent						
Remark	<u> </u>										
IXCIIIAIK	3.										
SOIL											
	Description:	'Descri	be to the dept	h neede	d to do	cument :	the indicator o	or confirm t	he abse	ence of indicate	ors.)
Profile	1	(Descri	1			cument	the indicator o	or confirm t	he abse	ence of indicate	ors.)
Profile Depth	Matrix	-	Rec	dox Featu	ıres	1		or confirm t	he abse		ors.)
Profile Depth (in.)	Matrix Color (Moist)	%	Red Color (Moist)		Type 1	Loc ²	the indicator o	or confirm t	he abse	ence of indicate Remarks	ors.)
Profile Depth	Matrix	-	Rec	dox Featu	ıres	1		or confirm t	he abse		ors.)
Profile Depth (in.)	Matrix Color (Moist)	%	Red Color (Moist)	dox Featu %	Type 1	Loc ²	Texture	or confirm t	he abse		ors.)
Profile Depth (in.)	Matrix Color (Moist) 10YR 4/2	% 80	Rec Color (Moist) 7.5YR 4/6	dox Featu % 20	Type ¹	Loc ²	Texture	or confirm t	he abse		ors.)
Profile Depth (in.)	Matrix Color (Moist)	%	Red Color (Moist)	dox Featu %	Type 1	Loc ²	Texture	or confirm t	he abse		ors.)
Profile Depth (in.)	Matrix Color (Moist) 10YR 4/2	% 80	Rec Color (Moist) 7.5YR 4/6	dox Featu % 20	Type ¹	Loc ²	Texture	or confirm t	he abse		ors.)
Profile Depth (in.) 0-10	Matrix Color (Moist) 10YR 4/2 10YR 5/3	% 80 80	Rec Color (Moist) 7.5YR 4/6 7.5YR 4/6	20 20	Type ¹ C D	Loc² M,PL	Texture LOAM CLAY LOAM			Remarks	
Profile Depth (in.) 0-10 10-18	Matrix Color (Moist) 10YR 4/2 10YR 5/3 C=Concentration	% 80 80 , D=Dep	Rec Color (Moist) 7.5YR 4/6 7.5YR 4/6	20 20	Type ¹ C D	Loc² M,PL	Texture	nd Grains.	² Loc	Remarks cation: PL=Pore L	ining, M=Matrix.
Profile Depth (in.) 0-10 10-18	Matrix Color (Moist) 10YR 4/2 10YR 5/3 C=Concentration C Soil Indicato	% 80 80 , D=Dep	Rec Color (Moist) 7.5YR 4/6 7.5YR 4/6	20 20 20 ced Matri	Type 1 C D xx, CS=Co	Loc² M,PL M overed Sa	Texture LOAM CLAY LOAM and or Coated Sa	nd Grains.	² Loc ors for I	Remarks cation: PL=Pore L Problematic Hy	ining, M=Matrix.
Profile Depth (in.) 0-10 10-18	Matrix Color (Moist) 10YR 4/2 10YR 5/3 C=Concentration C Soil Indicato tosol (A1)	% 80 80 , D=Dep	Rec Color (Moist) 7.5YR 4/6 7.5YR 4/6 letion, RM=Redu	20 20 ced Matri	Type 1 C D x, CS=Co	Loc² M,PL M overed Sa	Texture LOAM CLAY LOAM and or Coated Sa R, MLRA 149B)	nd Grains. Indicat	² Loc ors for I Muck (A10	Remarks cation: PL=Pore L Problematic Hy 0) (LRR K, L, MLRA	ining, M=Matrix. rdric Soils 149B)
Profile Depth (in.) 0-10 10-18 Type: Hydrid His	Matrix Color (Moist) 10YR 4/2 10YR 5/3 C=Concentration c Soil Indicato tosol (A1) tic Epipedon (A2)	% 80 80 , D=Dep	Rec Color (Moist) 7.5YR 4/6 7.5YR 4/6 letion, RM=Redu	20 20 ced Matri	Type 1 C D x, CS=Co	Loc² M,PL M overed Sa	Texture LOAM CLAY LOAM and or Coated Sa R, MLRA 149B) RA 149B)	nd Grains. Indicat 2 cm Coas	² Loc ors for I Muck (A10 at: Prairie R	Remarks Cation: PL=Pore L Problematic Hy 0) (LRR K, L, MLRA Redox (A16) (LRR K,	ining, M=Matrix. rdric Soils 149B) L, R)
Profile Depth (in.) 0-10 10-18 Type: Hydrid Hist Hist Bla	Matrix Color (Moist) 10YR 4/2 10YR 5/3 C=Concentration c Soil Indicato tosol (A1) tic Epipedon (A2) ck Histic (A3)	% 80 80 , D=Dep	Rec Color (Moist) 7.5YR 4/6 7.5YR 4/6 letion, RM=Redu Poly Thir Loa	20 20 ced Matri yvalue Belo n Dark Surf	Type 1 C D x, CS=Co w Surface face (S9) (i Mineral (F	Loc² M,PL M overed Sa e (S8) (LRR LRR R, ML 1) (LRR K,	Texture LOAM CLAY LOAM and or Coated Sa R, MLRA 149B) RA 149B)	nd Grains. Indicat 2 cm Coas 5 cm	² Loc ors for I Muck (A10 st: Prairie R Mucky Pe	Remarks cation: PL=Pore L Problematic Hy 0) (LRR K, L, MLRA Redox (A16) (LRR K, at or Peat (S3) (LRR	ining, M=Matrix. rdric Soils 149B) L, R)
Profile Depth (in.) 0-10 10-18 Type: Hydrid Hist Hist Hist Hist Hist	Matrix Color (Moist) 10YR 4/2 10YR 5/3 C=Concentration c Soil Indicato tosol (A1) tic Epipedon (A2) ck Histic (A3) drogen Sulfide (A4)	% 80 80 , D=Dep	Rec Color (Moist) 7.5YR 4/6 7.5YR 4/6 letion, RM=Redu Poly Thir Loa Loa	20 20 ced Matri	Type 1 C D Ex, CS=Co Sw Surface Face (S9) (I Mineral (F) Matrix (F2)	Loc² M,PL M overed Sa e (S8) (LRR LRR R, ML 1) (LRR K,	Texture LOAM CLAY LOAM and or Coated Sa R, MLRA 149B) RA 149B)	nd Grains. Indicat 2 cm Coas 5 cm Dark	² Loc ors for I Muck (A10 at: Prairie R Mucky Pea Surface (S	Remarks Cation: PL=Pore L Problematic Hy 0) (LRR K, L, MLRA Redox (A16) (LRR K, at or Peat (S3) (LRR S7) (LRR K, L, M)	rdric Soils 149B) L, R) K, L, R)
Profile Depth (in.) 0-10 10-18 1 Type: Hydrid Hist Hist Hist Hydrid Stra	Matrix Color (Moist) 10YR 4/2 10YR 5/3 C=Concentration C Soil Indicato tosol (A1) tic Epipedon (A2) ck Histic (A3) drogen Sulfide (A4) atified Layers (A5)	% 80 80 , D=Dep	Rec Color (Moist) 7.5YR 4/6 7.5YR 4/6 letion, RM=Redu Poly Thin Loa V Dep	20 20 20 20 ced Matri	Type 1 C D Ex, CS=Co ow Surface face (S9) (i Mineral (F Matrix (F2 ix (F3)	Loc² M,PL M overed Sa e (S8) (LRR LRR R, ML 1) (LRR K,	Texture LOAM CLAY LOAM and or Coated Sa R, MLRA 149B) RA 149B)	nd Grains. Indicat 2 cm Coas 5 cm Dark Polyv	² Loc ors for I Muck (A10 st: Prairie R Mucky Pe: Surface (S value Belov	Remarks Cation: PL=Pore L Problematic Hy 0) (LRR K, L, MLRA Redox (A16) (LRR K, eat or Peat (S3) (LRR S7) (LRR K, L, M) w Surface (S8) (LRR	rdric Soils 149B) L, R) K, L, R)
Profile Depth (in.) 0-10 10-18 1 Type: Hydrid Hist Hist Hydrid Strat	Matrix Color (Moist) 10YR 4/2 10YR 5/3 C=Concentration c Soil Indicato tosol (A1) tic Epipedon (A2) ck Histic (A3) drogen Sulfide (A4) atified Layers (A5) oleted Below Dark S	% 80 80 , D=Dep rs:	Rec Color (Moist) 7.5YR 4/6 7.5YR 4/6 Poly Thin Loa Loa V Dep Color Rec Color Color Rec Color Color	20 20 20 20 20 20 20 20 20 20 20 20 20 2	Type 1 C D Ex, CS=Ce ow Surface face (S9) (I Mineral (F Matrix (F2 ix (F3) urface (F6)	Loc² M,PL M overed Sa e (S8) (LRR LRR R, ML 1) (LRR K,	Texture LOAM CLAY LOAM and or Coated Sa R, MLRA 149B) RA 149B)	nd Grains. Indicat 2 cm Coas 5 cm Dark Polyo	² Loc ors for I Muck (A10 st: Prairie R Mucky Per Surface (S value Below Dark Surfa	Remarks Cation: PL=Pore L Problematic Hy 0) (LRR K, L, MLRA Redox (A16) (LRR K, at or Peat (S3) (LRR S7) (LRR K, L, M) w Surface (S8) (LRR ace (S9) (LRR K, L)	ining, M=Matrix. rdric Soils 149B) L, R) K, L, R) K, L, R)
Profile Depth (in.) 0-10 10-18 1 Type: Hydrid His His Blat Hyc Strat Dep	Matrix Color (Moist) 10YR 4/2 10YR 5/3 C=Concentration c Soil Indicato tosol (A1) tic Epipedon (A2) ck Histic (A3) drogen Sulfide (A4) atified Layers (A5) oleted Below Dark S ck Dark Surface (A1	% 80 80 , D=Dep rs:	Rec Color (Moist) 7.5YR 4/6 7.5YR 4/6 letion, RM=Redu Poly Thin Loa V Dep Loa Dep Loa Dep	20 20 20 20 20 20 20 20 20 20 20 20 20 2	Type 1 C D X, CS=Co W Surface Face (S9) (I Mineral (F2 X (F3) urface (F6) Surface (F6)	Loc² M,PL M overed Sa e (S8) (LRR LRR R, ML 1) (LRR K, 2)) F7)	Texture LOAM CLAY LOAM and or Coated Sa R, MLRA 149B) RA 149B)	nd Grains. Indicat 2 cm Coas 5 cm Dark Polyv Thin Iron-I	² Loc ors for I Muck (A10 st: Prairie R Mucky Per Surface (Solvalue Below Dark Surfa Manganese	Remarks Cation: PL=Pore L Problematic Hy 0) (LRR K, L, MLRA Redox (A16) (LRR K, eat or Peat (S3) (LRR S7) (LRR K, L, M) w Surface (S8) (LRR ace (S9) (LRR K, L) e Masses (F12) (LRR	ining, M=Matrix. rdric Soils 149B) L, R) K, L, R) K, L, R)
Profile Depth (in.) 0-10 10-18 1 Type: Hydrid Hiss Bla Hyc Stra Dep Thic	Matrix Color (Moist) 10YR 4/2 10YR 5/3 C=Concentration c Soil Indicato tosol (A1) tic Epipedon (A2) ck Histic (A3) drogen Sulfide (A4) atified Layers (A5) oleted Below Dark S ck Dark Surface (A1 ndy Mucky Mineral (S	% 80 80 , D=Dep rs: urface (A' 2) S1)	Rec Color (Moist) 7.5YR 4/6 7.5YR 4/6 Poly Thir Loa Loa V Dep Rec Rec Rec Rec	20 20 20 20 20 20 20 20 20 20 20 20 20 2	Type 1 C D X, CS=Co W Surface Face (S9) (i Mineral (F2 ix (F3) urface (F6) Surface (F8)	Loc² M,PL M overed Sa e (S8) (LRR LRR R, ML 1) (LRR K, 2)) F7)	Texture LOAM CLAY LOAM and or Coated Sa R, MLRA 149B) RA 149B)	nd Grains. Indicat 2 cm Coas 5 cm Polyo Thin Iron-I	² Loc ors for I Muck (A10 at: Prairie R Mucky Per Surface (S value Below Dark Surfa Manganese mont Flood	Remarks Cation: PL=Pore L Problematic Hy 0) (LRR K, L, MLRA Redox (A16) (LRR K, at or Peat (S3) (LRR G7) (LRR K, L, M) w Surface (S8) (LRR ace (S9) (LRR K, L) e Masses (F12) (LRR dplain Soils (F19) (Ml	ining, M=Matrix. rdric Soils 149B) L, R) K, L, R) K, L, R) R K, L, R) LRA 149B)
Profile Depth (in.) 0-10 10-18 1 Type: Hydrid His His Hydrid Stra Dep Thid Sar	Matrix Color (Moist) 10YR 4/2 10YR 5/3 C=Concentration c Soil Indicato tosol (A1) tic Epipedon (A2) ck Histic (A3) drogen Sulfide (A4) atified Layers (A5) bleted Below Dark S ck Dark Surface (A1 ndy Mucky Mineral (S ndy Gleyed Matrix (S)	% 80 80 , D=Dep rs: urface (A' 2) S1)	Rec Color (Moist) 7.5YR 4/6 7.5YR 4/6 Poly Thir Loa Loa V Dep Rec Rec Rec Rec	yvalue Belom Dark Surfuced Matri	Type 1 C D X, CS=Co W Surface Face (S9) (i Mineral (F2 ix (F3) urface (F6) Surface (F8)	Loc² M,PL M overed Sa e (S8) (LRR LRR R, ML 1) (LRR K, 2)) F7)	Texture LOAM CLAY LOAM and or Coated Sa R, MLRA 149B) RA 149B)	nd Grains. Indicat 2 cm Coas 5 cm Polyo Thin Iron-I	² Loc ors for I Muck (A10 at: Prairie R Mucky Per Surface (S value Below Dark Surfa Manganese mont Flood	Remarks Cation: PL=Pore L Problematic Hy 0) (LRR K, L, MLRA Redox (A16) (LRR K, eat or Peat (S3) (LRR S7) (LRR K, L, M) w Surface (S8) (LRR ace (S9) (LRR K, L) e Masses (F12) (LRR	ining, M=Matrix. rdric Soils 149B) L, R) K, L, R) K, L, R) R K, L, R) LRA 149B)
Profile Depth (in.) 0-10 10-18 1 Type: Hydrid Hist Hist Bla Hyd Stra Dep Thid Sar Sar	Matrix Color (Moist) 10YR 4/2 10YR 5/3 C=Concentration c Soil Indicato tosol (A1) tic Epipedon (A2) ck Histic (A3) drogen Sulfide (A4) atified Layers (A5) bleted Below Dark S ck Dark Surface (A1 andy Mucky Mineral (S) andy Gleyed Matrix (S) andy Redox (S5)	% 80 80 , D=Dep rs: urface (A' 2) S1)	Rec Color (Moist) 7.5YR 4/6 7.5YR 4/6 Poly Thir Loa Loa V Dep Rec Rec Rec Rec	yvalue Belom Dark Surfuced Matri	Type 1 C D X, CS=Co W Surface Face (S9) (i Mineral (F2 ix (F3) urface (F6) Surface (F8)	Loc² M,PL M overed Sa e (S8) (LRR LRR R, ML 1) (LRR K, 2)) F7)	Texture LOAM CLAY LOAM and or Coated Sa R, MLRA 149B) RA 149B)	nd Grains. Indicat 2 cm Coas 5 cm Dark Polyv Thin Iron-I Piedr Mesi	² Loc ors for I Muck (A10 st: Prairie R Mucky Pe: Surface (S value Belov Dark Surfa Manganese mont Flood c Spodic (1	Remarks Cation: PL=Pore L Problematic Hy 0) (LRR K, L, MLRA Redox (A16) (LRR K, at or Peat (S3) (LRR G7) (LRR K, L, M) w Surface (S8) (LRR ace (S9) (LRR K, L) e Masses (F12) (LRR dplain Soils (F19) (Ml	ining, M=Matrix. rdric Soils 149B) L, R) K, L, R) K, L, R) R K, L, R) LRA 149B)
Profile Depth (in.) 0-10 10-18 Type: Hydrid His Hydrid Stra Dep Thid Sar Sar Stri	Matrix Color (Moist) 10YR 4/2 10YR 5/3 C=Concentration C Soil Indicato tosol (A1) tic Epipedon (A2) ck Histic (A3) drogen Sulfide (A4) atified Layers (A5) oleted Below Dark S ck Dark Surface (A1 ady Mucky Mineral (S ady Gleyed Matrix (S ady Redox (S5) pped Matrix (S6)	% 80 80 , D=Dep rs: urface (A' 2) S1)	Rec Color (Moist) 7.5YR 4/6 7.5YR 4/6 Poly Thin Loa V Dep Rec Dep Rec Oth	yvalue Belom Dark Surfuced Matri	Type 1 C D X, CS=Co W Surface Face (S9) (i Mineral (F2 ix (F3) urface (F6) Surface (F8)	Loc² M,PL M overed Sa e (S8) (LRR LRR R, ML 1) (LRR K, 2)) F7)	Texture LOAM CLAY LOAM and or Coated Sa R, MLRA 149B) RA 149B)	nd Grains. Indicat 2 cm Coas 5 cm Dark Polyv Thin Iron-I Piedr Mesie	² Loc ors for I Muck (A10 st: Prairie R Mucky Per Surface (S value Below Dark Surfa Manganese mont Flood c Spodic (1 Parent Mat	Remarks Cation: PL=Pore L Problematic Hy 0) (LRR K, L, MLRA Redox (A16) (LRR K, at or Peat (S3) (LRR S7) (LRR K, L, M) w Surface (S8) (LRR ace (S9) (LRR K, L) e Masses (F12) (LRF dplain Soils (F19) (MI TA6) (MLRA 144A, 1	ining, M=Matrix. rdric Soils 149B) L, R) K, L, R) K, L, R) R K, L, R) LRA 149B)
Profile Depth (in.) 0-10 10-18 Type: Hydrid His Hydrid Stra Dep Thid Sar Sar Stri	Matrix Color (Moist) 10YR 4/2 10YR 5/3 C=Concentration c Soil Indicato tosol (A1) tic Epipedon (A2) ck Histic (A3) drogen Sulfide (A4) atified Layers (A5) bleted Below Dark S ck Dark Surface (A1 andy Mucky Mineral (S) andy Gleyed Matrix (S) andy Redox (S5)	% 80 80 , D=Dep rs: urface (A' 2) S1)	Rec Color (Moist) 7.5YR 4/6 7.5YR 4/6 Poly Thin Loa V Dep Rec Dep Rec Oth	yvalue Belom Dark Surfuced Matri	Type 1 C D X, CS=Co W Surface Face (S9) (i Mineral (F2 ix (F3) urface (F6) Surface (F8)	Loc² M,PL M overed Sa e (S8) (LRR LRR R, ML 1) (LRR K, 2)) F7)	Texture LOAM CLAY LOAM and or Coated Sa R, MLRA 149B) RA 149B)	nd Grains. Indicat 2 cm Coas 5 cm Polyo Thin Iron-I Piedr Mesic Red Very	² Loc ors for I Muck (A10 st: Prairie R Mucky Per Surface (S value Below Dark Surfa Manganese mont Flood c Spodic (1 Parent Mat Shallow Da	Remarks Cation: PL=Pore L Problematic Hy O) (LRR K, L, MLRA Redox (A16) (LRR K, L, M) W Surface (S8) (LRR Ace (S9) (LRR K, L) e Masses (F12) (LRF dplain Soils (F19) (MI TA6) (MLRA 144A, 1 terial (F21)	ining, M=Matrix. rdric Soils 149B) L, R) K, L, R) K, L, R) R K, L, R) LRA 149B)

Restrictive Layer Present (if present):	
Туре:	Hydric Soil Present? ✓ Yes ☐ No
Depth (inches):	nyunc son Fresent: • Tes - No
Remarks:	



DE1CW338-BR_091313_WET1SE.jpg Photo Name: Note: DE-1C-W338BR-WET1

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, 7	Township, Range: Sidney
Landform: Hillside Local Relief:	Concave Convex None Slope (%): 4
Subregion: Middle Atlantic Latitude: 42.286164 Lo	ongitude: -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? $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	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 n	needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sampling point	t locations, transects, important features, etc.
Hydrophytic Vegetation Present? ☐ Yes ✓ No	
Hydric Soil Present?	□ Yes ☑ No
Wetland Hydrology Present? ☐ Yes ✓ No	
Remarks: Upland plot	
Field Wetland Classification:	
HYDROLOGY	
Wetland Hydrology Indicators	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1) Water Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) Marl Deposits (B15)	Drainage Patterns (B10)
	Moss Trim Lines (B16)
Water Marks (B1) Hydrogen Suffide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3)	☐ Dry-Season Water Table (C2) ☐ Crayfish Burrows (C8)
Drift Deposits (B3) Presence of Reduced Iron (C4)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6)	Stunted or Stressed Plants (D1)
☐ Iron Deposits (B5) ☐ Thick Muck Surface (C7)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Shallow Aguitard (D3)
Sparsely Vegetated Concave Surface (B8)	Microtopographic Relief (D4)
	FAC-Neutral Test (D5)
	Other (Explain in Remarks)
Field Observations:	
Surface Water Present: Yes V 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 inspection	ions), if available:
Remarks:	

Tree Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
Acer rubrum		30	YES	FAC
Acer saccharum		20	YES	FACU
Pinus strobus		30	YES	FACU
Fraxinus americana		20	YES	FACU
	Total Cover:	100		
Sapling Stratum	Total Gover.	100		
Plot Size: 15 feet				
Scientific Name		% Cover	Dominant	Indicator
Crataegus crus-galli		5	YES	FAC
	Total Cover:	5		
Shrub Stratum				
Plot Size: 15 feet				
Scientific Name		% Cover	Dominant	Indicator
Rosa multiflora		5	YES	FACU
	Total Cover:	5	l	
Herb Stratum				
Plot Size: 5 feet				
Scientific Name		% Cover	Dominant	Indicator
Solidago caesia		10	YES	FACU
Fraxinus americana		10	YES	FACU
Potentilla simplex		15	YES	FACU
Fragaria virginiana		10	YES	FACU
Quercus rubra		5	NO	FACU
	Total Cover:	50		
Vine Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			

Total Number of Do Species Across All Percent of Dominar are OBL, FACW, or 1 - Rapid Test fo 2 - Dominance T 3 - Prevalance is data in Remarks Problematic Hydroless disturbed or Remarks:	t Species t, or FAC: minant Strata: t Species that FAC: egetation I Hydrophytic est is > 50% ≤ 3.0 Adaptations or on a sepa cophytic Vege est soil and wei	20 (A. Indicators: Vegetation 1 (Provide supportate sheet) etation1 (Explain) tland hydrology m) /B) tting	esent	Total 9 OBL S FACW FAC S FACU UPL S Colum			0 0 105 500 0 605 3.78 (B)	
SOIL Profile Descripti	on: (Descri	he to the dent	n neede	d to doe	cument:	the indicator o	r confirm the ah	sence of indicators.)	
Depth Ma				u to uot	unient	ille illulcator o	i commini me ab		
Deptil Ivia		Por	lov Foatu	Iroc					
-			lox Featu %	Type 1	Loc ²	Texture		Remarks	
(in.) Color (Mo		Color (Moist)	1		Loc ²				
(in.) Color (Mo	ist) %		1		Loc ²	Texture			
(in.) Color (Mo 0-6 10YR 3/3	100 100	Color (Moist)	%	Type ¹		Texture LOAM LOAM			atrix.
(in.) Color (Mo 0-6 10YR 3/3 6-18 10YR 4/4	100 100 ation, D=Dep	Color (Moist)	%	Type ¹		Texture LOAM LOAM	nd Grains. ² L	Remarks	

Restrictive Layer Present (if present):				
Туре:		Uvdria Cail Dracont?	□ v	✓ No
Depth (inches):		Hydric Soil Present?	☐ Yes	▼ NO
Remarks:				



DE1CW338-BR_091313_UPL1N.jpg Photo Name: Note: DE-1C-W338BR-UPL1

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	n, 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 poi	int locations, transects, important features, etc.			
Hydrophytic Vegetation Present? ✓ Yes □ No	02			
Hydric Soil Present? Yes No Is the Sampled Are within a Wetland?	. 2 \ \			
Wetland Hydrology Present? ✓ Yes ☐ No				
Remarks:				
Field Wetland Classification: PFO				
HYDROLOGY				
Wetland Hydrology Indicators				
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)			
☐ Surface Water (A1)	Surface Soil Cracks (B6)			
✓ High Water Table (A2) Aquatic Fauna (B13)	✓ Drainage Patterns (B10)			
✓ Saturation (A3) Marl Deposits (B15) Undergon Sulfide Oder (C1)	Moss Trim Lines (B16)			
Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C	Dry-Season Water Table (C2)			
Descense of Deduced Iron (C4)	Orayiish Burlows (00)			
Dilit Deposits (B3)	Saturation Visible on Aerial Imagery (C9)			
Tight viator dust (DT)	Stunted or Stressed Plants (D1)			
☐ Iron Deposits (B5) ☐ Inlick Muck Surface (C7) ☐ Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks)	Geomorphic Position (D2)			
Sparsely Vegetated Concave Surface (B8)	Shallow Aquitard (D3)			
Sparsely vegetated concave surface (bb)	☐ Microtopographic Relief (D4)			
	FAC-Neutral Test (D5)			
	Other (Explain in Remarks)			
Field Observations:				
Surface Water Present: Yes V 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 inspe	ections), if available:			
Remarks:				

Tree Stratum				
Plot Size: 30 feet Scientific Name		% Cover	Dominant	Indicator
Carpinus caroliniana		5	NO	FAC
Fraxinus americana		7	YES	FACU
Acer rubrum		5	NO	FAC
Ulmus rubra		15	YES	FAC
	Total Cover:	32		
Sapling Stratum				
Plot Size: 15 feet Scientific Name		% Cover	Dominant	Indicator
Carpinus caroliniana		15	YES	FAC
Acer saccharum		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
Glyceria melicaria		20	YES	OBL
Persicaria sagittata		5	NO	OBL
Impatiens capensis		20	YES	FACW
Openium de aleutemiems		10	NO	FAC
Osmunda claytoniana			İ	E 4 0) 4/
Onoclea sensibilis		5	NO	FACW
Onoclea sensibilis		5 10	NO NO	FACW
Onoclea sensibilis Solidago gigantea				_
Onoclea sensibilis Solidago gigantea Epilobium coloratum		10	NO	FACW
Onoclea sensibilis Solidago gigantea Epilobium coloratum		10 5	NO NO	FACW OBL
Onoclea sensibilis Solidago gigantea Epilobium coloratum Symphyotrichum novi-belgii	Total Cover:	10 5 10	NO NO NO	FACW OBL FACW
Onoclea sensibilis Solidago gigantea Epilobium coloratum Symphyotrichum novi-belgii	Total Cover:	10 5 10 15	NO NO NO	FACW OBL FACW

Total Cover:

Dominance Test Worksheet Number of Dominant Species that are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species that are OBL, FACW, or FAC:	±:4_(A)5_(B)80(A/B)	Prevalence Index Total % Cover of: OBL Species: FACW Species: FAC Species: FACU Species: UPL Species: Column Totals:	45 45 50 9 0 149	Mul x 1 = x 2 = x 3 = x 4 = x 5 = (A)	45 90 150 36 0 321 2.15	- - - - - - (B)
Hydrophytic Vegetation Ind 1 - Rapid Test for Hydrophytic Ve 2 - Dominance Test is > 50% 3 - Prevalance is ≤ 3.0 4 - Morphological Adaptations¹ (P data in Remarks or on a separate Problematic Hydrophytic Vegetat ¹Indicators of hydric soil and wetlan unless disturbed or problematic.	Hydrophytic Ve	getation Pre	esent?	✓ Yes □	No	
Remarks:						

SOIL

Depth	Matrix		Redox Features					
(in.)	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²	Texture	Remarks
0-1	10YR 3/2	100					LOAM	
1-13	5Y 4/1	95	7.5YR 4/6	5	С	PL	SILT LOAM	
13-18	Gley1 4/10Y	90	10YR 4/6	10	С	М	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 Indic	ators:		Indicators for Problematic Hydric Soils
	A4) A5) ark Surface (A11) e (A12) eral (S1) rix (S4) (LRR R, MLRA 149B)	Polyvalue Below Surface (S8) (LRR R, MLRA 1 Thin Dark Surface (S9) (LRR R, MLRA 149B) Loamy Mucky Mineral (F1) (LRR K, L) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Other (Explain in Remarks)	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)
Restrictive Laye	er Present (if pre	sent):	
Type:			Hydric Soil Present? ✓ Yes ☐ No
Depth (inches):			Hydric John resent:
Photos			
Photo Name:	DE1CW344_09261	3 WET1S.jpg Note:	DE-1C-W344-WET1

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 L	ongitude: -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	f needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sampling point	nt locations, transects, important features, etc.
Hydrophytic Vegetation Present? ☐ Yes ✓ No	
Hydric Soil Present?	□ Yes 🗹 No
Wetland Hydrology Present?	
Remarks: Upland plot; Share upland plot with DE-1C-W343	
Field Wetland Classification:	
HYDROLOGY	
Wetland Hydrology Indicators	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1) Water Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) Marl Deposits (B15)	Drainage Patterns (B10)
	Moss Trim Lines (B16)
Outstand Discourse on Lindon Books (CO	Dry-Season Water Table (C2)
Processes of Reduced Iron (C4)	Orayiish Buriows (GG)
☐ Drift Deposits (B3) ☐ Recent Iron Reduction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)
☐ Iron Deposits (B5) ☐ Thick Muck Surface (C7)	Stunted or Stressed Plants (D1)
☐ Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks)	Geomorphic Position (D2)
Sparsely Vegetated Concave Surface (B8)	Shallow Aquitard (D3)
	Microtopographic Relief (D4)
	FAC-Neutral Test (D5)
	Uther (Explain in Remarks)
Field Observations:	
Surface Water Present:	
Water Table Present:	
Saturation Present: Yes V No Depth (inches):	Wetland Hydrology Present? ☐ Yes ✔ No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	ctions), if available:
Remarks:	

Tree Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
Ostrya virginiana		10	NO	FACU
Carpinus caroliniana		15	YES	FAC
Acer saccharum		40	YES	FACU
Acer rubrum		10	NO	FAC
	Total Cover:	75		
Sapling Stratum				
Plot Size: 15 feet				
Scientific Name		% Cover	Dominant	Indicator
Carpinus caroliniana		10	YES	FAC
	Total Cover:	10		
Shrub Stratum				
Plot Size: 15 feet				
Scientific Name		% Cover	Dominant	Indicator
Herb Stratum	Total Cover:			
Plot Size: 5 feet Scientific Name		% Cover	Dominant	Indicator
Carex pennsylvanicum		3	YES	UPL
Dryopteris intermedia		2	YES	FAC
Rubus allegheniensis		3	YES	FACU
. tazac anogromonolo			120	. 7.00
	Total Cover:	8		
Vine Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			

Dominance Test Worksheet Number of Dominant Species			Prevalence In Total % Cover of:	dex Workshe		Itiply by:	
that are OBL, FACW, or FAC:	3	(A)	OBL Species:	0	x 1 =	0	
Total Number of Dominant Species Across All Strata:	6	(B)	FACW Species:	0	x 2 =	0	-
Percent of Dominant Species that		-(-)	FAC Species:	37	x 3 =	111	,
are OBL, FACW, or FAC:	50	(A/B)	FACU Species:	53	x 4 =	212	_
			UPL Species:	3	x 5 =	15	_
			Column Totals:	93	(A)	338	(B)
			P	Prevalence Index =	= B/A =	3.63	=
Hydrophytic Vegetation Indi	icators:						
☐ 1 - Rapid Test for Hydrophytic Veg	getation						
2 - Dominance Test is > 50%		Hydrophytic V	egetation Pre	esent?	☐ Yes 🔽	No	
☐ 3 - Prevalance is ≤ 3.0							
4 - Morphological Adaptations¹ (Pidata in Remarks or on a separate		porting					
☐ Problematic Hydrophytic Vegetation	on¹ (Expla	in)					
¹ Indicators of hydric soil and wetland unless disturbed or problematic.	i hydrolog	y must be present					
Remarks:							

SOIL

Depth	Matrix		Redox Features					
(in.)	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²	Texture	Remarks
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 Indi	cators:		Indicators for Problematic Hydric Soils
Thick Dark Surfa Sandy Mucky Mir Sandy Gleyed Mi Sandy Redox (St Stripped Matrix (ST) Dark Surface (ST)	A2)	value Below Surface (S8) (LRR R, MLRA 14) Dark Surface (S9) (LRR R, MLRA 149B) ny Mucky Mineral (F1) (LRR K, L) ny Gleyed Matrix (F2) eted Matrix (F3) ox Dark Surface (F6) eted Dark Surface (F7) ox Depressions (F8) er (Explain in Remarks)	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)
Postrictivo I a	ver Present (if present):		
-	rei Present (ii present).		
Type:			Hydric Soil Present? ☐ Yes ☑ No
Depth (inches):			,
Photos			
Photo Name:	DE1CW344_092013_UPL7	1SE.jpg Note:	DE-1C-W344-UPL1

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	n, Township, Range: Davenport
Landform: Floodplain		Lo	cal Relief: [✓ Concave ☐ Convex ☐ None Slope (%): 0
Subregion: Middle Atlantic	Latitu	ude: 42.4343	99	Longitude: -74.90266 Datum: NAD 1983
Soil Map Unit Name: Tunkhanno	ck gravelly loam, 25 to 50	percent slope	s	NWI Classification: Not Mapped
Are climatic/hydrologic conditions o	n the site typical for this ti	ime of year?	✓ Yes	☐ No (If no, explain in Remarks.)
Are Vegetation Soil or H	ydrology significantly	disturbed?	∕ No	Are "Normal Circumstances" present? ✓ Yes ☐ No
Are Vegetation ☐ Soil 🕡 or Hy	drology naturally pro	oblematic?	No (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS	5 - Attach site map	showing sar	npling poi	int locations, transects, important features, etc.
Hydrophytic Vegetation Present?	✓ Yes	la tha Car		
Hydric Soil Present?	✓ Yes No	Is the Sar within a \	-	I.Z. Vaa III.
Wetland Hydrology Present?	✓ Yes	Within a	rociana.	
Remarks: Alluvial soils and auger	refusal at 4".	ı		
Field Wetland Classification: PSS	;			
HYDROLOGY				
Wetland Hydrology Indicator	'S			
Primary Indicators (minimum of one is re				Secondary Indicators (minimum of two required)
Surface Water (A1)		ed Leaves (B9)		Surface Soil Cracks (B6)
High Water Table (A2)	Aquatic Fau			✓ Drainage Patterns (B10)
Saturation (A3)	Marl Deposi	Sulfide Odor (C1)		Moss Trim Lines (B16)
Water Marks (B1)		nizospheres on Li	vina Poots (C	Dry-Season Water Table (C2)
Sediment Deposits (B2)		f Reduced Iron (C	-	Craynon Burlows (00)
☐ Drift Deposits (B3) ☐ Algal Mat or Crust (B4)		Reduction in Till	*	Saturation Visible on Aerial Imagery (C9)
Iron Deposits (B5)		Surface (C7)	(,	Stunted or Stressed Plants (D1)
Inundation Visible on Aerial Imager		ain in Remarks)		Geomorphic Position (D2)
Sparsely Vegetated Concave Surfa	, (2.)			Shallow Aquitard (D3)
spailed, regetated contexts can a	33 (23)			Microtopographic Relief (D4)
				FAC-Neutral Test (D5)
				Other (Explain in Remarks)
Field Observations:				
] [Yes No Depth (i			
	Yes No Depth (i			No. 10 No
Saturation Present:	Yes ✓ No Depth (i	inches):		Wetland Hydrology Present? ✓ Yes ☐ No
Describe Recorded Data (stream g	jauge, monitoring well, ae	erial photos, pre	evious inspe	ctions), if available:
Remarks:				

/EGETATION			
Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Tsuga canadensis	25	YES	FACU
Carpinus caroliniana	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	T	1	I
Scientific Name	% Cover	Dominant	Indicator
Alnus incana	10	YES	FACW
Salix nigra	5	NO	OBL
Fallopia japonica	10	YES	FACU
Robinia pseudoacacia	5	NO	FACU
Total Cover:	30		
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
Solidago gigantea	25	YES	FACW
Phalaris arundinacea	5	NO	FACW
Symphyotrichum novi-belgii	20	YES	FACW
Carex lurida	10	NO	OBL
Impatiens capensis	10	NO	FACW
	4.5	NO	OBL
Eutrochium maculatum	15		
Eutrochium maculatum Total Cover:			
Total Cover:			

Total Cover:

that are Total Ni Species Percent are OBI	r of Dominant Special OBL, FACW, or Fumber of Dominant Special Strata: of Dominant Special FACW, or FAC:	cies FAC: ht : cies that	3 (A) 5 (B) 60 (A/)		Total S OBL S FACW FAC S FACU UPL S	% Cover of: Species: / Species: Species: Species: species: species: species:	3 7 4	Moderate Mod	140 6 160 0 336 2.37
2 - D 2 - D 3 - P 4 - N data Prob Indica unless	apid Test for Hydrominance Test is revalance is ≤ 3.0 lorphological Adapin Remarks or on lematic Hydrophyttors of hydric soil a disturbed or problematic disturbed or problematic for soil a d	> 50% otations¹ a separtic Vege and wetl	(Provide suppor ate sheet) tation¹ (Explain)	Ü	resent	Hydro	ophytic \	egetation	Present?	✓ Yes □ No
Remark	3:									
SOIL										
	Description: (I	Descrik	pe to the depth	h neede	d to do	cument	the indica	ator or confi	m the abs	ence of indicators.)
Profile Depth	Matrix		Red	lox Feat	ıres				m the abs	•
Profile		Descrik %	-			Cument		ator or confi	m the abs	ence of indicators.) Remarks
Profile Depth	Matrix		Red	lox Feat	ıres			xture	m the abs	Remarks
Profile Depth (in.)	Matrix Color (Moist)	%	Red Color (Moist)	dox Featu %	Type ¹	Loc² None	Te SAND	xture	50% Gravel &	Remarks
Profile Depth (in.) 0-4	Matrix Color (Moist) 10YR 3/3	% 100 D=Depl	Red Color (Moist)	dox Featu %	Type ¹	Loc² None	Te SAND	xture ed Sand Grain	50% Gravel & s. ² Lo	Remarks Rock
Profile Depth (in.) 0-4 1 Type: Hydrid His Blan Hyd Stra Dep Thid Sar Sar Sar	Matrix Color (Moist) 10YR 3/3 C=Concentration,	% 100 D=Depl s:	etion, RM=Redu Poly Thir Loai Loa Dep Red Dep Red V Other	ced Matri walue Belo n Dark Suri my Mucky my Gleyed bleted Matri lox Dark S bleted Dark lox Depres	Type 1 Loc ² None overed Sa e (S8) (LRR LRR R, ML 1) (LRR K, 2)) F7)	Te SAND and or Coat R, MLRA 14 RA 149B)	ed Sand Grain Ind 9B)	50% Gravel & S. ² Lo icators for 2 cm Muck (A' Coast: Prairie 5 cm Mucky P Dark Surface (Polyvalue Belo Thin Dark Sur Iron-Mangane: Piedmont Floo Mesic Spodic Red Parent Ma	Remarks Rock Problematic Hydric Soils 10) (LRR K, L, MLRA 149B) Redox (A16) (LRR K, L, R) eat or Peat (S3) (LRR K, L, R) (S7) (LRR K, L, M) Dow Surface (S8) (LRR K, L) face (S9) (LRR K, L) se Masses (F12) (LRR K, L, R) odplain Soils (F19) (MLRA 149B) (TA6) (MLRA 144A, 145, 149B) aterial (F21) Dark Surface (TF12)	

] No
No
-



DE1CW345_091813_WET1SW.jpg Photo Name: Note: DE-1C-W345-WET1

Project/Site Constitution Mile	post 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	n, Township, Range: Davenport
Landform: island		Lo	cal Relief: [Concave ✓ Convex ☐ None Slope (%): 0
State: NY Sampling Point: DE-1C-W345-UPL1 vestigator(s): RR:KH USGS Quad: West Davenport Section, Township, Range: Davenport androrm: island Local Relief: Concave Convex None Stope (%): 0 ubregion: Middle Atlantic Latitude: 42.434464 Longitude: -74.90254 Datum: NAD 1983 ubregion: Middle Atlantic Lotifude: 42.434464 Longitude: -74.90254 Datum: NAD 1983 on May Unit Name: Tunkhannock gravelly loam, 25 to 50 percent slopes NWI Classification: Not Mapped re climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) re Vegetation Soil or Hydrology ignificantly disturbed? No Are "Normal Circumstances' present? Yes No re Vegetation Soil or Hydrology in aturally problematic? No Normal Circumstances' present? Yes No Normal Circumstances' present Nor				
Soil Map Unit Name: Tunkhannock g	State: NY Sampling Point: DE-1C-W345-UPL1			
Are climatic/hydrologic conditions on th	e site typical for this tir	me of year?	✓ Yes	☐ No (If no, explain in Remarks.)
Are Vegetation Soil or Hydro	ology significantly	disturbed?	No	Are "Normal Circumstances" present? ✓ Yes ☐ No
Are Vegetation Soil or Hydro	logy naturally pro	blematic?	No (I	If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS -	Attach site man	showing sar	- nnlina noi	int locations transacts important features etc
_		snowing sai	iipiiiig poi	The locations, transects, important leatures, etc.
•		within a v	wetiand?	= 103 = 110
Field Wetland Classification:				
HYDROLOGY				
Wetland Hydrology Indicators				
Primary Indicators (minimum of one is requi	red; check all that apply)			Secondary Indicators (minimum of two required)
Surface Water (A1)				Surface Soil Cracks (B6)
High Water Table (A2)				Drainage Patterns (B10)
Saturation (A3)				Moss Trim Lines (B16)
Water Marks (B1)				
Sediment Deposits (B2)		•	-	Crayfish Burrows (C8)
Drift Deposits (B3)		•	•	Saturation Visible on Aerial Imagery (C9)
			ed Soils (C6)	Stunted or Stressed Plants (D1)
☐ Iron Deposits (B5)				Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B	7) Uther (Expla	in in Remarks)		Shallow Aquitard (D3)
Sparsely Vegetated Concave Surface (B8)			Microtopographic Relief (D4)
				FAC-Neutral Test (D5)
				Other (Explain in Remarks)
Field Observations:				
Surface Water Present: Yes	No Depth (ii	nches):		
Water Table Present: Yes	No Depth (ir	nches):		
Saturation Present: Yes	No Depth (ir	nches):		Wetland Hydrology Present? ☐ Yes ✓ No
Describe Recorded Data (stream gaug	ge, monitoring well, aer	rial photos, pre	evious inspe	ctions), if available:
Remarks:				

VEGETATION				
Tree Stratum				
Plot Size: 30 feet Scientific Name		% Cover	Dominant	Indicator
Carpinus caroliniana		3	NO	FAC
Tsuga canadensis		85	YES	FACU
- rouga canadonoio				.,,,,,
	Total Cover:	88		
Sapling Stratum		I		
Plot Size: 15 feet Scientific Name		% Cover	Dominant	Indicator
Scientific Name		/8 COVE	Dominant	muicator
	Total Cover:		1	
Shrub Stratum				
Plot Size: 15 feet			l _	1
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			1
Herb Stratum				
Plot Size: 5 feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
Vine Stratum	Total Cover.			
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
Dominance Test Worksheet:	Prevalence Index	Workshoot		
Number of Dominant Species	Total % Cover of:	worksneet.	Multiply by:	
that are OBL, FACW, or FAC: 0 (A)	OBL Species:	0 x	1 = 0	
Total Number of Dominant Species Across All Strata: 1 (B)	FACW Species:	0 x	2 = 0	_
Percent of Dominant Species that	FAC Species:		3 = 9	
are OBL, FACW, or FAC: 0 (A/B)	FACU Species: UPL Species:		4 = <u>340</u> 5 = 0	
	Column Totals:	88 (A	-	(B)
		lence Index = B/A		
Hydrophytic Vegetation Indicators:			-	<u>—</u>
1 - Rapid Test for Hydrophytic Vegetation				a
2 - Dominance Test is > 50%	Hydrophytic Vege	etation Presei	nt? ☐ Yes 🗹	☑ No
 3 - Prevalance is ≤ 3.0 4 - Morphological Adaptations¹ (Provide supporting				
data in Remarks or on a separate sheet)				
Problematic Hydrophytic Vegetation¹ (Explain)				
¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.				
Remarks:				

SOII

SOIL												
Profile	Description: ((Descri	be to the depth	neede	ed to do	cument	the indicator or	confirm the absence of indicators.)				
Depth	Matrix		Redox Features									
(in.)	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²	Texture	Remarks				
)-2	10YR 2/2	200					SILT LOAM					
2-8	10YR 3/3	100					SILT LOAM					
1-0	1011(3/3	100					SIET LOAIVI					
8-20	7.5YR 4/4	100					SILT LOAM					
Туре:	C=Concentration	, D=Dep	letion, RM=Reduc	ced Mati	rix, CS=C	overed S	and or Coated San	d Grains. ² Location: PL=Pore Lining, M=Matrix				
Hydri	c Soil Indicato	rs:						Indicators for Problematic Hydric Soils				
_	tosol (A1)		Poly	value Bel	ow Surface	e (S8) (LRI	R R, MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)				
_	tic Epipedon (A2)		Thin	Dark Su	face (S9) (LRR R, M	LRA 149B)	Coast: Prairie Redox (A16) (LRR K, L, R)				
Bla	ck Histic (A3)				Mineral (F	, ,	, L)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)				
□ Нус	drogen Sulfide (A4)		Loar	ny Gleye	d Matrix (F2	2)		Dark Surface (S7) (LRR K, L, M)				
Stra	atified Layers (A5)			leted Mat				Polyvalue Below Surface (S8) (LRR K, L)				
Dep	oleted Below Dark S	Surface (A	II)		Surface (F6)			Thin Dark Surface (S9) (LRR K, L)				
Thi	ck Dark Surface (A1	2)			k Surface (F			Iron-Manganese Masses (F12) (LRR K, L, R)				
	ndy Mucky Mineral (ssions (F8)			Piedmont Floodplain Soils (F19) (MLRA 149B)				
Sar	ndy Gleyed Matrix (S	64)	Othe	er (Explaii	n in Remark	ks)		Mesic Spodic (TA6) (MLRA 144A, 145, 149B)				
Sar	ndy Redox (S5)							Red Parent Material (F21)				
	pped Matrix (S6)							Very Shallow Dark Surface (TF12)				
Dar	k Surface (S7) (LRF	R R, MLR	A 149B)					Other (Explain in Remarks)				
³Indicat	ors of hydrophytic ve	egetation	and wetland hydrolog	gy must b	e present u	ınless dist	urbed or problematic.	_ other (Explain in remaine)				
Restri	ictive Layer F	resen	t (if present):									
Type	:						LI	ydric Soil Present? ☐ Yes ☑ No				
Depti	h (inches):						"	MIC CONTRESENT: LIES MINO				
Remark	S:											



DE1CW345_091813_UPL1E.jpg Photo Name: Note: DE-1C-W345-UPL1

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: Daver	poirt	Section	n, Township, Range: Davenpoirt
Landform: Depression		Loc	cal Relief:	✓ Concave ☐ Convex ☐ None Slope (%): 0
State: NY Sampling Point: DE-1C-W346-WET1 vestigator(s): RR;KH USGS Quad: Davenpoirt Section, Township, Range: Davenpoirt DE-1C-W346-WET1 vestigator(s): RR;KH USGS Quad: Davenpoirt Section, Township, Range: Davenpoirt Local Relief: C Concave Convex None Stope (%): 0 Divergion: Middle Atlantic Latitude: 42.446034 Longitude: -74.86777 Datum: NAD 1983 Divergion: Middle Atlantic Latitude: 42.446034 Longitude: -74.86777 Datum: NAD 1983 Divergion: Map Unit Name: Mongaup channery loam, 8 to 15 percent slopes The Concave Convex None Stope (%): 0 Divergion: Middle Atlantic Latitude: 42.446034 Longitude: -74.86777 Datum: NAD 1983 DWI Classification: Not Mapped The Concave Convex None Stope (%): 0 DWI Classification: Not Mapped The Concave Convex None Stope (%): 0 DWI Classification: Not Mapped The Concave Convex None Stope (%): 0 DWI Classification: Not Mapped The Concave Convex None Stope (%): 0 DWI Classification: Not Mapped The Concave Convex None Stope (%): 0 DWI Classification: Not Mapped The Concave Convex None Stope (%): 0 DWI Classification: Not Mapped The Concave Convex None Stope (%): 0 DWI Classification: Not Mapped The Concave Convex None Stope (%): 0 DWI Classification: Not Mapped The Concave Convex None Stope (%): 0 DWI Classification: Not Mapped The Concave Convex None Stope (%) The Concave Concave Concave Surface (B8) The Concave Con				
Soil Map Unit Name: Mongaup	State: NY Sampling Point: DE-1C-W346-WET1			
Are climatic/hydrologic conditions	State: NY Sampling Point: DE-1C-W346-WET1 Sestigator(s): RR;KH			
estigator(s): RR;KH				
Are Vegetation Soil or F	Hydrology naturally pro	blematic?	No	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDING	S - Attach site map	showing sar	npling po	int locations, transects, important features, etc.
Hydrophytic Vegetation Present?				
Hydric Soil Present?	✓ Yes			
Wetland Hydrology Present?	✓ Yes	Within a	vetiand	
Remarks:				
Field Wetland Classification: PE	M			
HYDROLOGY				
Wetland Hydrology Indicato	ors			
Surface Water (A1) High Water Table (A2) ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Image Sparsely Vegetated Concave Sur	Water Stain Aquatic Fau Marl Deposi Hydrogen S Oxidized Rh Presence of Recent Iron Thick Muck ery (B7) Water Stain Aquatic Fau Array	na (B13) ts (B15) ulfide Odor (C1) izospheres on Li Reduced Iron (C Reduction in Tilla Surface (C7)	(4)	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Surface Water Present: Water Table Present: Saturation Present: Describe Recorded Data (stream	Yes No Depth (i	nches): 0	evious insp	g,g,
Remarks:				

/EGETATION				
Tree Stratum				
Plot Size: 30 feet Scientific Name		% Cover	Dominant	Indicator
Betula alleghaniensis		5	YES	FAC
Acer rubrum		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		0/ 0	Dominant	Indicator
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
Herb Stratum				
Plot Size: 5 feet				
Scientific Name		% Cover	Dominant	Indicator
Solidago gigantea		10	NO	FACW
Impatiens capensis		10	NO	FACW
Onoclea sensibilis		30	YES	FACW
Spiraea alba		5	NO	FACW
Rubus idaeus		2	NO	FACU
Galeopsis tetrahit		5	NO	FACU
Carex crinita		15	NO	OBL
Dryopteris sp		10	NO	NONE
Juncus effusus		10	NO	OBL
Persicaria sagittata		3	NO	OBL
		1	1	1
	Total Cover:	100		
Vine Stratum	Total Cover:	100		
Vine Stratum Plot Size: 30 feet Scientific Name	Total Cover:	100 % Cover	Dominant	Indicator

Total Cover:

Dominance Test Number of Dominant that are OBL, FACW, Total Number of Dom Species Across All S Percent of Dominant are OBL, FACW, or F Hydrophytic Veg 1 - Rapid Test for 2 - Dominance Test 4 - Morphological data in Remarks of Problematic Hydro Indicators of hydric unless disturbed or p	Species or FAC: inant irrata: Species that FAC: getation Hydrophytic st is > 50% 3.0 Adaptations r on a sepa iphytic Vegisoil and we	3 (A 3 (B at 100 (A Indicators: Vegetation (Provide supporate sheet) etation¹ (Explain) tland hydrology n) /B) rting	esent	Total 9 OBL S FACW FAC S FACU UPL S Colum	alence Index 6 Cover of: pecies: Species: pecies: pecies: preva	28 55 7 0 105 (alence Index = B	Multiply by: x 1 = 28 x 2 = 110 x 3 = 45 x 4 = 28 x 5 = 0 (A) 211 (B) (B)
SOIL Profile Descriptio	n: (Descri	be to the dept	h neede	d to do	cument	the indicator	or confirm the	e absence of indicators.)
Depth Matri			dox Featu		Loc ²	Tovium		Domestro
(in.) Color (Mois		Color (Moist)	%	Type ¹		Texture	;	Remarks
12-18 10YR 4/2	95 85	10YR 4/6	15	С	PL M	SILT LOAM		
¹ Type: C=Concentra	lion, D=Dep	l eletion, RM=Redu	ıced Matri	x, CS=C	overed Sa	and or Coated Sa	and Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indica	ators:						Indicato	rs for Problematic Hydric Soils
Histosol (A1) Histic Epipedon (A2 Black Histic (A3) Hydrogen Sulfide (A2) Stratified Layers (A2) Depleted Below Da2 Thick Dark Surface Sandy Mucky Miner Sandy Gleyed Matr Sandy Redox (S5) Stripped Matrix (S6	A4) 5) rk Surface (A (A12) ral (S1)	☐ Thi ☐ Loa ☐ Loa ☑ Dep	yvalue Belc n Dark Surf amy Mucky amy Gleyed bleted Matri dox Dark Si bleted Dark dox Depres aer (Explain	face (S9) (I Mineral (F Matrix (F2 x (F3) urface (F6) Surface (I	LRR R, ML 1) (LRR K, ²)	*	2 cm M Coast: 5 cm M Dark Si Polyval Thin Da	luck (A10) (LRR K, L, MLRA 149B) Prairie Redox (A16) (LRR K, L, R) lucky Peat or Peat (S3) (LRR K, L, R) urface (S7) (LRR K, L, M) lue Below Surface (S8) (LRR K, L) ark Surface (S9) (LRR K, L) anganese Masses (F12) (LRR K, L, R) ont Floodplain Soils (F19) (MLRA 149B)

Restrictive Layer Present (if present):			
Туре:	Hydric Soil Present?	✓ Yes	□ No
Depth (inches):	nyunc 3011 Fresent?	▼ 162	□ NO
Remarks:			



DE1CW346_091913_WET1N.jpg Photo Name: Note: DE-1C-W346-WET1

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: Dave	enpoirt	Section	n, Township, Range: Davenpoirt
Landform: Plateau		Lo	cal Relief:	Concave Convex None Slope (%): 0
Subregion: Middle Atlantic	Latif	tude: 42.44616	65	Longitude: -74.86778 Datum: NAD 1983
Soil Map Unit Name: Mongaup	o channery loam, 8 to 15 pe	ercent 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	y disturbed?	∕ No	Are "Normal Circumstances" present? ✓ Yes No
Are Vegetation Soil or	Hydrology	roblematic?	No (If needed, explain any answers in Remarks.)
SUMMARY OF FINDING	GS - Attach site map	showing sar	npling po	int locations, transects, important features, etc.
Hydrophytic Vegetation Present	? ☐ Yes 🗸 No	Is the Sa	mpled Ar	03
Hydric Soil Present?	☐ Yes 🗸 No	within a	-	
Wetland Hydrology Present?	☐ Yes 🗸 No			
Remarks: Upland plot				
Field Methon d Classifications C	THED			
Field Wetland Classification: O	THER			
HYDROLOGY				
Wetland Hydrology Indica				
Primary Indicators (minimum of one		=		Secondary Indicators (minimum of two required)
Surface Water (A1)	Aquatic Fa	ined Leaves (B9)		Surface Soil Cracks (B6)
High Water Table (A2)	Marl Depo			☐ Drainage Patterns (B10) ☐ Moss Trim Lines (B16)
Saturation (A3) Water Marks (B1)		Sulfide Odor (C1)		Dry-Season Water Table (C2)
Sediment Deposits (B2)		Rhizospheres on Li	iving Roots (C	
Drift Deposits (B3)		of Reduced Iron (C		Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Recent Iro	n Reduction in Tille	ed Soils (C6)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)	☐ Thick Muc	k Surface (C7)		
Inundation Visible on Aerial Imag	gery (B7) Other (Exp	olain in Remarks)		Geomorphic Position (D2)
Sparsely Vegetated Concave Su	· ,			Shallow Aquitard (D3)
				Microtopographic Relief (D4)FAC-Neutral Test (D5)
				Other (Explain in Remarks)
Field Observations:		<i>('</i> 1)		
Surface Water Present:		(inches):		
Water Table Present:		(inches):		Wetland Hydrology Present? ☐ Yes ✓ No
Saturation Present:		(inches):		, , , , , , , , , , , , , , , , , , , ,
Describe Recorded Data (strear	n gauge, monitoring well, a	erial photos, pre	evious inspe	ctions), if available:
Remarks:				

Tree Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
Tsuga canadensis		50	YES	FACU
Betula papyrifera		5	NO	FACU
Acer rubrum		20	YES	FAC
	Total Cover:	75		
Sapling Stratum				
Plot Size: 15 feet				
Scientific Name		% Cover	Dominant	Indicator
Fagus grandifolia		5	YES	FACU
	Total Cover:	5	I	
Shrub Stratum				
Plot Size: 15 feet		Í.	ı	1
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
Herb Stratum				
Plot Size: 5 feet				
Scientific Name		% Cover	Dominant	Indicator
Maianthemum canadense		5	YES	FACU
Mitchella repens		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		Prevalence Index Worksheet: Total % Cover of: Mul			Itiply by:	
that are OBL, FACW, or FAC:	1 (A)	OBL Species:	0	x 1 =	0	
Total Number of Dominant Species Across All Strata:	4 (B)	FACW Species:	0	x 2 =	0	-
Percent of Dominant Species that	(-/	FAC Species:	20	x 3 =	60	-
are OBL, FACW, or FAC:	25 (A/B)	FACU Species:	68	x 4 =	272	
		UPL Species:	0	x 5 =	0	_
		Column Totals:	88	(A)	332	(B)
		Pre	Prevalence Index = B/A =		3.77	-
Hydrophytic Vegetation Indi	cators:					
1 - Rapid Test for Hydrophytic Veg	getation					
2 - Dominance Test is > 50%	Hydrophytic Vegetation Present? ☐ Yes ☑ No					
☐ 3 - Prevalance is ≤ 3.0						
4 - Morphological Adaptations¹ (Pr data in Remarks or on a separate						
Problematic Hydrophytic Vegetation	on¹ (Explain)					
¹ Indicators of hydric soil and wetland unless disturbed or problematic.	l hydrology must be present					
Remarks:						

SOIL

Depth (in.) Co	Matrix	Matrix		Redox Features				
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²	Texture	Remarks
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 India	cators:			Indicators for Problematic Hydric Soils	
Thick Dark Surface Sandy Mucky Mine Sandy Gleyed Ma Sandy Redox (S5 Stripped Matrix (S Dark Surface (S7)	(A4) A5) Dark Surface (A11) De (A12) Deral (S1) Ottrix (S4) Ottrix (S4) Ottrix (S4) Ottrix (S4) Ottrix (S4) Ottrix (S4)	Polyvalue Below Surface (S8) (LRR R, Thin Dark Surface (S9) (LRR R, MLRA Loamy Mucky Mineral (F1) (LRR K, L) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Other (Explain in Remarks)	149B)	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)	
Type:	er Present (if pres	ent):	Нус	dric Soil Present? ☐ Yes 🗹 No	
Di 4					
Photos			174.0	S. S. L. OTTAKE	
Photo Name:	DE1CW346_09191	3 LIPI 1NE ing	Note: DE-1C-)	W346-LIPI 1	

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	on, Township, Range:Davenport
Landform: depression		Local Relief:	✓ Concave ☐ Convex ☐ None Slope (%): 3
Subregion: Middle Atlantic	Latitu	de: 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 or	n the site typical for this ti	me of year? Yes	☐ No (If no, explain in Remarks.)
Are Vegetation Soil or Hy	drology significantly	disturbed? V No	Are "Normal Circumstances" present? ✓ Yes ☐ No
Are Vegetation Soil or Hyd	drology naturally pro	blematic? V	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS	- Attach site map	showing sampling po	oint locations, transects, important features, etc.
Hydrophytic Vegetation Present?	✓ Yes No	le the Compled A	
Hydric Soil Present?	✓ Yes No	Is the Sampled A within a Wetland	. A V N -
Wetland Hydrology Present?	✓ Yes	within a Wetland	:
Remarks: Use DE-1C-W351-UPL	1 as representative uplar	d plot.	
Field Wetland Classification: PEM			
HYDROLOGY			
Wetland Hydrology Indicators	S		
Primary Indicators (minimum of one is re			Secondary Indicators (minimum of two required)
Surface Water (A1)		ed Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2)	Aquatic Fau		Drainage Patterns (B10)
✓ Saturation (A3)	Marl Deposi	ulfide Odor (C1)	Moss Trim Lines (B16)
☐ Water Marks (B1)		inide Odor (C1) izospheres on Living Roots (Dry-Season Water Table (C2)
Sediment Deposits (B2)		Reduced Iron (C4)	Grayiish Barrows (66)
Drift Deposits (B3)		Reduction in Tilled Soils (C6	Saturation Visible on Aerial Imagery (C9)
☐ Algal Mat or Crust (B4)☐ Iron Deposits (B5)		Surface (C7)	Stunted or Stressed Plants (DT)
Inundation Visible on Aerial Imagery		ain in Remarks)	Geomorphic Position (D2)
Sparsely Vegetated Concave Surface	(2.)	· · · · · · · · · · · · · · · · · · ·	Shallow Aquitard (D3)
oparoon, regulated conserve current	, (B0)		Microtopographic Relief (D4)
			FAC-Neutral Test (D5)
			Other (Explain in Remarks)
Field Observations:			
Surface Water Present:	Yes 🗹 No Depth (i	nches):	
Water Table Present:	Yes 🗹 No Depth (i	nches):	
Saturation Present:	Yes No Depth (i	nches): 0	Wetland Hydrology Present? ✓ Yes □ No
Describe Recorded Data (stream ga	auge, monitoring well, ae	rial photos, previous insp	ections), if available:
Remarks:			

Tuna Ciuntum				
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		I	T	
Plot Size: 5 feet			_	
Scientific Name		% Cover	Dominant	Indicator
Onoclea sensibilis		30	YES	FACW
Carex vulpinoidea		20	YES	OBL
Euthamia graminifolia		10	NO	FAC
Solidago rugosa		10	NO	FAC
Juncus effusus		10	NO	OBL
Ranunculus bulbosus		5	NO	FACW
Scirpus atrovirens		5	NO	OBL
Carex Iurida		10	NO	OBL
	Total Cover:	100		
Vine Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
	Total Gover.			

Dominance Test Workshee' Number of Dominant Species that are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species that are OBL, FACW, or FAC:	2 (A) 2 (B) 100 (A/B)	Prevalence Index Total % Cover of: OBL Species: FACW Species: FAC Species: FACU Species: UPL Species: Column Totals: Pre	45 35 20 0 0 100 evalence Index	Mul x 1 = x 2 = x 3 = x 4 = x 5 = (A)	tiply by: 45 70 60 0 175 1.75	- - - - - (B)
Hydrophytic Vegetation Ind 1 - Rapid Test for Hydrophytic Ve 2 - Dominance Test is > 50% 3 - Prevalance is ≤ 3.0 4 - Morphological Adaptations¹ (P data in Remarks or on a separate Problematic Hydrophytic Vegetat ¹Indicators of hydric soil and wetlan unless disturbed or problematic.	getation rovide supporting sheet) ion¹ (Explain)	Hydrophytic Ve	getation Pre	esent?	✓ Yes □	No
Remarks:						

Depth	th Matrix		Redox Features					
(in.)	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4	7.5YR 4/2	98	7.5YR 4/6	2	С	PL	LOAM	
4-12	7.5YR 5/2	95	7.5YR 5/6	5	С	M,PL	LOAM	
12-18	7.5YR 5/2	95	7.5YR 5/6	5	С	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 Indica	tors:		Indicators for Problematic Hydric Soils
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A- Stratified Layers (A5) Depleted Below Darl Thick Dark Surface (Sandy Mucky Minera Sandy Gleyed Matrix Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (L	4) k Surface (A11) (A12) al (S1) x (S4) LRR R, MLRA 149B)	Polyvalue Below Surface (S8) (LRR R, MLRA 1 Thin Dark Surface (S9) (LRR R, MLRA 149B) Loamy Mucky Mineral (F1) (LRR K, L) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Other (Explain in Remarks)	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)
Restrictive Layer	r Present (if prese	ent):	
Type:			Hydric Soil Present? ✓ Yes ☐ No
Depth (inches):			Hydric contricacint: E 163 E 160
Photos			
Photos			
Photo Name: D	DE1CW350_092513_	_WET1W.jpg Note:	: DE-1C-W350-WET1

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	n, Township, Range: Davenport
Landform: depression		Loc	cal Relief: [✓ Concave ☐ Convex ☐ None Slope (%): 1
Subregion: Middle Atlantic	Latitu	ıde: 42.43472	21	Longitude: -74.90107 Datum: NAD 1983
Soil Map Unit Name: Maplecrest	gravelly silt loam, 8 to 15	percent slopes	3	NWI Classification: Not Mapped
Are climatic/hydrologic conditions o	n the site typical for this ti	me of year?	✓ Yes	☐ No (If no, explain in Remarks.)
Are Vegetation Soil or H	ydrology significantly	disturbed?	No	Are "Normal Circumstances" present? ✓ Yes ☐ No
Are Vegetation Soil or Hy	drology naturally pro	oblematic?	No (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS	5 - Attach site map	showing san	npling poi	int locations, transects, important features, etc.
Hydrophytic Vegetation Present?	✓ Yes	la tha Car		
Hydric Soil Present?	✓ Yes	Is the Sar within a V	-	I.Z. Vaa III.
Wetland Hydrology Present?	✓ Yes	within a v	vetidila .	
Remarks:		1		
Field Wetland Classification: PEN	1			
HYDROLOGY				
Wetland Hydrology Indicator	'S			
Primary Indicators (minimum of one is re				Secondary Indicators (minimum of two required)
Surface Water (A1)		ed Leaves (B9)		Surface Soil Cracks (B6)
High Water Table (A2)	Aquatic Fau Marl Deposi			Drainage Patterns (B10)
Saturation (A3) Water Marks (B1)	_	ulfide Odor (C1)		
Sediment Deposits (B2)		nizospheres on Li	ving Roots (C	
Drift Deposits (B3)	Presence of	f Reduced Iron (C	(4)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Recent Iron	Reduction in Tille	ed Soils (C6)	Stunted or Stressed Plants (D1)
☐ Iron Deposits (B5)	Thick Muck	Surface (C7)		Geomorphic Position (D2)
☐ Inundation Visible on Aerial Imager	y (B7) Other (Expla	ain in Remarks)		Shallow Aquitard (D3)
Sparsely Vegetated Concave Surfa	ice (B8)			Microtopographic Relief (D4)
				FAC-Neutral Test (D5)
				Other (Explain in Remarks)
Field Observations:				
Surface Water Present:	Yes 🗸 No Depth (i	inches):		
Water Table Present:	Yes 🔽 No Depth (i	inches):		
Saturation Present:	Yes V No Depth (i	inches):		Wetland Hydrology Present? ✓ Yes □ No
Describe Recorded Data (stream g	jauge, monitoring well, ae	rial photos, pre	vious inspe	ctions), if available:
Remarks:				

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	Total Cover.			
Plot Size: 15 feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
Herb Stratum		T	T	
Plot Size: 5 feet			_	
Scientific Name		% Cover	Dominant	Indicator
Juncus effusus		30	YES	OBL
Euthamia graminifolia		25	YES	FAC
Solidago rugosa		15	NO	FAC
Agrostis gigantea		15	NO	FACW
Carex vulpinoidea		10	NO	OBL
Persicaria sagittata		2	NO	OBL
Epilobium coloratum		3	NO	OBL
	Total Cover:	100		
Vine Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
	Total Cover.			

that are Total Nu Species Percent are OBL	nance Test Wor of Dominant Specie OBL, FACW, or FA imber of Dominant Across All Strata: of Dominant Specie ., FACW, or FAC:	ies AC: es that	2 (A) 2 (B) 100 (A))		Total 9 OBL S FACW FAC S FACU UPL S	% Cover of: pecies: Species: Species: pecies: pecies: precies: precies:	45 15 40 0 0 100 revalence Index	x 1 = x 2 = x 3 = x 4 = x 5 = (A)	45 30 120 0 0 195	- - - - - (B)
1 - R 2 - D 3 - P 4 - M data Prob	phytic Vegetation apid Test for Hydropominance Test is > revalance is ≤ 3.0 orphological Adaptation in Remarks or on a lematic Hydrophytic tors of hydric soil and disturbed or probler	phytic Vo 50% ations¹ (I separat c Vegeta nd wetlar	egetation Provide supporte sheet) ation¹ (Explain)	J	esent	Hydro	ophytic Ve	egetation Pr	esent?	✓ Yes □	No
Remarks	s:										
SOIL											
Profile	Description: (De	escribe	_			ument	the indicat	tor or confirm	the abs	ence of indicat	ors.)
	Matrix		_	n neede dox Featu %		cument	_	tor or confirm	the abso	ence of indicat	ors.)
Profile Depth	Matrix Color (Moist)	% (Rec	lox Featu	ires	T	_		the abso		ors.)
Profile Depth (in.)	Matrix Color (Moist)	% (98 7	Rec Color (Moist)	lox Featu %	Type 1	Loc ²	Tex		the abso		ors.)
Profile Depth (in.) 0-12 12-18	Matrix Color (Moist) 7.5YR 4/2	% (98 7 80 7	Rec Color (Moist) 7.5YR 4/6 7.5YR 5/4	dox Featu % 2 20	Type ¹ C	Loc² PL	Tex LOAM LOAM	ture			
Profile Depth (in.) 0-12 12-18	Matrix Color (Moist) 7.5YR 4/2 7.5YR 4/3	% (98 7 80 7	Rec Color (Moist) 7.5YR 4/6 7.5YR 5/4	dox Featu % 2 20	Type ¹ C	Loc² PL	Tex LOAM LOAM	ture	² Lo	Remarks	ining, M=Matrix.

Restrictive Layer Present (if present):			
Type:	Hydric Soil Present?	✓ Yes	□ No
Depth (inches):	riyunc son Fresent:	<u> </u>	
Remarks:			

Photos



DE1CW351_092513_WET1NE.jpg Photo Name: Note: DE-1C-W351-WET1

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	n, Township, Range: Davenport
Landform: Side slope	Local Relief:	☐ Concave ✓ Convex ☐ None Slope (%): 5
Subregion: Middle Atlantic Latit	ude: 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 t	time of year? 🗸 Yes	☐ No (If no, explain in Remarks.)
Are Vegetation $\ \ \ \ \ \ \ \ \ \ \ \ \ $	disturbed? ✓ No	Are "Normal Circumstances" present? ✓ Yes No
Are Vegetation Soil or Hydrology naturally pr	oblematic? ✓ No (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map	showing sampling po	int locations, transects, important features, etc.
Hydrophytic Vegetation Present? ☐ Yes ✔ No	Is the Sampled Ar	03
Hydric Soil Present? ☐ Yes ✓ No	within a Wetland?	Voc Wo
Wetland Hydrology Present? ☐ Yes ✔ No		
Remarks: Upland plot		
Field Wetland Classification:		
HYDROLOGY		
Wetland Hydrology Indicators		
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)
	ned Leaves (B9)	Surface Soil Cracks (B6)
		Drainage Patterns (B10)
	Sulfide Odor (C1)	
Water Warks (B1)	hizospheres on Living Roots (C	
	of Reduced Iron (C4)	Saturation Visible on Aerial Imagery (C9)
	Reduction in Tilled Soils (C6)	Stunted or Stressed Plants (D1)
☐ Iron Deposits (B5) ☐ Thick Muck	Surface (C7)	Geomorphic Position (D2)
☐ Inundation Visible on Aerial Imagery (B7) ☐ Other (Expl	lain in Remarks)	Shallow Aquitard (D3)
Sparsely Vegetated Concave Surface (B8)		Microtopographic Relief (D4)
		FAC-Neutral Test (D5)
		Other (Explain in Remarks)
Field Observations:		
	(inches):	
	inches):	
	inches):	Wetland Hydrology Present? ☐ Yes ✓ No
Describe Recorded Data (stream gauge, monitoring well, as	 erial photos, previous inspe	ections), if available:
Remarks:		·
Nemans.		

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		T.		
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
Herb Stratum				
Plot Size: 5 feet				
Scientific Name		% Cover	Dominant	Indicator
Solidago canadensis		55	YES	FACU
Solidago rugosa		10	NO	FAC
Phleum pratense		10	NO	FACU
Fragaria virginiana		5	NO	FACU
Galium mollugo		10	NO	FACW
Dactylis glomerata		5	NO	FACU
Satureja vulgaris		5	NO	UPL
	Total Cover:	100		
Vine Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
	Total Gover:			

Dominance Test Worksheet: Number of Dominant Species		Prevalence Inde	x Workshe		tiply by:	
that are OBL, FACW, or FAC: Total Number of Dominant	0 (A)	OBL Species:	0	x 1 =	0	-
Species Across All Strata:	1 (B)	FACW Species:	10	x 2 =	20	-
Percent of Dominant Species that		FAC Species:	10	x 3 =	30	=
are OBL, FACW, or FAC:	0 (A/B)	FACU Species:	75	x 4 =	300	-
		UPL Species:	5	x 5 =	25	-
		Column Totals:	100	(A) _	375	(B)
		Prev	/alence Index =	B/A =	3.75	-
Hydrophytic Vegetation India	cators:					
1 - Rapid Test for Hydrophytic Veg	etation					
2 - Dominance Test is > 50%		Hydrophytic Veg	etation Pre	sent?	☐ Yes 🔽	No
☐ 3 - Prevalance is ≤ 3.0						
4 - Morphological Adaptations¹ (Production data in Remarks or on a separate s						
Problematic Hydrophytic Vegetatio	n¹ (Explain)					
¹ Indicators of hydric soil and wetland unless disturbed or problematic.	hydrology must be present					
Remarks:						

Depth	Matrix		Redo	Redox Features				
(in.)	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ² Texture	Remarks	
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 Indi	cators:		Indicators for Problematic Hydric Soils
Thick Dark Surfa Sandy Mucky Mir Sandy Gleyed Ma Sandy Redox (St Stripped Matrix (St) Dark Surface (S7)	e (A4) (A5) Dark Surface (A11) ce (A12) neral (S1) atrix (S4) 5) S66) 7) (LRR R, MLRA 149B)	Polyvalue Below Surface (S8) (LRR R, MLRA Thin Dark Surface (S9) (LRR R, MLRA 149B) Loamy Mucky Mineral (F1) (LRR K, L) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Other (Explain in Remarks)	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)
Postrictive Lav	er Present (if pre	seant).	
•	yer i resent (ii pre	sent).	
Type:			Hydric Soil Present? ☐ Yes 🗹 No
Depth (inches):			
Photos			
Photo Name:	DE1CW351_09251	I3_UPL1NW.jpg Note	: DE-1C-W351-UPL1

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	d: West Davenport Section	on, 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 $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	nificantly disturbed? No	Are "Normal Circumstances" present? ✓ Yes No
Are Vegetation Soil or Hydrology natu	urally problematic? No	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach sit	e map showing sampling po	oint locations, transects, important features, etc.
Hydrophytic Vegetation Present? ✓ Yes ☐	No Is the Sampled A	rea
Hydric Soil Present? ✓ Yes	No within a Wetland	
Wetland Hydrology Present? ✓ Yes ☐	No	
Remarks: disturbed veg-recently mowed field		
Field Wetland Classification: PEM		
HYDROLOGY		
Wetland Hydrology Indicators		
Primary Indicators (minimum of one is required; check all the	at apply)	Secondary Indicators (minimum of two required)
	/ater Stained Leaves (B9)	Surface Soil Cracks (B6)
	quatic Fauna (B13)	☐ Drainage Patterns (B10)
Galaration (7.6)	arl Deposits (B15)	Moss Trim Lines (B16)
Tracer maine (B1)	ydrogen Sulfide Odor (C1) xidized Rhizospheres on Living Roots (0	Dry-Season Water Table (C2)
	resence of Reduced Iron (C4)	Grayitan Barronia (GG)
Drift Deposits (B3)	ecent Iron Reduction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)
Algai Mat of Clust (D4)	nick Muck Surface (C7)	Stunted or Stressed Plants (D1)
II on Deposits (Do)	ther (Explain in Remarks)	Geomorphic Position (D2)
Sparsely Vegetated Concave Surface (B8)	,	Shallow Aquitard (D3)
		Microtopographic Relief (D4)
		FAC-Neutral Test (D5)
		Other (Explain in Remarks)
Field Observations:		
Surface Water Present: Yes V 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 insp	ections), if available:
Remarks:		
I.		

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
Acorus americanus		60	YES	OBL
Juncus effusus		20	YES	OBL
Euthamia graminifolia		5	NO	FAC
Solidago gigantea		15	NO	FACW
	Total Cover:	100	I	I
Vine Stratum				
Plot Size: 30 feet Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			

Dominance Test Worksheet Number of Dominant Species		Prevalence I Total % Cover of	ndex Workshe		tiply by:	_
that are OBL, FACW, or FAC:	(A)	OBL Species:	80	x 1 =	80	
Total Number of Dominant Species Across All Strata:	2 (B)	FACW Species:	15	x 2 =	30	_
Percent of Dominant Species that	(FAC Species:	5	x 3 =	15	_
are OBL, FACW, or FAC:	100 (A/B)	FACU Species:	0	x 4 =	0	=
		UPL Species:	0	x 5 =	0	=
		Column Totals:	100	(A)	125	_ (B)
			Prevalence Index =	= B/A =	1.25	_
Hydrophytic Vegetation Ind	icators:					
☐ 1 - Rapid Test for Hydrophytic Ve	getation					
✓ 2 - Dominance Test is > 50%		Hydrophytic Vegetation Present? ✓ Yes ☐ No				No
✓ 3 - Prevalance is ≤ 3.0						
4 - Morphological Adaptations¹ (P data in Remarks or on a separate						
☐ Problematic Hydrophytic Vegetati	on¹ (Explain)					
¹ Indicators of hydric soil and wetland unless disturbed or problematic.	d hydrology must be present					
Remarks:						

Depth	Matrix	Matrix		edox Features				
(in.)	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²	Texture	Remarks
0-1	10YR 3/2	100					LOAM	
1-12	10YR 4/2	90	7.5YR 4/6	10	С	PL	LOAM	
12-18	10YR 4/2	97	7.5YR 4/6	3	С	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 Indica	ators:	Indicators for Problematic Hydric Soils
	Loamy Mucky Mineral (F1) (LRR K, L) Loamy Gleyed Matrix (F2) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Other (Explain in Remarks)	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)
Postriotivo Lovo	or Present (if present).	
-	er Present (if present):	
Type:		Hydric Soil Present? ✓ Yes □ No
Depth (inches):		nyana com raccini. — rac — ne
Distant		
Photos		2 met 5
Photo Name:	DE1CW353_101513_WET1SE.jpg	Note: DE-1C-W353-WET1

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: Wes	t Davenport	Section	n, Township, Range: Davenport
Landform: hillslope		Lo	cal Relief:	Concave Convex None Slope (%): 4
Subregion: Middle Atlantic	Lati	tude: 42.43504	41	Longitude: -74.90144 Datum: NAD 1988
Soil Map Unit Name: Maplecre	st gravelly silt loam, 8 to 1	5 percent slope	S	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 _ significant	ly disturbed?	No	Are "Normal Circumstances" present? ✓ Yes No
Are Vegetation Soil or I	Hydrology naturally p	roblematic?	No (If needed, explain any answers in Remarks.)
SUMMARY OF FINDING	S - Attach site map	showing sar	npling po	int locations, transects, important features, etc.
Hydrophytic Vegetation Present?	? ☐ Yes 🗸 No	Is the Sa	mplad Ar	02
Hydric Soil Present?	☐ Yes 🗸 No	within a		
Wetland Hydrology Present?	☐ Yes 🗸 No			
Remarks: Upland plot				
Field Wetland Classification:				
HYDROLOGY				
Wetland Hydrology Indicat		A		
Primary Indicators (minimum of one is Surface Water (A1)		ined Leaves (B9)		Secondary Indicators (minimum of two required) Surface Soil Cracks (B6)
High Water Table (A2)		auna (B13)		Drainage Patterns (B10)
Saturation (A3)	Marl Depo			Moss Trim Lines (B16)
Water Marks (B1)	Hydrogen	Sulfide Odor (C1)		Dry-Season Water Table (C2)
Sediment Deposits (B2)	Oxidized F	Rhizospheres on Li	ving Roots (C	
Drift Deposits (B3)	Presence	of Reduced Iron (C	C4)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Recent Iro	n Reduction in Till	ed Soils (C6)	Stunted or Stressed Plants (D1)
☐ Iron Deposits (B5)	Thick Muc	k Surface (C7)		Geomorphic Position (D2)
Inundation Visible on Aerial Imag	jery (B7) Other (Exp	olain in Remarks)		Shallow Aquitard (D3)
Sparsely Vegetated Concave Su	rface (B8)			Microtopographic Relief (D4)
				FAC-Neutral Test (D5)
				Other (Explain in Remarks)
Field Observations:				
_	Yes 🗸 No Depth	(inches):		
Water Table Present:		(inches):		
Saturation Present:	Yes V No Depth	(inches):		Wetland Hydrology Present? ☐ Yes ✓ No
Describe Recorded Data (stream	gauge, monitoring well, a	erial photos, pre	evious inspe	ections), if available:
Remarks:				

Tree Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
Sapling Stratum				
Plot Size: 15 feet				
Scientific Name		% Cover	Dominant	Indicator
Shrub Stratum	Total Cover:			
Plot Size: 15 feet				
Scientific Name		% Cover	Dominant	Indicator
Coloniano Name		70 00101	Dominant	maioatoi
	Total Cover:			
Herb Stratum				
Plot Size: 5 feet				
Scientific Name		% Cover	Dominant	Indicator
Phleum pratense		20	YES	FACU
Fragaria virginiana		5	NO	FACU
Galium mollugo		5	NO	UPL
Satureja vulgaris		5	NO	UPL
Solidago canadensis		20	YES	FACU
Unidentified species		45	YES	NONE
	Total Cover:	100		
Vine Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
	Total Cover.			

Total Number of Do Species Across All Percent of Dominar are OBL, FACW, or 1 - Rapid Test fo 2 - Dominance T 3 - Prevalance is	Strata: It Species that FAC: Egetation If Hydrophytic lest is > 50% ≤ 3.0 I Adaptations or on a sepan rophytic Veget soil and we're the series of the s	0 (A) 3 (B) at 0 (A) ndicators: Vegetation 1 (Provide supporrate sheet) etation¹ (Explain) etand hydrology m) /B) rting	esent	Total 9 OBL S FACW FAC S FACU UPL S Colum	% Cover of: pecies: Species: pecies: Species: pecies: pecies: pecies: Preva	0 x 1 0 x 2 0 x 3 45 x 4 10 x 5 55 (A) etation Present	2 = 0 3 = 0 4 = 180 5 = 50 230 (B) = 4.18
SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Profile Descripti	on: (Descri	be to the depti	h neede	d to doc	ument	the indicator	or confirm the	absence of indicators.)
		1	h neede dox Featu		cument	the indicator	or confirm the	absence of indicators.)
	rix	1			Loc ²	the indicator of		absence of indicators.) Remarks
Depth Ma	rix	Red	dox Featu	ires	T			·
Depth Ma (in.) Color (Mc	rix ist) %	Red	dox Featu	ires	Loc ²	Texture		·
Depth (in.) Ma 0-6 10YR 3/3	rix % 100 100	Rec Color (Moist)	dox Featu	Type ¹	Loc² None None	Texture LOAM LOAM		·
Depth (in.) Ma Color (Mo 0-6 10YR 3/3 6=18 10YR 4/3	rix % 100 100 ation, D=Dep	Rec Color (Moist)	dox Featu	Type ¹	Loc² None None	Texture LOAM LOAM	and Grains.	Remarks

Restrictive Layer Present (if present):			
Туре:	Uvdria Cail Dracont?	□ Yes	✓ No
Depth (inches):	Hydric Soil Present?	⊔ res	▼ NO
Remarks:			

Photos



DE1CW353_101513_UPL1E.jpg Photo Name: Note: DE-1C-W353-UPL1

Project/Site Constitution I	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		Loc	cal Relief: 🔽	Concave Convex None Slope (%): 6
Subregion: Middle Atlantic	Latitu	ide: 42.43386	64 L	ongitude: -74.90432 Datum: NAD 1988
Soil Map Unit Name: Lackawanna	a and Bath soils, 15 to 35	percent slope	s, very stony	NWI Classification: Not Mapped
Are climatic/hydrologic conditions or	n the site typical for this ti	me of year?	✓ Yes	No (If no, explain in Remarks.)
Are Vegetation Soil or Hy	drology significantly	disturbed?	No	Are "Normal Circumstances" present? ✓ Yes ☐ No
Are Vegetation Soil or Hy	drology _ naturally pro	blematic?	No (If	f needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS	- Attach site map	showing sar	npling poir	nt locations, transects, important features, etc.
Hydrophytic Vegetation Present?	✓ Yes	In the One		
Hydric Soil Present?	✓ Yes	within a \	mpled Are Netland?	ea ☑ Yes ☐ No
Wetland Hydrology Present?	✓ Yes	Within a	rottaria .	
Remarks:		1		
Field Wetland Classification: PFO				
HYDROLOGY				
Wetland Hydrology Indicator	S			
Primary Indicators (minimum of one is re	equired; check all that apply)			Secondary Indicators (minimum of two required)
Surface Water (A1)		ed Leaves (B9)		Surface Soil Cracks (B6)
High Water Table (A2)	☐ Aquatic Fau			✓ Drainage Patterns (B10)
Saturation (A3)	Marl Deposi			Moss Trim Lines (B16)
Water Marks (B1)		ulfide Odor (C1)	vina Doots (C2	Dry-Season Water Table (C2)
Sediment Deposits (B2)		izospheres on Li Reduced Iron (C		Orayiish Buriows (GG)
☐ Drift Deposits (B3)		Reduction in Tille	· ·	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Surface (C7)	ou cono (co)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)		ain in Remarks)		Geomorphic Position (D2)
☐ Inundation Visible on Aerial Imagery☐ Sparsely Vegetated Concave Surface	(2.)	an in recinario,		Shallow Aquitard (D3)
Oparsely vegetated Concave Surface	ж (Бб)			Microtopographic Relief (D4)
				FAC-Neutral Test (D5)
				Other (Explain in Remarks)
Field Observations:				
	Yes 🔽 No Depth (i	•		
	Yes ✓ No Depth (i			
Saturation Present:	Yes No Depth (i	nches): 0		Wetland Hydrology Present? ✓ Yes ☐ No
Describe Recorded Data (stream g	auge, monitoring well, ae	rial photos, pre	evious inspec	tions), if available:
Remarks:				

Tree Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
Acer saccharum		50	YES	FACU
Betula alleghaniensis		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			1	
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
Herb Stratum				
Plot Size: 5 feet				
Scientific Name		% Cover	Dominant	Indicator
Carex crinita		80	YES	OBL
Dryopteris intermedia		5	NO	FAC
Impatiens capensis		5	NO	FACW
Tiarella cordifolia		10	NO	FACU
	Total Cover:	100		
Vine Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:		1	

Dominance Test Worksheet Number of Dominant Species		Prevalence Inc Total % Cover of:	lex Workshe		tiply by:	_
that are OBL, FACW, or FAC:	(A)	OBL Species:	80	x 1 =	80	
Total Number of Dominant Species Across All Strata:	3 (B)	FACW Species:	5	x 2 =	10	=
Percent of Dominant Species that		FAC Species:	20	x 3 =	60	-
are OBL, FACW, or FAC:	67 (A/B)	FACU Species:	60	x 4 =	240	_
		UPL Species:	0	x 5 =	0	_
		Column Totals:	165	(A)	390	(B)
		Pr	evalence Index =	= B/A =	2.36	=
Hydrophytic Vegetation Indi	cators:					
1 - Rapid Test for Hydrophytic Veg	getation					
✓ 2 - Dominance Test is > 50%		Hydrophytic Vegetation Present? ✓ Yes ☐ No				
✓ 3 - Prevalance is ≤ 3.0						
4 - Morphological Adaptations¹ (Pr data in Remarks or on a separate	0					
Problematic Hydrophytic Vegetation	on¹ (Explain)					
¹ Indicators of hydric soil and wetland unless disturbed or problematic.	l hydrology must be present					
Remarks:						

Depth	Matrix		Red	ox Featı	ıres				
(in.)	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-1	10YR 2/2	100				None	ORGANIC		
4	10YR 3/2	100				None	SANDY LOAM	W/Organic material	
4-18	Gley1 4/5GY	90	5YR 4/2	10	D	М	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 Indicato	rs:		Indicators for Proble	matic Hydric Soils
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark S Thick Dark Surface (A1 Sandy Mucky Mineral (S Sandy Gleyed Matrix (S Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRF	Thin Dark Surface (\$\bigcup Loamy Mucky Miner \bigcup Loamy Gleyed Matrix \bigcup Depleted Matrix (F3) \bigcup Redox Dark Surface (A11) \bigcup Depleted Dark Surface (B1) \bigcup Redox Depressions \bigcup Cher (Explain in Redox Depression in Redo	x (F2)) e (F6) ace (F7) (F8) emarks)	2 cm Muck (A10) (LRR II Coast: Prairie Redox (A' 5 cm Mucky Peat or Pea Dark Surface (S7) (LRR Polyvalue Below Surface Thin Dark Surface (S9) Iron-Manganese Masses Piedmont Floodplain So Mesic Spodic (TA6) (ML Red Parent Material (F2 Very Shallow Dark Surface Other (Explain in Reman	16) (LRR K, L, R) at (S3) (LRR K, L, R) K, L, M) e (S8) (LRR K, L) (LRR K, L) s (F12) (LRR K, L, R) eils (F19) (MLRA 149B) RA 144A, 145, 149B) 1) ace (TF12)
Restrictive Layer F	Present (if present):			
Туре:		Н	dric Soil Present?	✓ Yes □ No
Depth (inches):		,	,	
Dhatas				
Photos	ALCH MIN AND LANGUAGE	IN HIS CONTRACTOR OF THE PARTY		
Photo Name: DE ⁻	ICW354_101513_WET1SW.jpg	Note: DE-1C	-W354-WET1	

Project/Site Constitution	Milepost 81.6	City/County: De	eleware	Sampling Da	ate: 2013/10/15
Applicant/Owner: Williams		State: N	1	Sampling Point: DI	E-1C-W354-UPL1
Investigator(s): RR;KH	USGS Quad: West	Davenport	Section, Townsh	nip, Range: Davenport	
Landform: Hillside		Local F	Relief: Conca	ave Convex 🗸 N	None Slope (%): 8
Subregion: Middle Atlantic	Latitı	ude: 42.433854	Longitude	e:74.90424	atum: NAD 1988
Soil Map Unit Name: Lackawann	a and Bath soils, 15 to 35	percent slopes, ve	ery stony	NWI Classification	n: Not Mapped
Are climatic/hydrologic conditions o	n the site typical for this t	ime of year?	Yes No	(If no, explain in Remark	(S.)
Are Vegetation Soil or Hy	ydrology significantly	disturbed? V	o Are "No	ormal Circumstances" pre	esent? 🗸 Yes 🗌 No
Are Vegetation Soil or Hy	drology naturally pro	oblematic? 🗸 N	o (If needed	, explain any answers in F	Remarks.)
SUMMARY OF FINDINGS	3 - Attach site map	showing sampl	ing point locat	ions, transects, impo	rtant features, etc.
Hydrophytic Vegetation Present?	☐ Yes 🗸 No				
Hydric Soil Present?	☐ Yes 🗸 No	Is the Samp		☐ Yes ✓	No
Wetland Hydrology Present?	Yes 🗸 No	within a we	uanu :		
Remarks: Upland plot		1			
·					
Field Wetland Classification:					
HYDROLOGY					
Wetland Hydrology Indicator	'S				
Primary Indicators (minimum of one is re				Secondary Indicators (min	nimum of two required)
Surface Water (A1)		ned Leaves (B9)		Surface Soil Cracks (
High Water Table (A2)	☐ Aquatic Fau			Drainage Patterns (B	
Saturation (A3)	☐ Marl Depos	Sulfide Odor (C1)		Moss Trim Lines (B16	
Water Marks (B1)		nizospheres on Living	Poots (C3)	Dry-Season Water Ta	• •
Sediment Deposits (B2)		f Reduced Iron (C4)	110013 (03)	Crayfish Burrows (C8	
Drift Deposits (B3)		Reduction in Tilled S	oils (C6)	Saturation Visible on	5 , , ,
☐ Algal Mat or Crust (B4)☐ Iron Deposits (B5)		Surface (C7)	()	Stunted or Stressed F	` '
Inundation Visible on Aerial Imager		ain in Remarks)		Geomorphic Position	
Sparsely Vegetated Concave Surfa	, (2.)	,		Shallow Aquitard (D3	•
oparacity vegetated correave curia	GC (DO)			Microtopographic Rel	
				FAC-Neutral Test (D	
				Other (Explain in Rer	marks)
Field Observations:					
Surface Water Present:	Yes V No Depth (inches):			
Water Table Present:		inches):			
Saturation Present:	Yes V No Depth (inches):	Wet	land Hydrology Prese	ent? Yes 🗸 No
Describe Recorded Data (stream g	auge, monitoring well, ac	erial photos, previou	us inspections), if	available:	
Remarks:					

Tree Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
Acer saccharum		65	YES	FACU
Tilia americana		15	NO	FACU
Betula alleghaniensis		5	NO	FAC
	Total Cover:	85		
Sapling Stratum				
Plot Size: 15 feet				
Scientific Name		% Cover	Dominant	Indicator
Fagus grandifolia		5	YES	FACU
	Total Cover:			
Shrub Stratum				
Plot Size: 15 feet		ı	ı	1
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
Herb Stratum				
Plot Size: 5 feet				
Scientific Name		% Cover	Dominant	Indicator
Dryopteris intermedia		5	YES	FAC
Carex pennsylvanicum		3	YES	UPL
Tiarella cordifolia		4	YES	FACU
	Total Cover:	12	<u> </u>	
Vine Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			

Dominance Test Worksheet Number of Dominant Species	:	Prevalence Inde	x Workshe		tiply by:	
that are OBL, FACW, or FAC:	1 (A)	OBL Species:	0	x 1 =	0	=
Total Number of Dominant	5 (B)	FACW Species:	0	x 2 =	0	=
Species Across All Strata: Percent of Dominant Species that	5 (B)	FAC Species:	10	x 3 =	30	-
are OBL, FACW, or FAC:	20 (A/B)	FACU Species:	84	x 4 =	336	_
, , , , , , , , , , , , , , , , , , ,		UPL Species:	3	x 5 =	15	=
		Column Totals:	97	(A)	381	(B)
		Prev	/alence Index =	= B/A =	3.93	_
Hydrophytic Vegetation Indi	cators:					
1 - Rapid Test for Hydrophytic Veg	etation					
2 - Dominance Test is > 50%		Hydrophytic Veg	etation Pre	sent?	☐ Yes 🗸	No
☐ 3 - Prevalance is ≤ 3.0						
4 - Morphological Adaptations¹ (Pr data in Remarks or on a separate						
☐ Problematic Hydrophytic Vegetation	on¹ (Explain)					
¹ Indicators of hydric soil and wetland unless disturbed or problematic.	hydrology must be present					
Remarks:						

Depth	Matrix		Redo	x Feat	ıres			
(in.)	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²	Texture	Remarks
)-3	10YR 3/3	100				None	LOAM	
-12	7.5YR 3/4	100				None	LOAM	
2-16	7.5YR 4/4	100				None	LOAM	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 Indica	tors:	Indicators for Problematic Hydric Soils
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A- Stratified Layers (A5) Depleted Below Darl Thick Dark Surface (Sandy Mucky Minera Sandy Gleyed Matrix Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (L	Loamy Mucky Mineral (F1) (LRR K, L) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) (S1) Other (Explain in Remarks)	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)
Restrictive Layer	r Present (if present):	
Type:		Hydric Soil Present? ☐ Yes ☑ No
Depth (inches):		
Photos	THE RESIDENCE OF THE PARTY OF T	AND THE PARTY OF T
Photo Name: D	DE1CW354_101513_UPL1W.jpg	Note: DE-1C-W354-UPL1

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	n, Township, Range: Franklin
Landform: Hilside		Loc	cal Relief:	✓ Concave ☐ Convex ☐ None Slope (%): 4
Subregion: Middle Atlantic	Latitu	de: 42.37577	72	Longitude: -75.14748 Datum: NAD 1983
Soil Map Unit Name: Morris and	Volusia soils, 2 to 10 perc	ent slopes, ve	ry stony	NWI Classification: Not Mapped
Are climatic/hydrologic conditions o	n the site typical for this ti	me of year?	✓ Yes	☐ No (If no, explain in Remarks.)
Are Vegetation Soil or Hy	ydrology significantly	disturbed?	No	Are "Normal Circumstances" present? ✓ Yes No
Are Vegetation Soil or Hy	drology naturally pro	blematic?	No	If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS	3 - Attach site map	showing sar	npling po	int locations, transects, important features, etc.
Hydrophytic Vegetation Present?	✓ Yes	le the Sa	mplad A	00
Hydric Soil Present?	✓ Yes	Is the Sar within a \		
Wetland Hydrology Present?	✓ Yes			
Remarks:				
Field Wetland Classification: PFO)			
HYDROLOGY				
Wetland Hydrology Indicator	'S			
Primary Indicators (minimum of one is re	equired; check all that apply)			Secondary Indicators (minimum of two required)
Surface Water (A1)	✓ Water Stain	, ,		Surface Soil Cracks (B6)
High Water Table (A2)	Aquatic Fau			Drainage Patterns (B10)
Saturation (A3)	Marl Deposi			Moss Trim Lines (B16)
Water Marks (B1)		ulfide Odor (C1) izospheres on Li	vina Poote ((Dry-Season Water Table (C2)
Sediment Deposits (B2)		Reduced Iron (C		Grayiish Burrows (00)
Drift Deposits (B3)		Reduction in Tille	•	Saturation Visible on Aerial Imagery (C9)
☐ Algal Mat or Crust (B4)☐ Iron Deposits (B5)		Surface (C7)	ou ooo (oo)	Stunted or Stressed Plants (D1)
Inundation Visible on Aerial Imager		in in Remarks)		Geomorphic Position (D2)
Sparsely Vegetated Concave Surfa	, (51)	,		Shallow Aquitard (D3)
	35 (25)			Microtopographic Relief (D4)
				FAC-Neutral Test (D5)
				Other (Explain in Remarks)
Field Observations:				
		nches): .5		
		nches): 0		
Saturation Present:	Yes No Depth (i	nches): 0		Wetland Hydrology Present? ✓ Yes No
Describe Recorded Data (stream g	auge, monitoring well, ae	rial photos, pre	evious inspe	ections), if available:
Remarks:				

VEGETATION					
Tree Stratum					
Plot Size:	30 feet				
Scientific Name			% Cover	Dominant	Indicator
Acer rubrum			30	YES	FAC
Pinus strobus			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		1	ı	1
Scientific Name			% Cover	Dominant	Indicator
Crataegus crus	s-galli		5	NO	FAC
Spiraea alba			5	NO	FACW
Lyonia ligustrin	а		30	YES	FACW
		Total Cover:	40		
Herb Stratum					
Plot Size:	5 feet		24.0		
Scientific Name			% Cover	Dominant	Indicator
Onoclea sensil	oilis		15	YES	FACW
Euthamia gram	ninifolia		5	YES	FAC
		Total Cover:	20	l	
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: Total Number of Dominant Species Across All Strata: Percent of Dominant Species that	4 (A) 4 (B)	Prevalence II Total % Cover of OBL Species: FACW Species: FAC Species:	ndex Workshe : 0 50 40		tiply by: 0 100 120	
are OBL, FACW, or FAC:	100 (A/B)	FACU Species:	5	x 4 =	20	=
		UPL Species: Column Totals:	95	x 5 = (A)	0 240	(P)
			Prevalence Index =	• •	2.53	_ (B) -
Hydrophytic Vegetation Indi	cators:					
1 - Rapid Test for Hydrophytic Veg	getation					
✓ 2 - Dominance Test is > 50%		Hydrophytic '	Vegetation Pre	esent?	✓ Yes	No
✓ 3 - Prevalance is ≤ 3.0			_			
4 - Morphological Adaptations¹ (Pr data in Remarks or on a separate						
Problematic Hydrophytic Vegetation	on¹ (Explain)					
¹ Indicators of hydric soil and wetland unless disturbed or problematic.	l hydrology must be present					
Remarks:						

Depth	Matrix		Redox Features					
(in.)	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4	7.5YR 4/2	100					SILT LOAM	
1-14	7.5YR 4/2	95	7.5YR 4/6	5	С	PL	SILT LOAM	
14-18	7.5YR 5/2	85	7.5YR 5/6	15	С	М	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:		Indicators for Problematic Hydric Soils
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A1 Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA	Depleted Dark Surface (F7) Redox Depressions (F8) Other (Explain in Remarks)	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)
Restrictive Layer Present Type: Depth (inches):	(if present):	Hydric Soil Present? ✓ Yes ☐ No
Photos		
Photo Name: DE1CW363	3. 121213. WET1N ing	Note: DF-1C-W363-WET1

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	n, Township, Range: Franklin
Landform: Drainageway/toe of	slope	Lo	cal Relief:	✓ Concave ☐ Convex ☐ None Slope (%): 3
Subregion: Middle Atlantic	Latitu	ude: 42.37512	20	Longitude: -75.15111 Datum: NAD 1983
Soil Map Unit Name: Morris fla	aggy silt loam, 0 to 3 percen	t slopes		NWI Classification: Not Mapped
Are climatic/hydrologic conditions	s on the site typical for this t	ime of year?	✓ Yes	☐ No (If no, explain in Remarks.)
Are Vegetation Soil on	Hydrology significantly	disturbed?	No	Are "Normal Circumstances" present? ✓ Yes ✓ No
Are Vegetation Soil or	Hydrology	oblematic?	No	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDING	GS - Attach site map	showing sar	mpling po	int locations, transects, important features, etc.
Hydrophytic Vegetation Present	? ✓ Yes 🗌 No	le the Sa	mplad A	702
Hydric Soil Present?	✓ Yes ☐ No	Is the Sar within a \		
Wetland Hydrology Present?	✓ Yes			
Remarks:				
Field Wetland Classification: P	SS			
HYDROLOGY				
Wetland Hydrology Indica	tors			
Primary Indicators (minimum of one	is required; check all that apply)			Secondary Indicators (minimum of two required)
Surface Water (A1)		ned Leaves (B9)		Surface Soil Cracks (B6)
✓ High Water Table (A2)	☐ Aquatic Fau			✓ Drainage Patterns (B10)
✓ Saturation (A3)	☐ Marl Depos			Moss Trim Lines (B16)
Water Marks (B1)		Sulfide Odor (C1) nizospheres on Li	vina Booto (Dry-Season Water Table (C2)
Sediment Deposits (B2)		f Reduced Iron (C		Grayhon Barrows (66)
Drift Deposits (B3)		Reduction in Till	•	Saturation Visible on Aerial Imagery (C9)
☐ Algal Mat or Crust (B4)☐ Iron Deposits (B5)		Surface (C7)	00 00110 (00)	Stunted or Stressed Plants (D1)
Inundation Visible on Aerial Ima		ain in Remarks)		✓ Geomorphic Position (D2)
Sparsely Vegetated Concave Su	gory (21)			Shallow Aquitard (D3)
operacity regulated contains of	Midde (20)			Microtopographic Relief (D4)
				FAC-Neutral Test (D5)
				Other (Explain in Remarks)
Field Observations:				
Surface Water Present:	Yes V No Depth (inches):		
Water Table Present:	✓ Yes	inches): 0		
Saturation Present:	Yes No Depth (inches): 0		Wetland Hydrology Present? ✓ Yes No
Describe Recorded Data (stream	n gauge, monitoring well, ae	erial photos, pre	evious insp	ections), if available:
Remarks:				

	% Cover	Dominant	Indicator
Total Cover:			
	% Cover	Dominant	Indicator
	5	YES	FAC
Total Cover:	5		
	1	1	ı
	% Cover	Dominant	Indicator
	30	YES	FACW
	30	YES	FACW
Total Cover:	60		
	% Cover	Dominant	Indicator
	5	NO	OBL
	20	YES	OBL
	5	NO	OBL
	20	YES	OBL
	20	YES	FACW
	5	NO	FACW
	10	NO	OBL
	10	NO	OBL
Total Cover:	95		
	% Cover	Dominant	Indicator
	Total Cover:	Total Cover: % Cover 5 7	% Cover Dominant 5 YES Total Cover: 5 0 % Cover Dominant 30 YES 30 YES Total Cover: 60 Dominant 5 NO 20 YES 5 NO 20 YES 20 YES 20 YES 5 NO 10 NO 10 NO 10 NO 10 NO

Dominance Test Worksheet Number of Dominant Species that are OBL, FACW, or FAC:	6 (A)	Prevalence Index		Mul	tiply by:	-
Total Number of Dominant Species Across All Strata:	6 (B)	OBL Species: FACW Species:	70 85	x 1 = x 2 =	70 170	-
Percent of Dominant Species that		FAC Species:	5	x 3 =	15	_
are OBL, FACW, or FAC:	100 (A/B)	FACU Species:	0	x 4 =	0	_
		UPL Species:	0	x 5 =	0	_
		Column Totals:	160	(A)	255	(B)
		Prev	alence Index =	= B/A =	1.59	-
Hydrophytic Vegetation Indi 1 - Rapid Test for Hydrophytic Veg 2 - Dominance Test is > 50% 3 - Prevalance is ≤ 3.0 4 - Morphological Adaptations¹ (Prdata in Remarks or on a separate Problematic Hydrophytic Vegetations¹ (Prdata in Remarks or on a separate) 1 Indicators of hydric soil and wetland unless disturbed or problematic.	ovide supporting sheet) on¹ (Explain)	Hydrophytic Veg	etation Pre	esent?	✓ Yes □	No
Remarks:						

Depth	Matrix		Redo	ox Feat	ures		Texture	
(in.)	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		Remarks
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	С	М	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 Indicat	ors:		Indicators for Problematic Hydric Soils
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4 Stratified Layers (A5) Depleted Below Dark Thick Dark Surface (A Sandy Mucky Mineral Sandy Gleyed Matrix Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LF	Surface (A11) A12) I (S1) (S4) RR R, MLRA 149B)	Polyvalue Below Surface (S8) (LRR R, MLF Thin Dark Surface (S9) (LRR R, MLRA 149 Loamy Mucky Mineral (F1) (LRR K, L) Loamy Gleyed Matrix (F2) ✓ Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Other (Explain in Remarks)	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)
Restrictive Layer	Present (if pres	sent):	
Type:			Hydric Soil Present? ✓ Yes ☐ No
Depth (inches):			Tryuno don Freschi: 🖭 Fes 🗀 No
Photos			
Photo Name: DE	E1CW363_121213	3 WET2NW.jpg Not	ote: DE-1C-W363-WET2

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: Frankl	in	Section	n, Township, Range: Franklin
Landform: Plateau		Loc	cal Relief:	✓ Concave ☐ Convex ☐ None Slope (%): 1
Subregion: Middle Atlantic	Latitu	de: 42.37469	95	Longitude: -75.15243 Datum: NAD 1983
Soil Map Unit Name: Morris flag	gy silt loam, 0 to 3 percent	slopes		NWI Classification: Not Mapped
Are climatic/hydrologic conditions of	on the site typical for this ti	me of year?	✓ Yes	☐ No (If no, explain in Remarks.)
Are Vegetation Soil or F	Hydrology significantly	disturbed?	No	Are "Normal Circumstances" present? ✓ Yes No
Are Vegetation Soil or H	ydrology naturally pro	blematic?	No	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDING	S - Attach site map	showing sar	npling po	int locations, transects, important features, etc.
Hydrophytic Vegetation Present?	✓ Yes No			
Hydric Soil Present?	✓ Yes No	Is the Sar within a \	-	No.
Wetland Hydrology Present?	✓ Yes No	within a v	velianu	
Remarks:				
Field Wetland Classification: PEI	M			
HYDROLOGY				
Wetland Hydrology Indicato				
Primary Indicators (minimum of one is Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Image Sparsely Vegetated Concave Surface	Water Stain Aquatic Fau Marl Deposi Hydrogen Si ✓ Oxidized Rh Presence of Recent Iron Thick Muck Try (B7) Water Stain		24)	Saturation Visible on Aerial Imagery (C9)
	Yes No Depth (i	nches): 0 nches): 0	evious insp	Wetland Hydrology Present? ✓ Yes ☐ No ections), if available:

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		1		1
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
Herb Stratum				
Plot Size: 5 feet				
Scientific Name		% Cover	Dominant	Indicator
Epilobium coloratum		5	NO	OBL
Phleum pratense		5	NO	FACU
Carex vulpinoidea		20	YES	OBL
Symphoricarpos sp		10	NO	NONE
Onoclea sensibilis		10	NO	FACW
Juncus effusus		30	YES	OBL
Carex scoparia		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: 3 (A)		Prevalence Ind	lex Workshe	ultiply by:		
Total Number of Dominant	(/ t/)	OBL Species:	55	x 1 =	55	_
Species Across All Strata:	3 (B)	FACW Species:	30	x 2 =	60	=
Percent of Dominant Species that		FAC Species:	0	x 3 =	0	-
are OBL, FACW, or FAC:	100 (A/B)	FACU Species:	5	x 4 =	20	=
		UPL Species:	0	x 5 =	0	=
		Column Totals:	90	(A)	135	(B)
		Pro	evalence Index =	= B/A =	1.50	-
Hydrophytic Vegetation Indi 1 - Rapid Test for Hydrophytic Veg 2 - Dominance Test is > 50% 3 - Prevalance is ≤ 3.0 4 - Morphological Adaptations¹ (Prodata in Remarks or on a separate Problematic Hydrophytic Vegetati	Hydrophytic Ve	egetation Pre	esent?	✓ Yes □	No	
Remarks:						

Depth	Matrix		Redox Features					
(in.)	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²	Texture	Remarks
-1	5YR 3/2	100					ORGANIC	
-5	7.5YR 4/2	95	7.5YR 4/6	5	С	PL	FINE SANDY LOAM	
-18	7.5YR 4/2	80	7.5YR 4/6	20	С	M,PL	FINE SANDY LOAM	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains. ² Loc

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:		Indicators for Problematic Hydric Soils
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, M	☐ Depleted Dark Surface (F7) ☐ Redox Depressions (F8) ☐ Other (Explain in Remarks)	Coast: Prairie Redox (A16) (LRR K, L, R) R K, L) 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)
Restrictive Layer Pres	ent (if present):	
Type:		Hydric Soil Present? ✓ Yes ☐ No
Depth (inches):		
Photos		
FIIOLOS		
Photo Name: DE1CW	363_121213_WET3N.jpg	Note: DE-1C-W363-WET3

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, T	Township, Range: Franklin							
Landform: Hillside Local Relief:	Concave ☐ Convex ✔ None Slope (%):5							
Subregion: Middle Atlantic Latitude: 42.375265 Lor	ngitude: -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? $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	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 n	needed, explain any answers in Remarks.)							
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.								
Hydrophytic Vegetation Present? ☐ Yes ✓ No Is the Sampled Area	•							
Hydric Soil Present?	☐ Yes ☑ No							
Wetland Hydrology Present? ☐ Yes ✓ No								
Remarks: Upland Plot								
Field Wetland Classification:								
HYDROLOGY								
Wetland Hydrology Indicators								
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)							
Surface Water (A1) Water Stained Leaves (B9)	Surface Soil Cracks (B6)							
High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) Marl Deposits (B15)	Drainage Patterns (B10)							
	Moss Trim Lines (B16)							
Opidinal Phinashana and Living Parks (00)	Dry-Season Water Table (C2)							
Processes of Reduced Iron (C4)	Crayfish Burrows (C8)							
☐ Drift Deposits (B3) ☐ Algal Mat or Crust (B4) ☐ Recent Iron Reduction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)							
☐ Iron Deposits (B5) ☐ Thick Muck Surface (C7)	Stunted or Stressed Plants (D1)							
☐ Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks)	Geomorphic Position (D2)							
Sparsely Vegetated Concave Surface (B8)	Shallow Aquitard (D3)							
	Microtopographic Relief (D4)							
	FAC-Neutral Test (D5)							
	Other (Explain in Remarks)							
Field Observations:								
Surface Water Present: ☐ Yes ✔ No Depth (inches):								
Water Table Present: ☐ Yes ✔ No Depth (inches):								
Saturation Present: Yes V No Depth (inches):	Wetland Hydrology Present? ☐ Yes ✓ No							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection	ons), if available:							
Remarks:								

	% Cover	Dominant	Indicator
	10	NO	FACU
	25	YES	FAC
	15	YES	FACU
	10	NO	FACU
Total Cover:	60		
	% Cover	Dominant	Indicator
	10	YES	FACU
	5	YES	FAC
Total Cover:	15	I	
	% Cover	Dominant	Indicator
Total Cover:			
	% Cover	Dominant	Indicator
	2	NO	FACU
Total Cover:	2		•
	% Cover	Dominant	Indicator
	Total Cover:	10 25 15 10 Total Cover: 60 % Cover 10 5 Total Cover: 15 % Cover Total Cover: 2 Total Cover: 2	25

Dominance Test Worksheet Number of Dominant Species	:	Prevalence Inde	ex Worksheet:	: Multiply by:	
that are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species that are OBL, FACW, or FAC:	2(A) 4(B) 50(A/B)	OBL Species: FACW Species: FAC Species: FACU Species: UPL Species:	0 x 30 x 47 x 0 x	(1 = 0 (2 = 0 (3 = 90 (4 = 188 (5 = 0	- - - - -
		Column Totals:	valence Index = B	A) <u>278</u> /A = 3.61	_ (B)
Hydrophytic Vegetation Indi 1 - Rapid Test for Hydrophytic Veg 2 - Dominance Test is > 50% 3 - Prevalance is ≤ 3.0 4 - Morphological Adaptations¹ (Prodata in Remarks or on a separate Problematic Hydrophytic Vegetatic ¹Indicators of hydric soil and wetland unless disturbed or problematic.	Hydrophytic Veç	getation Prese	ent? □Yes ☑	No	
Remarks:					

Depth	Matrix		Redox Features					
(in.)	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²	Texture	Remarks
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:	Indicators for Problematic Hydric Soils
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Redox (S5) Stripped Matrix (S4) Dark Surface (S7) (LRR R, MLRA 149B) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) Loamy Mucky Mineral (F1) (LRR K, L) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Other (Explain in Remarks) Stripped Matrix (S6) Dark Surface (S7) (LRR R, 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)
Restrictive Layer Present (if present):	
Туре:	Hydric Soil Present? ☐ Yes ☑ No
Depth (inches):	Tryunc con resent: - res - No
Photos	DEPOSITE CONTROL CONTROL
Photo Name: DE1CW363_121213_UPL1N.jpg Note:	DE-1C-W363-UPL1

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: Frank	in	Section	on, Township, Range: Franklin
Landform: toe of slope		Lo	cal Relief:	✓ Concave ☐ Convex ☐ None Slope (%): 1
Subregion: Middle Atlantic	Latitu	de: 42.3742	71	Longitude: -75.15453 Datum: NAD 1983
Soil Map Unit Name: Morris flag	gy silt loam, 3 to 8 percent	slopes		NWI Classification: Not Mapped
Are climatic/hydrologic conditions	on the site typical for this ti	me of year?	✓ Yes	☐ No (If no, explain in Remarks.)
Are Vegetation Soil or H	Hydrology significantly	disturbed?	No	Are "Normal Circumstances" present? ✓ Yes ☐ No
Are Vegetation Soil or H	lydrology naturally pro	blematic?	No	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDING	S - Attach site map	showing sar	npling po	pint locations, transects, important features, etc.
Hydrophytic Vegetation Present?	✓ Yes	la tha Car		
Hydric Soil Present?	✓ Yes No	Is the Sar within a \	-	I.Z. Vaa Na
Wetland Hydrology Present?	✓ Yes No	Within a	voliana	•
Remarks:				
Field Wetland Classification: PE	M			
HYDROLOGY				
Wetland Hydrology Indicato	ors			
Primary Indicators (minimum of one is	required; check all that apply)			Secondary Indicators (minimum of two required)
Surface Water (A1)		ed Leaves (B9)		Surface Soil Cracks (B6)
✓ High Water Table (A2)	☐ Aquatic Fau			Drainage Patterns (B10)
Saturation (A3)	☐ Marl Deposi			Moss Trim Lines (B16)
Water Marks (B1)		ulfide Odor (C1)	vina Dooto /	Dry-Season Water Table (C2)
Sediment Deposits (B2)		izospheres on Li Reduced Iron (C		Grayiish Barrows (66)
Drift Deposits (B3)		Reduction in Till	•	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Iron Deposits (B5)		Surface (C7)	00 00110 (00	Stunted or Stressed Plants (D1)
Inundation Visible on Aerial Image		ain in Remarks)		✓ Geomorphic Position (D2)
Sparsely Vegetated Concave Surf	., (2.)	,		Shallow Aquitard (D3)
operatory vegetated contents can	400 (20)			Microtopographic Relief (D4)
				FAC-Neutral Test (D5)
				Other (Explain in Remarks)
Field Observations:				
Surface Water Present:	Yes 🗸 No Depth (i	nches):		
Water Table Present:	Yes No Depth (i	nches): 0		
Saturation Present:	Yes No Depth (i	nches): 0		Wetland Hydrology Present? ✓ Yes No
Describe Recorded Data (stream	gauge, monitoring well, ae	rial photos, pre	evious insp	ections), if available:
Remarks:				

Tree Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
		70 00101		
	Total Cover:	L		
Sapling Stratum				
Plot Size: 15 feet				
Scientific Name		% Cover	Dominant	Indicator
Shrub Stratum	Total Cover:			
Plot Size: 15 feet				
Scientific Name		% Cover	Dominant	Indicator
CO.O.T.A.IIO HAIIIO		70 COVE	20	maroator
	Total Cover:	I		
Herb Stratum				
Plot Size: 5 feet				
Scientific Name		% Cover	Dominant	Indicator
Phleum pratense		10	NO	FACU
Euthamia graminifolia		20	YES	FAC
Juncus effusus		20	YES	OBL
Unknown grass		20	YES	NONE
Carex scoparia		30	YES	FACW
Rubus hispidus		10	NO	FACW
<u>'</u>	Total Cover:	110		
Vine Stratum	Total Cover.	110		
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
Coloniallo Hallic		/0 OOVEI	Dominant	marcator

Numbe that are Total N Species Percen are OB	nance Test Wester of Dominant Speed OBL, FACW, or Further of Dominant Stratate of Dominant Speed L, FACW, or FAC:	ecies FAC: nt a: ecies that	3 (A) 4 (B) 75 (A))		OBL S FACW FAC S FACU UPL S	% Cover of: Species: Species: Species: Species: Species: Species:	2	x1 = x2 = x3 = 0 x4 = 0 x5 = 0 (A)	80 60 40
1 - F 2 - C 3 - F 4 - N data Prote Indicate unless	Rapid Test for Hydrominance Test is Prevalance is ≤ 3.0 Morphological Adaptin Remarks or on Diematic Hydrophystors of hydric soil disturbed or problematic disturbed or problematic Hydrophystors of hydric soil	rophytic > 50% ptations¹ a separ rtic Vege and wet	Vegetation (Provide suppor ate sheet) tation¹ (Explain)	J	resent	Hydro	ophytic V	egetation	Present?	? ✓ Yes □ No
SOIL	ss:									
Profile	Description: (Describ	e to the dept	n neede	d to do	cument	the indica	tor or confi	rm the ab	sence of indicators.)
Depth	Matrix	0/		lox Feat		1002	T	vturo		Domarko
(in.)	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²		xture		Remarks
0-6	10YR 2/1	100					LOAM		refusal @6"	- госку
¹ Type:	C=Concentration,	, D=Depl	etion, RM=Redu	ced Matr	ix, CS=C	overed Sa	and or Coate	ed Sand Grair	ıs. ² L	Location: PL=Pore Lining, M=Matrix.
Hydri	c Soil Indicator	s:						Inc	licators fo	or Problematic Hydric Soils
His Bla	stosol (A1) stic Epipedon (A2) ack Histic (A3) drogen Sulfide (A4) atified Layers (A5) pleted Below Dark Su	•	☐ Thir ✓ Loa ☐ Loa ☐ Dep ☐ Rec	n Dark Sur my Mucky my Gleyed eleted Matr lox Dark S	face (S9) (Mineral (F I Matrix (F2 rix (F3)	(LRR R, ML 1) (LRR K,	•	9B)	Coast: Prairi 5 cm Mucky Dark Surface Polyvalue Be	A10) (LRR K, L, MLRA 149B) fe Redox (A16) (LRR K, L, R) Peat or Peat (S3) (LRR K, L, R) e (S7) (LRR K, L, M) elow Surface (S8) (LRR K, L) urface (S9) (LRR K, L)
Sai	ck Dark Surface (A12 ndy Mucky Mineral (S ndy Gleyed Matrix (S4 ndy Redox (S5) ipped Matrix (S6) rk Surface (S7) (LRR	61) 4)	Rec	•	ssions (F8)	F7)			Iron-Mangan Piedmont Flo Mesic Spodi Red Parent I Very Shallow	nese Masses (F12) (LRR K, L, R) codplain Soils (F19) (MLRA 149B) c (TA6) (MLRA 144A, 145, 149B) Material (F21) v Dark Surface (TF12) ain in Remarks)

Restrictive Layer Present (if present):		
Type:	Hydria Sail Brasant?	⊻ Yes □ No
Depth (inches):	Hydric Soil Present?	✓ Yes □ No
Remarks:	1	

Photos



DE1CW364_121213_WET1W.jpg Photo Name: Note: DE-1C-W364-WET1

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 Lo	ngitude: -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 n	needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sampling point	t locations, transects, important features, etc.
Hydrophytic Vegetation Present? ☐ Yes ✓ No	
Hydric Soil Present?	☐ Yes ☑ No
Wetland Hydrology Present?	
Remarks: Upland Plot	
Field Wetland Classification:	
HYDROLOGY	
Wetland Hydrology Indicators	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1) Water Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) Marl Deposits (B15)	Drainage Patterns (B10)
Saturation (A3) Water Marks (B1) Hydrogen Sulfide Odor (C1)	
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3)	Crayfish Burrows (C8)
Drift Deposits (B3) Presence of Reduced Iron (C4)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6)	Stunted or Stressed Plants (D1)
☐ Iron Deposits (B5) ☐ Thick Muck Surface (C7)	Geomorphic Position (D2)
☐ Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks)	Shallow Aquitard (D3)
Sparsely Vegetated Concave Surface (B8)	Microtopographic Relief (D4)
	FAC-Neutral Test (D5)
	Other (Explain in Remarks)
Field Observations:	
Surface Water Present: Yes V No Depth (inches):	
Water Table Present:	
Saturation Present: Yes V No Depth (inches):	Wetland Hydrology Present? ☐ Yes ✓ No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection	ions), if available:
Remarks:	

Tree Stratum		1		l
Plot Size: 30 feet Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
Sapling Stratum				
Plot Size: 15 feet				
Scientific Name		% Cover	Dominant	Indicator
	7.10			
Shrub Stratum	Total Cover:			
Plot Size: 15 feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
Herb Stratum		T		
Plot Size: 5 feet Scientific Name		% Cover	Dominant	Indicator
Phleum pratense		20 80	YES YES	FACU UPL
unknown veg		80	TES	UPL
	Total Cover:	100		
Vine Stratum		I		I
Plot Size: 30 feet		0/ 0	D 1	
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			I.
Dominance Test Worksheet:	Prevalence Index	Worksheet:		
Number of Dominant Species	Total % Cover of:		Multiply by:	_
that are OBL, FACW, or FAC: 0_(A) Total Number of Dominant	OBL Species:		1 =0	_
Species Across All Strata: 2 (B)	FACW Species:		2 = 0	_
Percent of Dominant Species that are OBL, FACW, or FAC: 0 (A/B)	FAC Species: FACU Species:		3 = <u>0</u> 4 = 80	_
are OBL, FAGW, OF AG.	UPL Species:		5 = 400	
	Column Totals:	100 (A) 480	(B)
	Preva	lence Index = B/A	A = 4.80	<u> </u>
Hydrophytic Vegetation Indicators:				
☐ 1 - Rapid Test for Hydrophytic Vegetation				
2 - Dominance Test is > 50%	Hydrophytic Vege	etation Preser	nt? ☐ Yes 🗹	No
☐ 3 - Prevalance is ≤ 3.0	i i yai opiiyilo rogo	, tation 1 1000.	. – 100 –	
4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)				
Problematic Hydrophytic Vegetation¹ (Explain)				
¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.				
Remarks:				

SOII

SUIL								
Profile	Description: ((Descri	be to the depth	neede	d to do	cument	the indicator or o	confirm the absence of indicators.)
Depth	Matrix	Matrix Redox Features						
(in.)	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²	Texture	Remarks
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=Dep	letion, RM=Reduc	ed Matr	ix, CS=Co	overed S	and or Coated Sand	Grains. ² Location: PL=Pore Lining, M=Matrix.
Hydri	c Soil Indicato	rs:						Indicators for Problematic Hydric Soils
His Bla Hyc Stra Dep	tosol (A1) tic Epipedon (A2) ck Histic (A3) drogen Sulfide (A4) atified Layers (A5) bleted Below Dark S ck Dark Surface (A1 ady Mucky Mineral (3 ady Gleyed Matrix (S ady Redox (S5) pped Matrix (S6) k Surface (S7) (LRF	2) S1) S4) R R, MLRA	Thin Loar Loar Depl Redd Depl Redd Othe	Dark Sur ny Mucky ny Gleyed eted Matr ox Dark S eted Dark ox Depres or (Explain	face (S9) (I Mineral (F- d Matrix (F2 rix (F3) Jourface (F6) of Surface (F8) on in Remark	LRR R, M 1) (LRR K 2) - - - - - - - - - - - - - - - - - -	R R, MLRA 149B) LRA 149B) , L) urbed or problematic.	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)
Туре	: h (inches):	Presen	t (if present):				Нус	dric Soil Present? ☐ Yes ☑ No

Photos



DE1CW364_121213_UPL1SW.jpg Photo Name: Note: DE-1C-W364-UPL1

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: Oneor	nta	Section	on, Township, Range:Davenport
Landform: Drainageway		Lo	cal Relief:	✓ Concave ☐ Convex ☐ None Slope (%): 1
Subregion: Middle Atlantic	Latitu	ide: 42.41949	90	Longitude: -75.00725 Datum: NAD 1983
Soil Map Unit Name: Onteora	channery silt loam, 3 to 8 pe	ercent slopes		NWI Classification: Not mapped
Are climatic/hydrologic conditions	on the site typical for this ti	me 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 I	Hydrology naturally pro	blematic?	₽ No	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDING	S - Attach site map	showing sar	npling po	pint locations, transects, important features, etc.
Hydrophytic Vegetation Present?	Yes No	Is the Sai	mpled A	roa
Hydric Soil Present?	✓ Yes No	within a		
Wetland Hydrology Present?	✓ Yes No			•
Remarks:		1		
Field Wetland Classification: PS	SS			
HYDROLOGY				
Wetland Hydrology Indicate	ors			
Primary Indicators (minimum of one is	required; check all that apply)			Secondary Indicators (minimum of two required)
Surface Water (A1)		ed Leaves (B9)		Surface Soil Cracks (B6)
✓ High Water Table (A2)	☐ Aquatic Fau			✓ Drainage Patterns (B10)
Saturation (A3)	Marl Deposi			Moss Trim Lines (B16)
Water Marks (B1)		ulfide Odor (C1) iizospheres on Li	vina Poote (Dry-Season Water Table (C2)
Sediment Deposits (B2)		Reduced Iron (C		Craylish Bullows (66)
Drift Deposits (B3)		Reduction in Till	•	Saturation Visible on Aerial Imagery (C9)
☐ Algal Mat or Crust (B4)☐ Iron Deposits (B5)		Surface (C7)		Stunted or Stressed Plants (DT)
Inundation Visible on Aerial Imag		ain in Remarks)		Geomorphic Position (D2)
Sparsely Vegetated Concave Su	(S.)	,		Shallow Aquitard (D3)
	(==)			Microtopographic Relief (D4)
				FAC-Neutral Test (D5)
				Other (Explain in Remarks)
Field Observations:				
Surface Water Present:	Yes 🗸 No Depth (i	nches):		
Water Table Present:	Yes No Depth (i	nches): 2		<u>_</u>
Saturation Present:	Yes No Depth (i	nches): 0		Wetland Hydrology Present? ✓ Yes No
Describe Recorded Data (stream	gauge, monitoring well, ae	rial photos, pre	evious insp	ections), if available:
Remarks:				

VEGETATION			
Tree Stratum	_		
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Acer rubrum	5	YES	FAC
Salix sp	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	1	ı	İ
Scientific Name	% Cover	Dominant	Indicator
Spiraea alba	10	YES	FACW
Viburnum dentatum	10	YES	FAC
Salix sp	30	YES	FAC
Total Cover:	50		
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
Solidago gigantea	10	NO	FACW
Scirpus cyperinus	25	YES	OBL
Onoclea sensibilis	40	YES	FACW
	10	NO	FAC
Carex sp	10		
Carex sp Total Cover:	85		
*			
Total Cover:		Dominant	Indicator

Total Cover:

that are Total No Species Percent	nance Test Works of Dominant Species OBL, FACW, or FAC: umber of Dominant Across All Strata: of Dominant Species _, FACW, or FAC:	7 (A)		Total % OBL S FACW FAC S FACU UPL S	Species: pecies: Species: pecies: n Totals:	25 60 60 0 0 145 nce Index =	x 1 = x 2 = x 3 = x 4 = x 5 = (A)	25 120 180 0 0 325 2.24	- - - - - _ (B)
1 - R 2 - D 3 - P 4 - N data Prob	phytic Vegetation apid Test for Hydrophy ominance Test is > 50 revalance is ≤ 3.0 dorphological Adaptation in Remarks or on a see lematic Hydrophytic Votors of hydric soil and disturbed or problema	vic Vegetation vins¹ (Provide suppo parate sheet) egetation¹ (Explain) wetland hydrology n	Ü	esent	Hydro	ophytic Vegeta	ation Pre	esent?	✓ Yes □	No
Remarks	S:									
SOIL										
Profile	Description: (Description:				cument t	the indicator or	confirm	the abso	ence of indicat	ors.)
	Description: (Description: Matrix Color (Moist) %		h needed		Loc ²	the indicator or Texture	confirm	the abse	ence of indicat	ors.)
Profile Depth	Matrix	Color (Moist)	dox Featu	ires	ı			the abso	Remarks	ors.)
Profile Depth (in.)	Matrix Color (Moist) %	Color (Moist)	dox Featu	ires	ı	Texture	W/d		Remarks	ors.)
Profile Depth (in.) 0-6	Matrix Color (Moist) % 7.5YR 4/2 100	Color (Moist) 2.5Y 5/4	dox Featu % 2	Type ¹	Loc²	Texture SILT LOAM FINE SANDY LOAM	W/c	organic ma	Remarks	
Profile Depth (in.) 0-6 6-20	Matrix Color (Moist) % 7.5YR 4/2 100 5YR 4/2 98	Color (Moist) 2.5Y 5/4	dox Featu % 2	Type ¹	Loc²	Texture SILT LOAM FINE SANDY LOAM	W/d	organic ma	Remarks eterial	Lining, M=Matrix.

Restrictive Layer Present (if present):		
Туре:	Hydric Soil Present?	✓ Yes □ No
Depth (inches):	Tryunc John Tesent:	™ 163 □ NO
Remarks:		

Photos



DE1CW371_042414_WET1SE.jpg Photo Name: Note: DE-1C-W371-WET1

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: Oneo	nta	Sectio	n, Township, Range: Davenport
Landform: Hillside		Lo	cal Relief:	☐ Concave ☐ Convex ✔ None Slope (%): 4
Subregion: Middle Atlantic	Latite	ude: 42.4193	05	Longitude: -75.00770 Datum: NAD 1983
Soil Map Unit Name: Onteora	channery silt loam, 3 to 8 pe	ercent slopes		NWI Classification: Not mapped
Are climatic/hydrologic conditions	on the site typical for this t	ime 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	oblematic?	No (If needed, explain any answers in Remarks.)
SUMMARY OF FINDING	3S - Attach site map	showing sar	mpling po	int locations, transects, important features, etc.
Hydrophytic Vegetation Present	? ☐ Yes 🗸 No	Is the Sa	mplad Ar	00
Hydric Soil Present?	☐ Yes 🗸 No	within a	-	
Wetland Hydrology Present?	☐ Yes 🗸 No			
Remarks: Upland plot				
Field Wetland Classification:				
HYDROLOGY				
Wetland Hydrology Indicat	rors			
Primary Indicators (minimum of one i				Secondary Indicators (minimum of two required)
Surface Water (A1)		ned Leaves (B9)		Surface Soil Cracks (B6)
High Water Table (A2)	Aquatic Fau	una (B13)		Drainage Patterns (B10)
Saturation (A3)	Marl Depos	sits (B15)		Moss Trim Lines (B16)
Water Marks (B1)	Hydrogen S	Sulfide Odor (C1)		Dry-Season Water Table (C2)
Sediment Deposits (B2)	Oxidized R	hizospheres on Li	iving Roots (C	Crayfish Burrows (C8)
Drift Deposits (B3)	Presence o	f Reduced Iron (C	C4)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Recent Iron	Reduction in Till	ed Soils (C6)	Stunted or Stressed Plants (D1)
☐ Iron Deposits (B5)	Thick Muck	Surface (C7)		Geomorphic Position (D2)
Inundation Visible on Aerial Imag	gery (B7) Other (Expl	ain in Remarks)		Shallow Aquitard (D3)
Sparsely Vegetated Concave Su	rface (B8)			☐ Microtopographic Relief (D4)
				FAC-Neutral Test (D5)
				Other (Explain in Remarks)
Field Observations:				
Surface Water Present:	Yes 🗸 No Depth (inches):		
Water Table Present:		inches):		
Saturation Present:		inches):		Wetland Hydrology Present? ☐ Yes ✓ No
Describe Recorded Data (stream	າ gauge, monitoring well, ac	erial photos, pre	evious inspe	ections), if available:
Remarks:				

- A				
Tree Stratum		1	I	
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
Pinus serotina		15	YES	OBL
Carpinus caroliniana		15	NO	FAC
Acer saccharum		5	YES	FACU
Fraxinus americana		20	YES	FACU
	Total Cover:	55		
Sapling Stratum				
Plot Size: 15 feet				
Scientific Name		% Cover	Dominant	Indicator
Carpinus caroliniana		15	YES	FAC
Fraxinus americana		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
Dactylis glomerata		10	YES	FACU
Solidago sp		3	NO	FACU
	Total Cover:	13		
Vine Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
	77333 001011			

Dominance Test Worksheet Number of Dominant Species		Prevalence Index Total % Cover of:	(Workshe		tiply by:	
that are OBL, FACW, or FAC:	2 (A)	OBL Species:	15	x 1 =	15	
Total Number of Dominant Species Across All Strata:	6 (B)	FACW Species:	0	x 2 =	0	
Percent of Dominant Species that	<u> </u>	FAC Species:	30	x 3 =	90	
are OBL, FACW, or FAC:	33 (A/B)	FACU Species:	43	x 4 =	172	
		UPL Species:	0	x 5 =	0	
		Column Totals:	88	(A)	277	(B)
		Preva	alence Index =	= B/A =	3.15	
Hydrophytic Vegetation Indi	cators:					
1 - Rapid Test for Hydrophytic Veg	getation					
2 - Dominance Test is > 50%		Hydrophytic Vege	etation Pre	sent?	☐ Yes 🗹 N	No
☐ 3 - Prevalance is ≤ 3.0						
4 - Morphological Adaptations¹ (Pr data in Remarks or on a separate						
☐ Problematic Hydrophytic Vegetation	on¹ (Explain)					
¹ Indicators of hydric soil and wetland unless disturbed or problematic.	I hydrology must be present					
Remarks:						

Depth	Matrix		Redo	Redox Features				
(in.)	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²	Texture	Remarks
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 Indi	cators:		Inc	licators for Proble	ematic Hydr	ic Soils
Thick Dark Surfa	(A4) (A5) Dark Surface (A11) ce (A12) heral (S1) atrix (S4) S6) (C) (LRR R, MLRA 149B)	Polyvalue Below Surface (S8) (LRR R, MLRA Thin Dark Surface (S9) (LRR R, MLRA 149B) Loamy Mucky Mineral (F1) (LRR K, L) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Other (Explain in Remarks)		2 cm Muck (A10) (LRR Coast: Prairie Redox (A 5 cm Mucky Peat or Pea Dark Surface (S7) (LRF Polyvalue Below Surface Thin Dark Surface (S9) Iron-Manganese Masse Piedmont Floodplain Sc Mesic Spodic (TA6) (ML Red Parent Material (F2 Very Shallow Dark Surfa Other (Explain in Rema	a16) (LRR K, L, I at (S3) (LRR K, R K, L, M) be (S8) (LRR K, (LRR K, L) bis (F12) (LRR K, bils (F19) (MLRA LRA 144A, 145, 21)	R) L, R) L) L, R)
Postriotivo I o	or Procent (if proce					
·	er Present (if prese	inty:				
Туре:			Hydric	Soil Present?	☐ Yes	✓ No
Depth (inches):			11,510			
Photos						
Photo Name:	DE1CW371_042414_	UPL1S.jpg Note:	DE-1C-W37	1-UPL1		

Project/Site Constitution	Milepost 76.87419	City/County: Dela	aware	Sampling Date: 2	2014/05/05
Applicant/Owner: Williams		State: NY		Sampling Point: DE-1C-V	V375A-WET1
Investigator(s): RR;KH	USGS Quad: West I	Davenport	Section, Township	o, Range: Davenport	
Landform: Hillside		Local R	elief: 🗸 Concave	e Convex None	Slope (%): 2
Subregion: Middle Atlantic	Latitu	de: 42.423173	Longitude:	-74.98797 Datum:	NAD 1983
Soil Map Unit Name: Halcott, Mc	ongaup, and Vly soils, 2 to	15 percent slopes,	very rocky	NWI Classification: Not	mapped
Are climatic/hydrologic conditions of	on the site typical for this ti	me of year?	Yes No ((If no, explain in Remarks.)	
Are Vegetation Soil or H	lydrology significantly	disturbed? V No	Are "Nor	mal Circumstances" present?	✓ Yes
Are Vegetation ☐ Soil ✓ or Hy	ydrology naturally pro	oblematic? No	(If needed, e	explain any answers in Remark	(S.)
SUMMARY OF FINDING	S - Attach site map	showing samplir	ng point locatio	ons, transects, important	features, etc.
Hydrophytic Vegetation Present?	✓ Yes	Is the Sample	ad Araa		
Hydric Soil Present?	✓ Yes No	within a Wetl		✓ Yes □ No	
Wetland Hydrology Present?	✓ Yes				
Remarks:					
Field Wetland Classification: PFC)				
HYDROLOGY	_				
Wetland Hydrology Indicator	rs				
Primary Indicators (minimum of one is r	equired; check all that apply)			Secondary Indicators (minimum o	of two required)
Surface Water (A1)		ed Leaves (B9)		Surface Soil Cracks (B6)	
High Water Table (A2)	Aquatic Fau			✓ Drainage Patterns (B10)	
Saturation (A3)	Marl Deposi			Moss Trim Lines (B16)	
Water Marks (B1)		ulfide Odor (C1) izospheres on Living F	Pooto (C2)	Dry-Season Water Table (C2	2)
Sediment Deposits (B2)		Reduced Iron (C4)	ROOIS (C3)	Crayfish Burrows (C8)	
Drift Deposits (B3)		Reduction in Tilled Soi	ils (C6)	Saturation Visible on Aerial I	
☐ Algal Mat or Crust (B4)☐ Iron Deposits (B5)		Surface (C7)	(00)	Stunted or Stressed Plants (I	D1)
Inundation Visible on Aerial Imager		ain in Remarks)		Geomorphic Position (D2)	
Sparsely Vegetated Concave Surfa		,		Shallow Aquitard (D3)	
operacity vegetated contexts can be	100 (20)			Microtopographic Relief (D4)	
				FAC-Neutral Test (D5)	
				Other (Explain in Remarks)	
Field Observations:					
	Yes Vo Depth (i				
	<u> </u>	nches): 0			
Saturation Present:	Yes No Depth (i	nches): 0	Wetla	nd Hydrology Present?	✓ Yes No
Describe Recorded Data (stream g	gauge, monitoring well, ae	rial photos, previous	s inspections), if a	vailable:	
Remarks:					

LOLIATION				
Tree Stratum				
Plot Size:	30 feet			
Scientific Name		% Cover	Dominant	Indicator
Acer rubrum		25	YES	FAC
Pinus strobus		10	YES	FACU
	Total Cover	: 35		
Sapling Stratum				
Plot Size:	15 feet			
Scientific Name		% Cover	Dominant	Indicator
Acer rubrum		35	YES	FAC
	Total Cover	: 35		
Shrub Stratum				
Plot Size:	15 feet	ı	1	1
Scientific Name		% Cover	Dominant	Indicator
	Total Cover	:		
Herb Stratum				
Plot Size:	5 feet			
Scientific Name		% Cover	Dominant	Indicator
Carex crinita		10	YES	OBL
Leersia oryzoio	des	15	YES	OBL
Solidago sp		5	NO	FAC
Rubus hispidus	S	2	NO	FACW
	Total Cover	: 32	1	
Vine Stratum				
Plot Size:	30 feet			
Scientific Name		% Cover	Dominant	Indicator
	Total Cover	:		

Dominance Test Worksheet Number of Dominant Species	:	Prevalence Index Total % Cover of:	(Workshe		tiply by:	
that are OBL, FACW, or FAC:	4 (A)	OBL Species:	25	x 1 =	25	_
Total Number of Dominant Species Across All Strata:	5 (B)	FACW Species:	2	x 2 =	4	=
Percent of Dominant Species that	(//	FAC Species:	65	x 3 =	195	_
are OBL, FACW, or FAC:	80 (A/B)	FACU Species:	10	x 4 =	40	_
		UPL Species:	0	x 5 =	0	=
		Column Totals:	102	(A)	264	_ (B)
		Preva	alence Index :	= B/A =	2.59	_
Hydrophytic Vegetation Ind						
 1 - Rapid Test for Hydrophytic Ve 2 - Dominance Test is > 50% 3 - Prevalance is ≤ 3.0 4 - Morphological Adaptations¹ (P data in Remarks or on a separate Problematic Hydrophytic Vegetati ¹Indicators of hydric soil and wetland unless disturbed or problematic. 	rovide supporting sheet) on¹ (Explain)	Hydrophytic Vego	etation Pre	esent?	✓ Yes □	No

Depth	Matrix		Redox Features		ox Features				
(in.)	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-6	7.5YR 3/3	98	5YR 4/6	2	С	М	FINE SANDY LOAM		
5-12	5YR 4/3	95	5YR 4/6	5	С	М	FINE SANDY LOAM		
12-18	5YR 4/3	90	5YR 4/6	5	С	М	FINE SANDY LOAM	10YR 5/6 (5%) 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	s:			Indicators for Problematic Hydric Soils
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Su Thick Dark Surface (A12 Sandy Mucky Mineral (S Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR	urface (A11)	Polyvalue Below Surface (S8) (LRR R, MLRA Thin Dark Surface (S9) (LRR R, MLRA 1498 Loamy Mucky Mineral (F1) (LRR K, L) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Other (Explain in Remarks)	3)	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)
Type:	resent (if presei	ıt): 	Hydr	ric Soil Present? ☑ Yes ☐ No
Photos				
Photo Name: DF1	CW375A 050514	WET1NW ing	a: DF.1C.W	375A-WET1

Project/Site Constitution	Milepost 76.75817	City/County: D	Delaware	Sampling Date: 2014/05/05
Applicant/Owner: Williams		State: N	١Y	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	Latitu	ide: 42.422456	L	ongitude: -74.99003 Datum: NAD 1983
Soil Map Unit Name: Willowern	noc channery silt loam, 3 to	8 percent slopes		NWI Classification: Not mapped
Are climatic/hydrologic conditions	on the site typical for this ti	me of year?	Yes	☐ No (If no, explain in Remarks.)
Are Vegetation Soil or	Hydrology significantly	disturbed? 🗸 I	No	Are "Normal Circumstances" present? ✓ Yes ☐ No
Are Vegetation ☐ Soil ✔ or H	Hydrology naturally pro	oblematic?	No (If	needed, explain any answers in Remarks.)
SUMMARY OF FINDING	S - Attach site map	showing samp	oling poir	nt locations, transects, important features, etc.
Hydrophytic Vegetation Present?	Yes No	Is the Samp	nlad Ara	a
Hydric Soil Present?	✓ Yes	within a We		✓ Yes □ No
Wetland Hydrology Present?	✓ Yes			
Remarks:				
Field Wetland Classification: PF	:O			
HYDROLOGY				
Wetland Hydrology Indicate	ors			
Primary Indicators (minimum of one is				Secondary Indicators (minimum of two required)
Surface Water (A1)	✓ Water Stain			Surface Soil Cracks (B6)
High Water Table (A2)	Aquatic Fau Marl Deposi			✓ Drainage Patterns (B10)
Saturation (A3)	_	ulfide Odor (C1)		Moss Trim Lines (B16)
Water Marks (B1) Sediment Deposits (B2)		izospheres on Livin	g Roots (C3	Dry-Season Water Table (C2) Crayfish Burrows (C8)
Drift Deposits (B3)		Reduced Iron (C4)		Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Recent Iron	Reduction in Tilled	Soils (C6)	Stunted or Stressed Plants (D1)
☐ Iron Deposits (B5)	Thick Muck	Surface (C7)		Geomorphic Position (D2)
☐ Inundation Visible on Aerial Imag	ery (B7) Other (Expla	ain in Remarks)		Shallow Aquitard (D3)
Sparsely Vegetated Concave Sur	rface (B8)			Microtopographic Relief (D4)
				FAC-Neutral Test (D5)
				Other (Explain in Remarks)
Field Observations:	Voc. ANo. Donth (i			
	☐ Yes ✓ No Depth (i / Yes No Depth (i			
		nches): 4 nches): 0		Wetland Hydrology Present? ✓ Yes ☐ No
Describe Recorded Data (stream	gauge, monitoring well, ae	rial photos, previo	ous inspec	tions), if available:
Remarks:				

Trace Streeture				
Tree Stratum				
Plot Size: 30 feet Scientific Name		% Cover	Dominant	Indicator
Populus tremuloides		45	YES	FACU
Acer rubrum		10	NO	FAC
Pinus strobus		5	NO	FACU
	Total Cover:	60		
Sapling Stratum				
Plot Size: 15 feet Scientific Name		% Cover	Dominant	Indicator
Fraxinus americana		10	YES	FACU
Populus tremuloides		15	YES	FACU
	Total Cover:	25		
Shrub Stratum				
Plot Size: 15 feet Scientific Name		% Cover	Dominant	Indicator
Crataegus crus-galli		10	YES	FAC
	Total Cover:	10		
Herb Stratum				
Plot Size: 5 feet Scientific Name		% Cover	Dominant	Indicator
Onoclea sensibilis		20	YES	FACW
Rubus hispidus		5	NO	FACW
Solidago sp		5	NO	FAC
Carex sp		5	NO	FAC
Euthamia graminifolia		10	NO	FAC
Ranunculus sp		5	NO	FAC
	Total Cover:	50		
Vine Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:	1		

Dominance Test Worksheet Number of Dominant Species	:	Prevalence Index Total % Cover of:	k Workshe		tiply by:	
that are OBL, FACW, or FAC:	2 (A)	OBL Species:	0	x 1 =	0	=
Total Number of Dominant Species Across All Strata:	5 (B)	FACW Species:	25	x 2 =	50	=
Percent of Dominant Species that	(=)	FAC Species:	45	x 3 =	135	-
are OBL, FACW, or FAC:	40 (A/B)	FACU Species:	75	x 4 =	300	<u>-</u> .
		UPL Species:	0	x 5 =	0	_
		Column Totals:	145	(A)	485	(B)
		Preva	alence Index :	= B/A =	3.34	-
Hydrophytic Vegetation Ind	icators:					
 1 - Rapid Test for Hydrophytic Ve 2 - Dominance Test is > 50% 3 - Prevalance is ≤ 3.0 4 - Morphological Adaptations¹ (P data in Remarks or on a separate ✓ Problematic Hydrophytic Vegetati¹Indicators of hydric soil and wetlanunless disturbed or problematic. Remarks: 	rovide supporting sheet) on¹ (Explain)	Hydrophytic Veg	etation Pre	esent?	✓ Yes □	No

Depth	Matrix		Rede	Redox Features				
(in.)	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²	Texture	Remarks
0-1	5YR 3/3	100					FINE SANDY LOAM	
1-12	5YR 4/3	97	5YR 4/6	3	С	PL	SILT LOAM	
12-20	5YR 4/3	90	5YR 5/6	10	С	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:		Indicators for Problematic Hydric Soils
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)	□ Polyvalue Below Surface (S8) (LRR R, MLRA 149B) □ Thin Dark Surface (S9) (LRR R, MLRA 149B) □ Loamy Mucky Mineral (F1) (LRR K, L) □ Loamy Gleyed Matrix (F2) ☑ Depleted Matrix (F3) □ Redox Dark Surface (F6) □ Depleted Dark Surface (F7) □ Redox Depressions (F8) □ Other (Explain in Remarks) and hydrology must be present unless disturbed or prob	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)
		T
Restrictive Layer Present (if pr	esent):	
Туре:		Hydric Soil Present? ✓ Yes ☐ No
Depth (inches):		Hydric 3011 Fresent? Tes - No
Photos		
Photo Name: DF1CW376_0506	S14 WET1N ing Note:	DE-1C-W376-WET1

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	on, Township, Range: Davenport
Landform: Drainageway		Lo	cal Relief:	✓ Concave ☐ Convex ☐ None Slope (%): 2
Subregion: Middle Atlantic	Latitu	ude: 42.42460	06	Longitude: -74.98844 Datum: NAD 1983
Soil Map Unit Name: Vly channe	ery silt loam, 8 to 15 perce	nt slopes		NWI Classification: Not mapped
Are climatic/hydrologic conditions	on the site typical for this t	ime of year?	✓ Yes	☐ No (If no, explain in Remarks.)
Are Vegetation Soil or F	Hydrology significantly	disturbed?	∕ No	Are "Normal Circumstances" present? ✓ Yes No
Are Vegetation Soil or H	lydrology naturally pro	oblematic?	N O	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDING	S - Attach site map	showing sar	npling po	pint locations, transects, important features, etc.
Hydrophytic Vegetation Present?	✓ Yes	la tha Car		
Hydric Soil Present?	✓ Yes No	Is the Sar within a \		
Wetland Hydrology Present?	✓ Yes	Within a	vetiana	•
Remarks: egg masses present in	n standing water			
	- -			
Field Wetland Classification: PS	S			
HYDROLOGY				
Wetland Hydrology Indicato	irs			
Primary Indicators (minimum of one is	required; check all that apply)			Secondary Indicators (minimum of two required)
Surface Water (A1)	Water Stair	ned Leaves (B9)		Surface Soil Cracks (B6)
✓ High Water Table (A2)	Aquatic Fau			✓ Drainage Patterns (B10)
Saturation (A3)	☐ Marl Depos			Moss Trim Lines (B16)
Water Marks (B1)		Sulfide Odor (C1)		Dry-Season Water Table (C2)
Sediment Deposits (B2)		nizospheres on Li		C3) Crayfish Burrows (C8)
Drift Deposits (B3)		f Reduced Iron (C	•	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Reduction in Till	ed Soils (C6)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)		Surface (C7)		Geomorphic Position (D2)
Inundation Visible on Aerial Image	ry (B7) Uther (Expl	ain in Remarks)		Shallow Aquitard (D3)
Sparsely Vegetated Concave Surf	ace (B8)			Microtopographic Relief (D4)
				FAC-Neutral Test (D5)
				Other (Explain in Remarks)
Field Observations:				
Surface Water Present:	Yes No Depth (inches): 2		
	` `	inches): 0		
		inches): 0		Wetland Hydrology Present? ✓ Yes ☐ No
Describe Recorded Data (stream	gauge, monitoring well, as	erial photos, pre	evious insp	ections), if available:
Remarks:				

VEGETATION				
Tree Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
Acer rubrum		5	YES	FAC
Populus tremuloides		10	YES	FACU
Malus sp		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		1	ı	ı
Scientific Name		% Cover	Dominant	Indicator
Spiraea alba		25	YES	FACW
Lonicera morrowii		2	NO	FACU
Crataegus crus-galli		5	NO	FAC
	Total Cover:	32		
Herb Stratum				
Plot Size: 5 feet				
Scientific Name		% Cover	Dominant	Indicator
Juncus effusus		20	YES	OBL
Carex crinita		20	YES	OBL
Persicaria sagittata		5	NO	OBL
Impatiens capensis		10	NO	FACW
	Total Cover:	55		1
Vine Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:		<u>I</u>	

Dominance Test Worksheet: Number of Dominant Species that are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata:	4 (A) 5 (B)	Prevalence Index Total % Cover of: OBL Species: FACW Species:	45 35	x 1 = x 2 =	45 70	- - -
Percent of Dominant Species that are OBL, FACW, or FAC:	80 (A/B)	FAC Species: FACU Species:	10 12	x 3 = x 4 =	30 48	-
ale OBL, FACW, OI FAC.	(112)	UPL Species:	0	x 5 =	0	=
		Column Totals:	102	(A)	193	(B)
		Preva	alence Index	= B/A =	1.89	-
	tors:					
Hydrophytic Vegetation Indica 1 - Rapid Test for Hydrophytic Vegeta 2 - Dominance Test is > 50% 3 - Prevalance is ≤ 3.0 4 - Morphological Adaptations¹ (Providata in Remarks or on a separate she Problematic Hydrophytic Vegetation¹ ¹Indicators of hydric soil and wetland hy unless disturbed or problematic.	de supporting set) (Explain)	Hydrophytic Vege	etation Pre	esent?	✓ Yes □	No

Depth (in.)	Matrix		Redo	Redox Features				
	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²	Texture	Remarks
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	С	М	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	s:	Indicators for Problematic Hydric Soils
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Sul Thick Dark Surface (A12 Sandy Mucky Mineral (S4 Sandy Gleyed Matrix (S4 Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR	Depleted Dark Surface (F7) Redox Depressions (F8) Other (Explain in Remarks)	Coast: Prairie Redox (A16) (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) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
Restrictive Layer Pr	resent (if present):	
Type:		Hydric Soil Present? ✓ Yes ☐ No
Depth (inches):		Hydric contricación.
Photos		
1 110103		
Photo Name: DE10	CW377_050614_WET1SW.jpg	Note: DE-1C-W377-WET1

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, 1	Township, Range: Davenport
Landform: terrace Local Relief:	Concave Convex None Slope (%): 2
Subregion: Middle Atlantic Latitude: 42.424618 Lor	ngitude: -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? $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	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 n	needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sampling point	t locations, transects, important features, etc.
Hydrophytic Vegetation Present? ☐ Yes ✓ No	
Hydric Soil Present?	☐ Yes ☑ No
Wetland Hydrology Present?	
Remarks: Upland plot	
Field Wetland Classification:	
HYDROLOGY	
Wetland Hydrology Indicators	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1)	Surface Soil Cracks (B6)
Made (12)	☐ Drainage Patterns (B10) ☐ Moss Trim Lines (B16)
Saturation (A3) Water Marks (B1) Man Deposits (B15) Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3)	Crayfish Burrows (C8)
Drift Deposits (B3) Presence of Reduced Iron (C4)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6)	Stunted or Stressed Plants (D1)
☐ Iron Deposits (B5) ☐ Thick Muck Surface (C7)	Geomorphic Position (D2)
☐ Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks)	Shallow Aquitard (D3)
Sparsely Vegetated Concave Surface (B8)	Microtopographic Relief (D4)
	FAC-Neutral Test (D5)
	Other (Explain in Remarks)
Field Observations:	
Surface Water Present: Yes No Depth (inches):	
Water Table Present:	Wattand Hadrata wa Branca (O
Saturation Present: Yes V No Depth (inches):	Wetland Hydrology Present? ☐ Yes ✓ No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection	ons), if available:
Remarks:	

Tree Stratum					
Plot Size: Scientific Name	30 feet		% Cover	Dominant	Indicator
Acer rubrum			15	YES	FAC
		Total Cover:	15		
Sapling Stratum					
Plot Size: Scientific Name	15 feet		% Cover	Dominant	Indicator
		Total Cover:			
Shrub Stratum					
Plot Size: Scientific Name	15 feet		% Cover	Dominant	Indicator
		Total Cover:			
Herb Stratum					
Plot Size: Scientific Name	5 feet		% Cover	Dominant	Indicator
Taraxacum offic	cinale		20	YES	FACU
Galium mollugo			5	NO	UPL
Plantago lanced			10	NO	FACU
unknown grass			65	YES	UPL
		Total Cover:	100	L	
Vine Stratum					
Plot Size: Scientific Name	30 feet		% Cover	Dominant	Indicator
		Total Cover:			

	t:	i i o i ai o i i o o i i i a o /	: Workshe	et:		
Number of Dominant Species	4 (4)	Total % Cover of:		Mult	tiply by:	_
that are OBL, FACW, or FAC:	1_(A)	OBL Species:	0	x 1 =	0	
Total Number of Dominant Species Across All Strata:	3 (B)	FACW Species:	0	x 2 =	0	=
Percent of Dominant Species that	` ` ′	FAC Species:	15	x 3 =	45	_
are OBL, FACW, or FAC:	33 (A/B)	FACU Species:	30	x 4 =	120	_
		UPL Species:	70	x 5 =	350	
		Column Totals:	115	(A)	515	(B)
		Preva	lence Index =	= B/A =	4.48	-
Hydrophytic Vegetation Ind 1 - Rapid Test for Hydrophytic Ve						
2 - Dominance Test is > 50% 3 - Prevalance is ≤ 3.0 4 - Morphological Adaptations¹ (P data in Remarks or on a separate Problematic Hydrophytic Vegetat ¹Indicators of hydric soil and wetlan unless disturbed or problematic.	rovide supporting e sheet) ion¹ (Explain)	Hydrophytic Vege	etation Pre	esent?	□ Yes 🗹	No

SOIL

Depth	Matrix		Redox Features					
(in.)	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²	Texture	Remarks
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:	Indicators for Problematic Hydric Soils
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Redox (S5) Stripped Matrix (S4) Dark Surface (S7) (LRR R, MLRA 149B) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Loamy Mucky Mineral (F1) (LRR K, L) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Other (Explain in Remarks) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, 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)
Destrictive Lever Present (if present)	
Restrictive Layer Present (if present):	
Туре:	Hydric Soil Present? ☐ Yes ☑ No
Depth (inches):	Tryuno con Frederic. — Fee E No
Photos	CANAL MALL LA SETTIMENTS AT
Photo Name: DE1CW377_050614_UPL1N.jpg Note: I	DE-1C-W377-UPL1

Project/Site: Constitution N	Ailepost 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: Daven	port	Section	n, Township, Range: Davenport
Landform: Depression		Lo	cal Relief:	✓ Concave ☐ Convex ☐ None Slope (%): 5
Subregion: Middle Atlantic	Latitu	de: 42.4548	19 I	_ongitude:74.83290
Soil Map Unit Name: Willowemoc	and Willdin soils, 2 to 15	percent slope	es, very ston	y NWI Classification: Not mapped
Are climatic/hydrologic conditions on	the site typical for this ti	me of year?	✓ Yes	☐ No (If no, explain in Remarks.)
Are Vegetation Soil or Hy	drology significantly	disturbed?	∕ No	Are "Normal Circumstances" present? ✓ Yes ☐ No
Are Vegetation Soil or Hyd	drology naturally pro	blematic?	No (I	f needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS	- Attach site map	showing sar	mpling poi	nt locations, transects, important features, etc.
Hydrophytic Vegetation Present?	✓ Yes	Is the Sai	mpled Ar	22
Hydric Soil Present?	✓ Yes	within a		✓ Yes □ No
Wetland Hydrology Present?	✓ Yes No			
Remarks:				
Field Wetland Classification: PFO				
HYDROLOGY				
Wetland Hydrology Indicators	3			
Primary Indicators (minimum of one is re				Secondary Indicators (minimum of two required)
Surface Water (A1)	✓ Water Staine☐ Aquatic Faul	` '		Surface Soil Cracks (B6)
☐ High Water Table (A2) ✓ Saturation (A3)	Marl Deposit			✓ Drainage Patterns (B10) Moss Trim Lines (B16)
Water Marks (B1)		ulfide Odor (C1)		Dry-Season Water Table (C2)
Sediment Deposits (B2)		izospheres on Li	iving Roots (C	
Drift Deposits (B3)	Presence of	Reduced Iron (C	C4)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Recent Iron	Reduction in Till	ed Soils (C6)	Stunted or Stressed Plants (D1)
☐ Iron Deposits (B5)	Thick Muck	Surface (C7)		Geomorphic Position (D2)
Inundation Visible on Aerial Imagery	(B7) Other (Expla	ain in Remarks)		Shallow Aquitard (D3)
Sparsely Vegetated Concave Surface	e (B8)			✓ Microtopographic Relief (D4)
				FAC-Neutral Test (D5)
				Other (Explain in Remarks)
Field Observations: Surface Water Present:	/os ANo Donth /i	nahaa);		
Surface Water Present:				
Saturation Present:		nches): 0		Wetland Hydrology Present? ✓ Yes ☐ No
		-		
Describe Recorded Data (stream ga	auge, monitoring well, aei	rial photos, pre	evious inspe	ctions), if available:
Remarks:				

Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Tsuga canadensis	60	YES	FACU
Fraxinus pennsylvanica	20	YES	FACW
Ostrya virginiana	5	NO	FACU
Total Cover:	85		
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Acer rubrum	10	YES	FAC
Fraxinus pennsylvanica	10	YES	FACW
Total Cover:	20	1	
Shrub Stratum			
Plot Size: 15 feet		1	
Scientific Name	% Cover	Dominant	Indicator
Total Cover:	0		
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
Arisaema triphyllum	10	YES	FAC
Oxalis montana	5	NO	FACU
Thelypteris simulata	20	YES	FACW
Total Cover:	35	1	
Vine Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Total Cover:	0		

minant Specie FACW, or FAI of Dominant ss All Strata:	es C:	5_(A) 6_(B)	1		Total S OBL S FACW FAC S FACU UPL S	% Cover of: pecies: pecies: species: pecies: pecies: pecies:	0 50 20 70 0 140	x 1 = x 2 = x 3 = x 4 = x 5 = (A)	0 100 60 280 0 440 (B)
est for Hydrop nce Test is > ! nce is ≤ 3.0 logical Adapta narks or on a : c Hydrophytic hydric soil an	ohytic V 50% tions¹ (separat Vegeta d wetla	regetation Provide supporte sheet) ation¹ (Explain)	Ū	esent	Hydro	ophytic Vege	etation Pre	esent?	✓ Yes □ No
ription: (De	scribe	to the depth	neede	d to do	cument	the indicator	or confirm	the abse	ence of indicators.)
Matrix		Red	lox Featι	ires	П				
r (Moist)	%	Color (Moist)	%	Type ¹	Loc ²	Texture	•		Remarks
3/1	90 1	LOYR 5/6	10	С	M	CLAY LOAM			
ncentration, D	=Deple	tion, RM=Redu	ced Matri	x, CS=Co	overed Sa	and or Coated Sa	and Grains.	² Loc	cation: PL=Pore Lining, M=Matrix.
Indicators:							Indica	tors for	Problematic Hydric Soils ³
1) edon (A2)		Thir		ace (S9) (I			2 cm	n Muck (A10	D) (LRR K, L, MLRA 149B) Ledox (A16) (LRR K, L, R)
	minant Specie FACW, or FA of Dominant is All Strata: minant Specie W, or FAC: ic Vegetati est for Hydropince Test is > nce is ≤ 3.0 logical Adaptationarks or on a cell Hydrophytic hydric soil and ped or problem cription: (Demonstration of Matrix or (Moist) indicators: 1) edon (A2)	minant Species FACW, or FAC: of Dominant is All Strata: minant Species that W, or FAC: ic Vegetation In est for Hydrophytic V nce Test is > 50% nce is ≤ 3.0 logical Adaptations¹ (narks or on a separa c Hydrophytic Vegeta hydric soil and wetla bed or problematic. cription: (Describe Matrix or (Moist) % incentration, D=Deple Indicators: 1)	FACW, or FAC: of Dominant is All Strata: minant Species that W, or FAC: Same	minant Species FACW, or FAC: of Dominant sis All Strata:	minant Species FACW, or FAC:	minant Species FACW, or FAC: of Dominant ss All Strata: minant Species that W, or FAC: 83	minant Species FACW, or FAC: 5 (A) of Dominant species that minant Species that W, or FAC: 83 (A/B) Sa All Strata: 6 (B) Minant Species that W, or FAC: 83 (A/B) FAC Species: FAC Species: FACU Species: FACU Species: UPL Species: Column Totals:	minant Species FACW, or FAC: of Dominant Is All Strata: Indicators: Total % Cover of: OBL Species: OBL Spec	minant Species FACW, or FAC: 5 (A) of Dominant is All Strata: 6 (B) FACW Species: 5 (A) or FAC: 6 (B) FACW Species: 5 (A) FACW Species: 7 (B) FACW Species: 7 (A) FACW Species: 7 (B) FAC

Restrictive Layer Present (if present):			
Type: ROCK	Undria Sail Bracant?	✓ Yes	□ No
Depth (inches): 12	Hydric Soil Present?	v ies	□ NO
Remarks:			

Photos



DE1GW011_20120719_WET1W.jpg Photo Name: Note: DE-1G-W011-WET1

Project/Site: Constitution	Milepost 83.48	City/County:	Delaware	Sampl	ing Date: 2012/07/19	
Applicant/Owner: Williams		State:	NY	Sampling Poir	nt: DE-1G-W011-UPL1	
Investigator(s): AH,ELG	USGS Quad: Dave	enport	Section, 7	Гоwnship, Range:Dave	nport	
Landform: Terrace		Loc	cal Relief:	Concave Convex	✓ None Slope (%):)
Subregion: Middle Atlantic	Lat	itude: 42.45483	B6 Loi	ngitude: -74.83314	Datum: NAD1983	
Soil Map Unit Name: Willowem	oc and Willdin soils, 2 to	15 percent slope	es, very stony	NWI Classifi	cation: Not mapped	
Are climatic/hydrologic conditions	on the site typical for this	time of year?	✓ Yes	No (If no, explain in R	emarks.)	
Are Vegetation Soil or	Hydrology significant	ly disturbed?	No	Are "Normal Circumstance	s" present? ✓ Yes	No
Are Vegetation Soil or H	Hydrology	oroblematic?	No (If n	eeded, explain any answe	rs in Remarks.)	
SUMMARY OF FINDING	S - Attach site mar	o showing sar	npling point	locations, transects,	important features, etc.	
Hydrophytic Vegetation Present?	Yes 🗸 No	la tha Car	and Area			
Hydric Soil Present?	☐ Yes 🗸 No	within a \	mpled Area Netland?	☐ Yes	✓ No	
Wetland Hydrology Present?	☐ Yes 🗸 No	Within a	rectaria.			
Remarks: Upland Field Wetland Classification:						
HYDROLOGY						
Wetland Hydrology Indicate	ors					
Primary Indicators (minimum of one is Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imag Sparsely Vegetated Concave Sur	Water Sta Aquatic F: Marl Depo Hydrogen Oxidized I Presence Recent Iro Thick Muc	ained Leaves (B9) auna (B13)	24)	Surface Soil C Drainage Patte Moss Trim Line Dry-Season W Crayfish Burro Saturation Visi	erns (B10) es (B16) rater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) osition (D2) ard (D3) hic Relief (D4) rest (D5)	
Field Observations: Surface Water Present: Water Table Present: Saturation Present:	Yes ✓ No Depth	(inches): (inches):		Wetland Hydrology F	Present? ☐ Yes 🗸] No
Describe Recorded Data (stream Remarks:	gauge, monitoring well, a	aerial photos, pre	evious inspection	ons), if available:		

LGLIATION					
Tree Stratum					
Plot Size: Scientific Name	30 feet		% Cover	Dominant	Indicator
Tsuga canader	nsis		80	YES	FACU
Betula alleghar	niensis		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			1	1
Scientific Name			% Cover	Dominant	Indicator
		Total Cover:	0		
Herb Stratum					
Plot Size: Scientific Name	5 feet		% Cover	Dominant	Indicator
Maianthemum	canadense		5	YES	FACU
Polystichum ac			20	YES	FACU
		Total Cover:	25	L	
Vine Stratum		_			
Plot Size:	30 feet				
Scientific Name			% Cover	Dominant	Indicator
		Total Cover:	0		

Dominance Test Number of Dominant S that are OBL, FACW, or Total Number of Domin Species Across All Strategies Across Across All Strategies Across Across Across All Strategies Across All Strategies Across pecies or FAC: nant tata: pecies that C: etation In ydrophytic is > 50% daptations ¹ on a separ hytic Vege bil and wet	d (A) 3 (B) t 0 (A) ndicators: Vegetation (Provide supportate sheet) station¹ (Explain)	(B)	sent	Total % OBL S FACW FAC S FACU UPL S Colum	alence Index Wo 6 Cover of: pecies: Species: pecies: pecies: precies: prevalence prevalence	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
ļ <u> </u>	•	· -			cument t	the indicator or c	onfirm the absence of indicators.)
Depth Matrix (in.) Color (Moist)		Color (Moist)	lox Featur	res Type ¹	Loc2	Texture	Remarks
0-1	0		0	.,,,,,	255	TORGET	ORGANIC
1-6 10YR 4/3	100		0	ļ	None	SILT LOAM	
1		\		į			
'Type: C=Concentration	n, D=Dep	etion, RM=Redu	ced Matrix	, CS=Co	overed Sa	and or Coated Sand (Grains. ² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicat		etion, RM=Redu	ced Matrix	, CS=Cc	overed Sa	and or Coated Sand (Grains. ² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³

Restrictive Layer Present (if present):					
Type: ROCK REFUSAL		Uvdria Cail Dragont?	□ Vaa	✓ No	
Depth (inches): 6		Hydric Soil Present?	⊔ res	▼ NO	
Remarks:	<u> </u>				

Photos



DE1GW011_20120719_UPL1W.jpg Photo Name: Note: DE-1G-W011-UPL1

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, T	Fownship, Range: Franklin								
Landform: toe of slope Local Relief: ✓	Concave Convex None Slope (%):								
Subregion: Middle Atlantic Latitude: -75.04167 Lon	ngitude: -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 no	needed, explain any answers in Remarks.)								
SUMMARY OF FINDINGS - Attach site map showing sampling point	locations, transects, important features, etc.								
Hydrophytic Vegetation Present? ✓ Yes □ No □ Is the Sampled Area									
Hydric Soil Present?	✓ Yes ☐ No								
Wetland Hydrology Present?									
Remarks:									
Field Wetland Classification: PSS									
HYDROLOGY									
Wetland Hydrology Indicators									
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)								
✓ Surface Water (A1) Water Stained Leaves (B9)	Surface Soil Cracks (B6)								
High Water Table (A2) Aquatic Fauna (B13) Mad Deposits (B15)	✓ Drainage Patterns (B10)								
✓ Saturation (A3) Marl Deposits (B15) Water Marks (B1) Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16)								
Oviding Discontinuo (D1)	Dry-Season Water Table (C2)								
Processes of Reduced Iron (C4)	Citayiish Burlows (GG)								
☐ Drift Deposits (B3) ☐ Recent Iron Reduction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)								
☐ Iron Deposits (B5) ☐ Thick Muck Surface (C7)	Stunted or Stressed Plants (D1)								
☐ Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks)	Geomorphic Position (D2)								
Sparsely Vegetated Concave Surface (B8)	Shallow Aquitard (D3)								
	Microtopographic Relief (D4)								
	FAC-Neutral Test (D5)								
	Other (Explain in Remarks)								
Field Observations:									
Surface Water Present: Yes No Depth (inches):									
Water Table Present:									
Saturation Present:	Wetland Hydrology Present?								
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection	ons), if available:								
Remarks:									

VEGETATION				
Tree Stratum				
Plot Size: feet				
Scientific Name		% Cover	Dominant	Indicator
Acer rubrum		15	YES	FAC
	Total Cover:	15	l	
Sapling Stratum				
Plot Size: feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
Shrub Stratum				
Plot Size: feet			1	1
Scientific Name		% Cover	Dominant	Indicator
Alnus rugosa		15	YES	NONE
Vaccinium corymbosum		30	YES	FACW
Spiraea alba		10	NO	FACW
Lonicera tatarica		10	NO	FACU
Sambucus canadensis		5	NO	FACW
Acer rubrum		15	YES	FAC
Viburnum nudum		10	NO	FACU
	Total Cover:	95	ı	1
Herb Stratum		I		
Plot Size: feet Scientific Name		% Cover	Dominant	Indicator
Onoclea sensibilis		40	YES	FACW
Glyceria striata		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: Total Number of Dominant Species Across All Strata: Percent of Dominant Species that are OBL, FACW, or FAC:	5 (A) 6 (B) 83.33 (A/B)	Prevalence Inde Total % Cover of: OBL Species: FACW Species: FAC Species: FACU Species: UPL Species: Column Totals:	15 85 30 20 0 150	Multi x 1 = x 2 = x 3 = x 4 = x 5 = (A)	tiply by: 15 170 90 80 0 355 2.37	
Hydrophytic Vegetation Ind	icators:			-		-
1 - Rapid Test for Hydrophytic Ve	getation					
✓ 2 - Dominance Test is > 50%		Hydrophytic Ve	getation Pre	sent?	✓ Yes	No
✓ 3 - Prevalance is ≤ 3.0			-			
4 - Morphological Adaptations¹ (P data in Remarks or on a separate						
☐ Problematic Hydrophytic Vegetati	on¹ (Explain)					
¹ Indicators of hydric soil and wetland unless disturbed or problematic.	d hydrology must be present					
Remarks:						

SOIL

Depth	Matrix		Red	ox Featu	ıres			
(in.)	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²	Texture	Remarks
0-3	Organic					None	ORGANIC	
3-6	7.5YR 4/2	100				None	SILT LOAM	
6-12	7.5YR 4/2	80	10YR 3/4	20	С	PL	SILT	Rocky-silt
12-18+	10YR 4/2	70	10YR 5/4	30	С	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 Indic	ators:		Indicators for Problematic Hydric Soils
	(A4) A5) ark Surface (A11) e (A12) eral (S1) trix (S4) 6) (LRR R, MLRA 149B)	Polyvalue Below Surface (S8) (LRR R, MLRA Thin Dark Surface (S9) (LRR R, MLRA 149B) Loamy Mucky Mineral (F1) (LRR K, L) Loamy Gleyed Matrix (F2) ✓ Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Other (Explain in Remarks)	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)
Bartista Carallana	D	0	
-	er Present (if pre	esent):	
Type:		<u></u>	Hydric Soil Present? ☐ Yes ☐ No
Depth (inches):			.,,
Photos			
Photo Name:	DE1HW268_04021	13 WET1N.jpg Note	e: DE-1H-W268-WET1

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, T	Fownship, Range: Franklin								
Landform: toe of slope Local Relief: ✓	Concave Convex None Slope (%):								
Subregion: Middle Atlantic Latitude: -75.04167 Lon	ngitude: -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 no	needed, explain any answers in Remarks.)								
SUMMARY OF FINDINGS - Attach site map showing sampling point	locations, transects, important features, etc.								
Hydrophytic Vegetation Present? ✓ Yes □ No □ Is the Sampled Area									
Hydric Soil Present?	✓ Yes ☐ No								
Wetland Hydrology Present?									
Remarks:									
Field Wetland Classification: PSS									
HYDROLOGY									
Wetland Hydrology Indicators									
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)								
✓ Surface Water (A1) Water Stained Leaves (B9)	Surface Soil Cracks (B6)								
High Water Table (A2) Aquatic Fauna (B13) Mad Deposits (B15)	✓ Drainage Patterns (B10)								
✓ Saturation (A3) Marl Deposits (B15) Water Marks (B1) Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16)								
Oviding Discontinuo (D1)	Dry-Season Water Table (C2)								
Processes of Reduced Iron (C4)	Citayiish Burlows (GG)								
☐ Drift Deposits (B3) ☐ Recent Iron Reduction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)								
☐ Iron Deposits (B5) ☐ Thick Muck Surface (C7)	Stunted or Stressed Plants (D1)								
☐ Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks)	Geomorphic Position (D2)								
Sparsely Vegetated Concave Surface (B8)	Shallow Aquitard (D3)								
	Microtopographic Relief (D4)								
	FAC-Neutral Test (D5)								
	Other (Explain in Remarks)								
Field Observations:									
Surface Water Present: Yes No Depth (inches):									
Water Table Present:									
Saturation Present:	Wetland Hydrology Present?								
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection	ons), if available:								
Remarks:									

VEGETATION				
Tree Stratum				
Plot Size: feet				
Scientific Name		% Cover	Dominant	Indicator
Acer rubrum		15	YES	FAC
	Total Cover:	15	l	
Sapling Stratum				
Plot Size: feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
Shrub Stratum				
Plot Size: feet			1	1
Scientific Name		% Cover	Dominant	Indicator
Alnus rugosa		15	YES	NONE
Vaccinium corymbosum		30	YES	FACW
Spiraea alba		10	NO	FACW
Lonicera tatarica		10	NO	FACU
Sambucus canadensis		5	NO	FACW
Acer rubrum		15	YES	FAC
Viburnum nudum		10	NO	FACU
	Total Cover:	95	ı	1
Herb Stratum		I		
Plot Size: feet Scientific Name		% Cover	Dominant	Indicator
Onoclea sensibilis		40	YES	FACW
Glyceria striata		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: Total Number of Dominant Species Across All Strata: Percent of Dominant Species that are OBL, FACW, or FAC:	5 (A) 6 (B) 83.33 (A/B)	Prevalence Inde Total % Cover of: OBL Species: FACW Species: FAC Species: FACU Species: UPL Species: Column Totals:	15 85 30 20 0 150	Multi x 1 = x 2 = x 3 = x 4 = x 5 = (A)	tiply by: 15 170 90 80 0 355 2.37	
Hydrophytic Vegetation Ind	icators:			-		-
1 - Rapid Test for Hydrophytic Ve	getation					
✓ 2 - Dominance Test is > 50%		Hydrophytic Ve	getation Pre	sent?	✓ Yes	No
✓ 3 - Prevalance is ≤ 3.0			-			
4 - Morphological Adaptations¹ (P data in Remarks or on a separate						
☐ Problematic Hydrophytic Vegetati	on¹ (Explain)					
¹ Indicators of hydric soil and wetland unless disturbed or problematic.	d hydrology must be present					
Remarks:						

SOIL

Depth	Matrix		Red	ox Featu	ıres			
(in.)	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²	Texture	Remarks
0-3	Organic					None	ORGANIC	
3-6	7.5YR 4/2	100				None	SILT LOAM	
6-12	7.5YR 4/2	80	10YR 3/4	20	С	PL	SILT	Rocky-silt
12-18+	10YR 4/2	70	10YR 5/4	30	С	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 Indic	ators:		Indicators for Problematic Hydric Soils
	(A4) A5) ark Surface (A11) e (A12) eral (S1) trix (S4) 6) (LRR R, MLRA 149B)	Polyvalue Below Surface (S8) (LRR R, MLRA Thin Dark Surface (S9) (LRR R, MLRA 149B) Loamy Mucky Mineral (F1) (LRR K, L) Loamy Gleyed Matrix (F2) ✓ Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Other (Explain in Remarks)	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)
Bartista Carallana	D	0	
-	er Present (if pre	esent):	
Type:		<u></u>	Hydric Soil Present? ☐ Yes ☐ No
Depth (inches):			.,,
Photos			
Photo Name:	DE1HW268_04021	13 WET1N.jpg Note	e: DE-1H-W268-WET1

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 Qua	ad: Oneonta	Section, Township	, Range: Franklin
Landform:	Lo	cal Relief: Concave	e Convex None Slope (%):
Subregion: Middle Atlantic	Latitude: 42.42432	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	I for this time of year?	Yes No (If no, explain in Remarks.)
Are Vegetation $\ \ \ \ \ \ \ \ \ \ \ \ \ $	gnificantly disturbed?	No Are "Norr	mal Circumstances" present?
Are Vegetation Soil or Hydrology na	aturally problematic?	No (If needed, e	explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach s	ite map showing sar	mpling point locatio	ns, transects, important features, etc.
Hydrophytic Vegetation Present? ☐ Yes ☑	No le the Sa	mpled Area	
Hydric Soil Present? ☐ Yes ☑	No within a \		☐ Yes ☑ No
Wetland Hydrology Present? ☐ Yes ☑	No		
Remarks: Upland plot	'		
Field Wetland Classification:			
HYDROLOGY			
Wetland Hydrology Indicators			
Primary Indicators (minimum of one is required; check all			Secondary Indicators (minimum of two required)
[]	Water Stained Leaves (B9)		Surface Soil Cracks (B6)
	Aquatic Fauna (B13) Marl Deposits (B15)		Drainage Patterns (B10)
	Hydrogen Sulfide Odor (C1)		Moss Trim Lines (B16) Dry-Season Water Table (C2)
Water Marks (B1)	Oxidized Rhizospheres on Li	ving Roots (C3)	Crayfish Burrows (C8)
Gediment Deposits (B2)	Presence of Reduced Iron (C		Saturation Visible on Aerial Imagery (C9)
	Recent Iron Reduction in Till	ed Soils (C6)	Stunted or Stressed Plants (D1)
	Thick Muck Surface (C7)		Geomorphic Position (D2)
☐ Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)		Shallow Aquitard (D3)
Sparsely Vegetated Concave Surface (B8)			Microtopographic Relief (D4)
			FAC-Neutral Test (D5)
			Other (Explain in Remarks)
Field Observations:			
Surface Water Present: Yes V No	Depth (inches):		
Water Table Present: ☐ Yes ✓ No	Depth (inches):		
Saturation Present: Yes V No	Depth (inches):	Wetla	nd Hydrology Present? ☐ Yes 🔽 No
Describe Recorded Data (stream gauge, monitoring	ng well, aerial photos, pre	evious inspections), if a	vailable:
Remarks:			

Tree Stratum			
Plot Size: 30 feet Scientific Name	% Cover	Dominant	Indicator
Pinus resinosa	45	YES	FACU
Acer rubrum	10	NO	FAC
Total Cov	ver: 55		
Sapling Stratum			
Plot Size: 15 feet Scientific Name	% Cover	Dominant	Indicator
Fagus grandifolia	20	YES	FACU
Acer rubrum	10	YES	FAC
Total Cov	ver: 30		
Shrub Stratum			
Plot Size: 15 feet	1	1	1
Scientific Name	% Cover	Dominant	Indicator
Total Cov	ver:		
Herb Stratum			
Plot Size: 5 feet Scientific Name	% Cover	Dominant	Indicator
Rubus hispidus	10	YES	FACW
Total Cov	ver: 10		
Vine Stratum			
Plot Size: 30 feet Scientific Name	% Cover	Dominant	Indicator
Total Cov	ver:		

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: 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							 _ (B)
1 - R 2 - D 3 - P 4 - N data Prob Indica unless	apid Test for Hydrominance Test is revalance is ≤ 3.0 lorphological Adapin Remarks or on lematic Hydrophyltors of hydric soil a disturbed or problematic	Vegetation (Provide suppor ate sheet) tation¹ (Explain)	Hydro	ophytic \	Vegeta	ation Pro	esent?		Yes ⊻	No			
Remarks	s:												
SOIL													
	Description: (I	Descrik	pe to the deptl	h neede	d to do	cument	the indic	cator or	confirm	the abs	sence c	of indica	ors.)
Profile Depth	Matrix		Rec	dox Feat	ures	1			confirm	the abs			eors.)
Profile		Descrik %	-			cument		cator or	confirm	the abs		of indica	ors.)
Profile Depth	Matrix		Rec	dox Feat	ures	1			confirm	the abs			eors.)
Profile Depth (in.) 0-18	Matrix Color (Moist)	%	Rec Color (Moist)	dox Featu %	Type ¹	Loc²	Te SILT	exture			R	demarks	c ors.) Lining, M=Matrix
Profile Depth (in.) 0-18	Matrix Color (Moist) 5YR 4/4	% 100 D=Depl	Rec Color (Moist)	dox Featu %	Type ¹	Loc²	Te SILT	exture	d Grains.	² Lc	cation:	PL=Pore	
Profile Depth (in.) 0-18 1 Type: Hydrid Hist Hist Hyd Stra Dep Thic Sar Sar Stri	Matrix Color (Moist) 5YR 4/4 C=Concentration,	% 100 D=Depl s:	etion, RM=Redu Poly Thir Loa Loa Dep Red Dep Red Othe	ced Matri yvalue Belo n Dark Suri my Mucky my Gleyed bleted Matri dox Dark Si bleted Dark dox Depres	ix, CS=Co ow Surface face (S9) (Mineral (F2 ix (F3) urface (F6) c Surface (I	overed Sa e (S8) (LRR LLRR R, ML (1) (LRR K, (2))	SILT and or Coa R R, MLRA 14 RA 149B)	exture	d Grains. Indica 2 c Co. 5 c Da Pol Iror Pie Me Rec	² Loators for m Muck (A ast: Prairie m Mucky Prk Surface yvalue Beld n Dark Surn-Mangane dmont Floosic Spodic d Parent M	Probleman (April 10) (LRR Redox (April 10) (LRR Redox (April 10) (LRF Redox (S7) (LRF Redox (S9) Se Masse odplain Se (TA6) (Material (F. Dark Sur	PL=Pore ematic F K, L, MLRA A16) (LRR R eat (S3) (LR R K, L, M) De (S8) (LR I (LRR K, L) Des (F12) (LF oils (F19) (N LRA 144A, 21) face (TF12)	Lining, M=Matrix (ydric Soils (, 149B) (, L, R) (R K, L, R) (R K, L) (R K, L, R) (MLRA 149B) (145, 149B)

Restrictive Layer Present (if present):				
Туре:	Undria Cail Brasant?	☐ Yes	✓ No	
Depth (inches):	Hydric Soil Present?		▼ NO	
Remarks:				

Photos



DE1HW268_040213_UPL1NE.jpg Photo Name: Note: DE-1H-W268-UPL1

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: Daver	nport	Section	on, Township, Range: Davenport
Landform: Depression/ pits & m	ounds	Lo	cal Relief:	✓ Concave ☐ Convex ☐ None Slope (%): 2
Subregion: Middle Atlantic	Latitu	ude: 42.44934	44	Longitude: -74.86295 Datum: NAD1983
Soil Map Unit Name: Middlebro	ook-Mongaup complex, 2 to	8 percent slop	es	NWI Classification: Not mapped
Are climatic/hydrologic conditions	on the site typical for this t	ime 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 F	Hydrology	oblematic?	∕ No	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDING	S - Attach site map	showing sar	mpling po	oint locations, transects, important features, etc.
Hydrophytic Vegetation Present?	Yes No	Is the Sai	mpled A	ro2
Hydric Soil Present?	✓ Yes No	within a \		
Wetland Hydrology Present?	✓ Yes			
Remarks: VERY DRY CLIMATE	E CONDITIONS DUE TO I	DROUGHT. SC	DILS DRY	BUT STILL HYDRIC.
Field Wetland Classification: PF	:O			
HYDROLOGY				
Wetland Hydrology Indicate	ors			
Primary Indicators (minimum of one is				Secondary Indicators (minimum of two required)
Surface Water (A1)	✓ Water Stain			Surface Soil Cracks (B6)
High Water Table (A2)	☐ Aquatic Fau ☐ Marl Depos			Drainage Patterns (B10)
Saturation (A3)		Sulfide Odor (C1)		Moss Trim Lines (B16)
Water Marks (B1) Sediment Deposits (B2)		hizospheres on Li	iving Roots (☐ Dry-Season Water Table (C2) Crayfish Burrows (C8)
Drift Deposits (B3)		f Reduced Iron (C		Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Recent Iron	Reduction in Tille	ed Soils (C6	
☐ Iron Deposits (B5)	☐ Thick Muck	Surface (C7)		Geomorphic Position (D2)
☐ Inundation Visible on Aerial Imag	ery (B7) Other (Expl	ain in Remarks)		Shallow Aquitard (D3)
Sparsely Vegetated Concave Sur	rface (B8)			✓ Microtopographic Relief (D4)
				FAC-Neutral Test (D5)
				Other (Explain in Remarks)
Field Observations				
Field Observations: Surface Water Present:	Yes ✔ No Depth (inches):		
	· `	inches):		
Saturation Present:		inches):		Wetland Hydrology Present? ✓ Yes ☐ No
Describe Recorded Data (stream			ovious insn	
	gauge, mornioning wen, ae	riai priotos, pre	evious irisp	ections), ii available.
Remarks:				

		% Cover	Dominant	Indicator
		60	YES	FAC
Total Co	over: 60			
		% Cover	Dominant	Indicator
Total Co	over: 0			
et			1	
		% Cover	Dominant	Indicator
m		70	YES	FACW
Total Co	ver: 70			
			1	
		% Cover	Dominant	Indicator
		10	YES	FAC
		10	YES	OBL
		5	YES	OBL
		10	YES	OBL
		10	YES	FACW
			l .	
Total Co	over: 45			
Total Co	over: 45			
Total Co	over: 45			
	over: 45	% Cover	Dominant	Indicator
:	Total Co	Total Cover: 60 Total Cover: 0 Pet Total Cover: 70	% Cover 60 % Cover 10 10 5 % Cover 5 60 % Cover 60 % Co	% Cover Dominant 60 YES

Dominance Test Worksheet: Number of Dominant Species							alence Index 6 Cover of:	Workshe		tiply by:	
that are	OBL, FACW, or	FAC:	7 (A))		OBL S	pecies:	25	x 1 =	25	
	umber of Domina		7 (D)				Species:	80	x 2 =	160	
'	Across All Strate		7_(B))		FAC S	· —	70	x 3 =	210	
	of Dominant Spe		t 100 (A/	'R'			Species:	0	x 4 =	0	
are OBI	L, FACW, or FAC	,.	100 (77	٥)		UPL S	•	0	x 5 =	0	
							-		-		
						Columi	n Totals:	175	(A)	395 (B)	
							Preval	lence Index =	= B/A =	2.26	
Hydro	phytic Veget	ation I	ndicators:								
1 - R	apid Test for Hyd	Irophytic	Vegetation								
✓ 2 - Dominance Test is > 50%						Hydro	phytic Vege	tation Pre	sent?	✓ Yes □ No	
∐ 3 - P	revalance is ≤ 3.0	0									
	lorphological Ada in Remarks or or			ting							
☐ Prob	lematic Hydrophy	ytic Vege	etation¹ (Explain)								
	tors of hydric soil		land hydrology m	ust be pr	esent						
Remark											
Remark	S.										
SOIL											
Profile	Description: ((Descril	be to the depti	n neede	d to doc	cument t	he indicator of	or confirm	the abse	ence of indicators.)	
Depth	Matrix		Red	lox Featu	ıres						
(in.)	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²	Texture			Remarks	
0-2		0		0		None		ORG	ANIC LAYE	R	
2-10	10YR 4/2	70	10 YR 4/6	30	С	М	LOAM	DEA	LLY DRY		
2-10	1011 4/2	70	10 11 4/0	30	C	IVI	LOAIVI	NEA	LLI DKI		
¹ Type:	C=Concentration	, D=Dep	letion, RM=Redu	ced Matri	x, CS=Co	overed Sa	nd or Coated Sa	and Grains.	² Loc	eation: PL=Pore Lining, M=Matrix.	
Hydri	c Soil Indicato	rs:						Indica	tors for I	Problematic Hydric Soils ³	
His	tosol (A1)		Poly	value Belo	w Surface	(S8) (LRR	R, MLRA 149B)	2 cm	n Muck (A10)) (LRR K, L, MLRA 149B)	
His	tic Epipedon (A2)		Thir	Dark Surf	face (S9) (L	LRR R, MLI	RA 149B)	Coa	st: Prairie R	edox (A16) (LRR K, L, R)	
Bla	ck Histic (A3)		Loa	my Mucky	Mineral (F1	1) (LRR K, I	_)	5 cm	n Mucky Pea	at or Peat (S3) (LRR K, L, R)	
	drogen Sulfide (A4)		Loa	my Gleyed	Matrix (F2	!)			-	67) (LRR K, L, M)	
	atified Layers (A5)		✓ Dep	leted Matri	x (F3)					v Surface (S8) (LRR K, L)	
		urface (A1	(11) Red	ox Dark Sı	urface (F6)						
	Depleted Below Dark Surface (A11) Redox Dark Surface (F6					- 7)		Thin Dark Surface (S9) (LRR K, L)			
		2)	Dep	leted Dark	,			I have a			
	ck Dark Surface (A1			ox Depres	,				•	e Masses (F12) (LRR K, L, R)	
Sar	ck Dark Surface (A1 ndy Mucky Mineral (S1)	Red	ox Depres	,	(s)		Piec	lmont Flood	plain Soils (F19) (MLRA 149B)	
Sar	ck Dark Surface (A1 ndy Mucky Mineral (ndy Gleyed Matrix (S	S1)	Red	ox Depres	sions (F8)	(s)		Piec	lmont Flood	, , , , , , , , , , , , , , , , , , , ,	
Sar Sar Sar	ck Dark Surface (A1 ndy Mucky Mineral (S ndy Gleyed Matrix (S ndy Redox (S5)	S1)	Red	ox Depres	sions (F8)	(s)		Piec	lmont Flood	plain Soils (F19) (MLRA 149B) TA6) (MLRA 144A, 145, 149B)	
Sar Sar Sar	ck Dark Surface (A1 ndy Mucky Mineral (3 ndy Gleyed Matrix (S ndy Redox (S5) pped Matrix (S6)	S1) S4)	Red	ox Depres	sions (F8)	(S)		Pieco	Imont Flood ic Spodic (T Parent Mat	plain Soils (F19) (MLRA 149B) TA6) (MLRA 144A, 145, 149B)	
Sar Sar Sar	ck Dark Surface (A1 ndy Mucky Mineral (S ndy Gleyed Matrix (S ndy Redox (S5)	S1) S4)	Red	ox Depres	sions (F8)	(S)		Pieco	Imont Flood ic Spodic (T Parent Mat Shallow Da	plain Soils (F19) (MLRA 149B) A6) (MLRA 144A, 145, 149B) erial (F21)	

Restrictive Layer Present (if present):		
Туре:	Hydric Soil Present? ✓ Yes	□ No
Depth (inches):	Hydric Soil Present? ✓ Yes	□ NO
Remarks:	1	

Photos



DE1NW005_20120718_WET1E.jpg Photo Name: Note: DE-1N-W005-WET1

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	on, Township, Range:Davenport
Landform: Flat Local Relief:	☐ Concave ☐ Convex ✔ None Slope (%):
Subregion: Middle Atlantic Latitude: 42.449212	Longitude:74.86298
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?	✓ 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 po	oint locations, transects, important features, etc.
Hydrophytic Vegetation Present? ☐ Yes ✓ No	
Hydric Soil Present?	
Wetland Hydrology Present? ☐ Yes ✓ No	•
Remarks: Upland	
Field Wetland Classification:	
HYDROLOGY	
Wetland Hydrology Indicators	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1) Water Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) Marl Deposits (B15)	Drainage Patterns (B10)
Saturation (A3) Man Deposits (B15) Water Marks (B1) Hydrogen Sulfide Odor (C1)	
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C	
Drift Deposits (B3) Presence of Reduced Iron (C4)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6)	
☐ Iron Deposits (B5) ☐ Thick Muck Surface (C7)	Geomorphic Position (D2)
☐ Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks)	Shallow Aquitard (D3)
Sparsely Vegetated Concave Surface (B8)	Microtopographic Relief (D4)
	FAC-Neutral Test (D5)
	Other (Explain in Remarks)
Field Observations:	
Surface Water Present: Yes V No Depth (inches):	
Water Table Present:	
Saturation Present: Yes V No Depth (inches):	Wetland Hydrology Present? ☐ Yes ✓ No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspe	ections), if available:
Remarks:	

VEGETATION				
Tree Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
Pinus strobus		30	YES	FACU
Acer rubrum		50	YES	FAC
Fagus grandifolia		20	YES	FACU
	Total Cover:	100		
Sapling Stratum				
Plot Size: 15 feet				
Scientific Name		% Cover	Dominant	Indicator
Fagus grandifolia		30	YES	FACU
	Total Cover:	30		
Shrub Stratum				
Plot Size: 15 feet		1		1
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:	0		
Herb Stratum	Total Cover.	<u> </u>		
Plot Size: 5 feet				
Scientific Name		% Cover	Dominant	Indicator
Maianthemum canadense		30	YES	FACU
Pteridium aquilinum		10	NO	FACU
Dryopteris sp.		40	YES	NONE
Coptis trifolia		20	YES	FACW
Lycopodium dendroideum		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:						Prevalence Index Worksheet: Total % Cover of: Multiply by: OBL Species: 0 x 1 = 0 FACW Species: 20 x 2 = 40 FAC Species: 50 x 3 = 150 FACU Species: 120 x 4 = 480 UPL Species: 0 x 5 = 0 Column Totals: 190 (A) 670 (B) Prevalence Index = B/A = 3.53						
1 - R 2 - D 3 - P 4 - M data Prob Indicatunless	apid Test for Hydrominance Test is: revalance is ≤ 3.0 lorphological Adap in Remarks or on lematic Hydrophyt tors of hydric soil a disturbed or proble	ophytic > 50% otations¹ a separ tic Vege and wetl	Vegetation (Provide suppor ate sheet) tation¹ (Explain)	J	esent	Hydro	ophytic \	/egetation	Present?	☐ Yes ☑ No		
Remarks	3:											
SOIL												
	Description: ([Descrik	pe to the depti	h neede	d to doc	cument	the indica	ator or confi	m the abs	sence of indicators.)		
	Matrix	Descrik	Rec	h neede dox Featu		Т	the indica	ator or confi	m the abs	sence of indicators.)		
Profile	- `	Describ	-			Loc ²		ator or confi	m the abs	sence of indicators.) Remarks		
Profile Depth	Matrix		Rec	dox Featu	ıres	Т		exture	m the abs	•		
Profile Depth (in.)	Matrix Color (Moist)	% 100	Rec Color (Moist)	% 0	Type ¹	Loc ² None	Te SILT LOAM	exture		•		
Profile Depth (in.) 1-7	Matrix Color (Moist) 10YR 3/3	% 100 D=Depl	Rec Color (Moist)	% 0	Type ¹	Loc ² None	Te SILT LOAM	exture	s. ² L(Remarks		
Profile Depth (in.) 1-7 1 Type: Hydrid Hist Hist Hyd Stra Dep Thic San San Stra	Matrix Color (Moist) 10YR 3/3 C=Concentration,	% 100 D=Depl s:	etion, RM=Redu Poly Thir Loai Loai Dep Red Dep Red Othe	% 0 ced Matri value Belo	x, CS=Co w Surface face (S9) (I Mineral (F- Matrix (F2 x (F3) urface (F6) Surface (F8)	Loc² None overed Sa (S8) (LRR LRR R, ML 1) (LRR K,	Te SILT LOAM and or Coat R, MLRA 14 RA 149B)	exture I ded Sand Grain Ind Ind Ind Ind Ind Ind Ind I	S. ² Lo cators for cam Muck (A Coast: Prairie cm Mucky P Dark Surface Polyvalue Bele Thin Dark Sur iron-Mangane Piedmont Floo Mesic Spodic Red Parent M Very Shallow	Remarks Discation: PL=Pore Lining, M=Matrix. Problematic Hydric Soils ³ 10) (LRR K, L, MLRA 149B) Redox (A16) (LRR K, L, R) Peat or Peat (S3) (LRR K, L, R) (S7) (LRR K, L, M) Dow Surface (S8) (LRR K, L) face (S9) (LRR K, L) se Masses (F12) (LRR K, L, R) Discapping Soils (F19) (MLRA 149B) (TA6) (MLRA 144A, 145, 149B)		

Restrictive Layer Present (if present):					
Туре:		Hydria Sail Brasant?	☐ Yes	✓ No	
Depth (inches):		Hydric Soil Present?	□ 162	▼ NO	
Remarks:					-

Photos



DE1NW005_20120718_UPL1NE.jpg Photo Name: Note: DE-1N-W005-UPL1

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: Dave	nport	Section	n, Township, Range: Davenport
Landform: Bottom land swamp		Loc	cal Relief:	✓ Concave ☐ Convex ☐ None Slope (%): 0
Subregion: Middle Atlantic	Latit	ude: 42.45644	41	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	y disturbed?	∕ No	Are "Normal Circumstances" present? ✓ Yes ✓ No
Are Vegetation Soil or	Hydrology naturally pr	oblematic?	No (If needed, explain any answers in Remarks.)
SUMMARY OF FINDING	S - Attach site map	showing sar	npling po	int locations, transects, important features, etc.
Hydrophytic Vegetation Present	? ✓ Yes No	lo the Co	mpled Ar	
Hydric Soil Present?	✓ Yes	Is the Sar within a \		
Wetland Hydrology Present?	✓ Yes	Within a v	rotiana i	
Remarks:				
Field Wetland Classification: Pl	=O			
HYDROLOGY				
Wetland Hydrology Indicat	ors			
Primary Indicators (minimum of one i	s required; check all that apply)			Secondary Indicators (minimum of two required)
Surface Water (A1)		ned Leaves (B9)		Surface Soil Cracks (B6)
✓ High Water Table (A2)	☐ Aquatic Fa			✓ Drainage Patterns (B10)
✓ Saturation (A3)	Marl Depos			Moss Trim Lines (B16)
Water Marks (B1)		Sulfide Odor (C1)	vina Dooto (C	Dry-Season Water Table (C2)
Sediment Deposits (B2)		hizospheres on Li		Grayiish Burlows (00)
Drift Deposits (B3)		n Reduction in Tille	•	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Surface (C7)	cu cons (co)	Stunted or Stressed Plants (D1)
☐ Iron Deposits (B5) ☐ Inundation Visible on Aerial Imag		lain in Remarks)		Geomorphic Position (D2)
Sparsely Vegetated Concave Su				Shallow Aquitard (D3)
Opensely regulated contains of	nace (bo)			Microtopographic Relief (D4)
				FAC-Neutral Test (D5)
				Other (Explain in Remarks)
Field Observations:				
Surface Water Present:	✓ Yes	(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, a	erial photos, pre	evious inspe	ctions), if available:
Remarks:				

Tree Stratum				
Plot Size: 30 feet Scientific Name		% Cover	Dominant	Indicator
Acer rubrum		70	YES	FAC
Tsuga canadensis		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
Vaccinium corymbosum		20	YES	FACW
	Total Cover:	20		
Herb Stratum				
Plot Size: 5 feet Scientific Name		% Cover	Dominant	Indicator
Osmunda cinnamomea		70	YES	FACW
Sphagnum sp.		20	YES	NONE
	Total Cover:	90		
Vine Stratum				
Plot Size: 30 feet Scientific Name		% Cover	Dominant	Indicator
	Total Cover:	0		

that are Total No Species Percent	nance Test Works of Dominant Species OBL, FACW, or FAC: umber of Dominant Across All Strata: of Dominant Species -, FACW, or FAC:	3 (A 5 (B)		Total % OBL S FACW FAC S FACU UPL S	6 Cover of: pecies: Species: pecies: Species: pecies: pecies:	0 90 70 30 0 190	Mt x 1 = x 2 = x 3 = x 4 = x 5 = (A)	0 180 210 120 0 510 2.68	- - - - - _ (B)
1 - R 2 - D 3 - P 4 - N data Prob	apid Test for Hydrophy ominance Test is > 50 revalance is ≤ 3.0 lorphological Adaptatio in Remarks or on a se lematic Hydrophytic Ve tors of hydric soil and v disturbed or problemat	tic Vegetation 6 ns¹ (Provide suppo parate sheet) getation¹ (Explain) retland hydrology n	Ū	esent	Hydro	phytic Ve	egetation P	resent?	✓ Yes □	No
Remark	3:									
SOIL										
	Description: (Desc	ribe to the dept	h neede	d to doc	cument t	the indicat	or or confire	n the abs	ence of indicat	ors.)
Profile Depth	Matrix	Red	dox Featu	ıres	T			n the abs		ors.)
Profile Depth (in.)	Matrix Color (Moist) %		dox Featu %		Loc ²	Text		n the abs	ence of indicat Remarks	ors.)
Profile Depth	Matrix	Red	dox Featu	ıres	T			n the abs		ors.)
Profile Depth (in.)	Matrix Color (Moist) %	Red	dox Featu %	ıres	T	Text	ture	n the abs		ors.)
Profile Depth (in.) 0-12	Matrix Color (Moist) % 0	Red Color (Moist)	dox Featu % 0	Type ¹	Loc ²	Text ORGANIC SANDY CLAY	ture / LOAM			
Profile Depth (in.) 0-12 12-20	Matrix Color (Moist) % 0 Gley 1 4/10Y 100	Red Color (Moist)	dox Featu % 0	Type ¹	Loc ²	Text ORGANIC SANDY CLAY	ture / LOAM d Sand Grains	² Lo	Remarks	.ining, M=Matrix.

Restrictive Layer Present (if present):	
Type:	Hydric Soil Present? ✓ Yes ☐ No
Depth (inches):	Hydric Soil Present? ✓ Yes ☐ No
Remarks:	



DE1NW156A_20120820_WET1N.jpg Photo Name: Note: DE-1N-W156-WET1

Project/Site: Constitution Milep	ost 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: Daven	port	Section	on, Township, Range: Davenport
Landform: None		Loc	cal Relief:	☐ Concave ☑ Convex ☐ None Slope (%): 2
Subregion: Middle Atlantic	Latitud	de: 42.45631	18	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 tir	ne of year?	✓ Yes	☐ No (If no, explain in Remarks.)
Are Vegetation Soil or Hydrold	ogy significantly	disturbed?	No	Are "Normal Circumstances" present? ✓ Yes No
Are Vegetation Soil or Hydrolog	gy naturally prol	blematic?	N O	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS -	Attach site map s	showing san	npling po	oint locations, transects, important features, etc.
Hydrophytic Vegetation Present?	Yes 🗸 No	Is the Sar	mpled A	702
Hydric Soil Present?	Yes ✓ No	within a V		
Wetland Hydrology Present?	Yes 🗸 No			
Remarks: Upland				
Field Wetland Classification:				
HYDROLOGY				
Wetland Hydrology Indicators				
Primary Indicators (minimum of one is required				Secondary Indicators (minimum of two required)
Surface Water (A1)		ed Leaves (B9)		Surface Soil Cracks (B6)
High Water Table (A2)	Marl Deposit			Drainage Patterns (B10)
Saturation (A3) Water Marks (B1)	_	Ilfide Odor (C1)		✓ Moss Trim Lines (B16)✓ Dry-Season Water Table (C2)
Sediment Deposits (B2)		zospheres on Li	ving Roots (
Drift Deposits (B3)	Presence of	Reduced Iron (C	(4)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Recent Iron I	Reduction in Tille	ed Soils (C6)	
☐ Iron Deposits (B5)	Thick Muck S	Surface (C7)		Geomorphic Position (D2)
☐ Inundation Visible on Aerial Imagery (B7)	Other (Explain	in in Remarks)		Shallow Aquitard (D3)
Sparsely Vegetated Concave Surface (B8	;)			Microtopographic Relief (D4)
				FAC-Neutral Test (D5)
				Other (Explain in Remarks)
Field Observations:				
Surface Water Present: Yes	✓ No Depth (ir	nches):		
Water Table Present: Yes	✓ No Depth (in			
Saturation Present: Yes	✓ No Depth (ir			Wetland Hydrology Present? ☐ Yes ✓ No
Describe Recorded Data (stream gauge	, monitoring well, aer	ial photos, pre	evious insp	ections), if available:
Remarks:				

T O				
Tree Stratum		1		
Plot Size: 30 feet			_	
Scientific Name		% Cover	Dominant	Indicator
Tsuga canadensis		40	YES	FACU
Acer saccharum		15	NO	FACU
Acer rubrum		15	NO	FAC
Betula papyrifera		10	NO	FACU
Betula alleghaniensis		10	NO	FAC
Prunus serotina		10	NO	FACU
	Total Cover:	100		
Sapling Stratum				
Plot Size: 15 feet				
Scientific Name		% Cover	Dominant	Indicator
Fagus grandifolia		10	YES	FACU
Acer saccharum		5	YES	FACU
Acer pensylvanicum		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		
		-		

that are Total N Species Percen	nance Test Wo r of Dominant Spec OBL, FACW, or FA umber of Dominant Across All Strata: t of Dominant Speci L, FACW, or FAC:	cies AC:	0 (A) 4 (B)		Total 9 OBL S FACW FAC S FACU UPL S	alence Index 6 Cover of: pecies: pecies: pecies: Species: pecies: pecies: precies:	0 0 25 95 0 120	Multi x 1 = x 2 = x 3 = x 4 = x 5 = (A)	0 0 75 380 0 455 3.79
1 - R 2 - D 3 - F 4 - N data Prob	in Remarks or on a plematic Hydrophytic	tations ¹ separa c Veget	Vegetation (Provide supporting ate sheet)	present	Hydro	ophytic Vege	etation Pre	sent?	□ Yes 🗹 No
SOIL	S:								
Depth	Description: (D	escrib	e to the depth nee Redox Fe		cument	the indicator	or confirm	the abse	nce of indicators.)
Depth (in.) 0-12	Matrix Color (Moist) 7.5YR 4/6	% 100	<u> </u>	Type 1	Loc ²	Texture CLAY LOAM	9		nce of indicators.) Remarks ation: PL=Pore Lining, M=Matrix.

Restrictive Layer Present (if present):	
Туре:	Hydric Soil Present? ☐ Yes ☑ No
Depth (inches):	Tryunc 3011 Fresent: - Tes - No
Remarks:	



DE1NW156A_20120820_UPL1SE.jpg Photo Name: Note: DE-1N-W156-UPL1

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: Daver	nport	Section,	Township, Range: Harpersfield
Landform:		Loc	cal Relief:	Concave Convex None Slope (%):
Subregion: Middle Atlantic	Latitu	ıde: 42.49355	56 L	ongitude: -74.75637 Datum: NAD1983
Soil Map Unit Name: Willdin cha	annery silt loam, 2 to 8 per	cent slopes		NWI Classification: Not mapped
Are climatic/hydrologic conditions of	on the site typical for this ti	me of year?	✓ Yes	☐ No (If no, explain in Remarks.)
Are Vegetation Soil or F	Hydrology significantly	disturbed?	No	Are "Normal Circumstances" present? ✓ Yes No
Are Vegetation Soil or H	ydrology	oblematic?	No (If	needed, explain any answers in Remarks.)
SUMMARY OF FINDING	S - Attach site map	showing sar	npling poir	nt locations, transects, important features, etc.
Hydrophytic Vegetation Present?	✓ Yes	la tha Car		_
Hydric Soil Present?	✓ Yes	within a \	mpled Are Netland?	a ✓ Yes □ No
Wetland Hydrology Present?	✓ Yes			
Remarks:		1		
Field Wetland Classification: PS	3			
HYDROLOGY				
Wetland Hydrology Indicato	rs			
Primary Indicators (minimum of one is	required; check all that apply)			Secondary Indicators (minimum of two required)
Surface Water (A1)		ed Leaves (B9)		Surface Soil Cracks (B6)
High Water Table (A2)	☐ Aquatic Fau ☐ Marl Deposi			✓ Drainage Patterns (B10)
Saturation (A3)	_	ulfide Odor (C1)		Moss Trim Lines (B16)
Water Marks (B1)		nizospheres on Li	vina Roots (C3	Dry-Season Water Table (C2)
Sediment Deposits (B2)		f Reduced Iron (C	-	Ordynan Burrows (00)
☐ Drift Deposits (B3) ☐ Algal Mat or Crust (B4)		Reduction in Tille	•	Saturation Visible on Aerial Imagery (C9)
Iron Deposits (B5)		Surface (C7)	(,	Stunted or Stressed Plants (D1)
Inundation Visible on Aerial Image		ain in Remarks)		Geomorphic Position (D2)
Sparsely Vegetated Concave Surfa	., (5.)	,		Shallow Aquitard (D3)
opariou, regulated constant carri	200 (20)			Microtopographic Relief (D4)
				FAC-Neutral Test (D5)
				Other (Explain in Remarks)
Field Observations:				
	Yes 🔽 No Depth (i			
	Yes 🔽 No Depth (i	,		
Saturation Present:	Yes No Depth (i	inches): 0		Wetland Hydrology Present? ✓ Yes □ No
Describe Recorded Data (stream	gauge, monitoring well, ae	rial photos, pre	evious inspec	tions), if available:
Remarks:				

Tree Stratum				
Plot Size: 30 feet		0/ 0	Dt	I II
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:	0		
Sapling Stratum				
Plot Size: 15 feet				
Scientific Name		% Cover	Dominant	Indicator
Acer rubrum		10	YES	FAC
	Total Cover:	10		
Shrub Stratum				
Plot Size: 15 feet		I.	ı	i i
Scientific Name		% Cover	Dominant	Indicator
Viburnum dentatum		15	YES	FAC
Vaccinium corymbosum		30	YES	FACW
Spiraea alba		30	YES	FACW
	Total Cover:	75		
Herb Stratum				
Plot Size: 5 feet				
Scientific Name		% Cover	Dominant	Indicator
Solidago gigantea		80	YES	FACW
Euthamia caroliniana		10	NO	FAC
	Total Cover:	90		
Vine Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
		1	1	

that are Total No Species Percent	nance Test Works of Dominant Species OBL, FACW, or FAC: umber of Dominant Across All Strata: of Dominant Species t _, FACW, or FAC:	5_(A	3)		Total 9 OBL S FACW FAC S FACU UPL S	alence Index W 6 Cover of: pecies: Species: pecies: pecies: n Totals:		tiply by: 0 280 105 0 0 385 (B) 2.20
1 - R 2 - D 3 - P 4 - N data Prob	apid Test for Hydrophy ominance Test is > 50° revalance is ≤ 3.0 lorphological Adaptatio in Remarks or on a sep elematic Hydrophytic Vetors of hydric soil and v disturbed or problemat	ic Vegetation solution retain (Provide supportante sheet) getation (Explain) retland hydrology n		resent	Hydro	ophytic Vegeta	<u> </u>	✓ Yes □ No
Remark	s:							
SOIL	Description (Description			14 1		41		
Profile	Description: (Desc				cument	the indicator or	confirm the abse	nce of indicators.)
	Description: (Desc Matrix Color (Moist) %		dox Feat		cument Loc ²	the indicator or Texture	confirm the abse	nce of indicators.)
Profile Depth	Matrix	Rec Color (Moist)	dox Feat	ures	Т	_	confirm the abse	·
Profile Depth (in.)	Matrix Color (Moist) %	Rec Color (Moist)	dox Feat	ures	Т	Texture	7.5YR 5/1 2% C	Remarks
Profile Depth (in.) 0-7 7-15	Matrix Color (Moist) % 7.5YR3/2 100	Color (Moist) 7.5YR 5/6	dox Featu % 0	Type ¹	Loc²	Texture SILT LOAM	7.5YR 5/1 2% C	Remarks
Profile Depth (in.) 0-7 7-15	Matrix Color (Moist) % 7.5YR3/2 100 7.5YR4/2 91	Color (Moist) 7.5YR 5/6	dox Featu % 0	Type ¹	Loc²	Texture SILT LOAM	7.5YR 5/1 2% C	Remarks

Restrictive Layer Present (if present):			
Туре:	Hydric Soil Present?	✓ Yes	□ No
Depth (inches):	Hydric 3011 Fresent?	<u>•</u> 165	□ NO
Remarks:			



DE1P_W128_12-08-06_WET1S.jpg Photo Name: Note: DE-1P-W128-WET1

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: Dave	nport	Section	on, Township, Range: Harpersfield
Landform:		Lo	cal Relief:	✓ Concave ☐ Convex ☐ None Slope (%):
Subregion: Middle Atlantic	Latit	ude: 42.4930	52	Longitude: -74.75460 Datum: NAD1983
Soil Map Unit Name: Willdin ch	annery silt loam, 2 to 8 per	rcent slopes		NWI Classification: Not mapped
Are climatic/hydrologic conditions	on the site typical for this t	ime of year?	✓ Yes	☐ No (If no, explain in Remarks.)
Are Vegetation Soil or	Hydrology significantly	v disturbed? ⊾	∕ No	Are "Normal Circumstances" present? ✓ Yes ✓ No
Are Vegetation Soil or F	Hydrology 🔲 naturally pro	oblematic?	N O	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDING	S - Attach site map	showing sar	npling po	pint locations, transects, important features, etc.
Hydrophytic Vegetation Present?	✓ Yes	Is the Sai	mplad A	roa
Hydric Soil Present?	✓ Yes	within a \		
Wetland Hydrology Present?	✓ Yes			
Remarks:				
Field Wetland Classification: PF	0			
HYDROLOGY				
Wetland Hydrology Indicate	ors			
Primary Indicators (minimum of one is				Secondary Indicators (minimum of two required)
Surface Water (A1)		ned Leaves (B9)		Surface Soil Cracks (B6)
High Water Table (A2)	☐ Aquatic Fat☐ Marl Depos			✓ Drainage Patterns (B10)
Saturation (A3)		Sulfide Odor (C1)		Moss Trim Lines (B16)
Water Marks (B1) Sediment Deposits (B2)		hizospheres on Li	ving Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Drift Deposits (B3)	Presence o	of Reduced Iron (C	24)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Recent Iron	Reduction in Tille	ed Soils (C6	
☐ Iron Deposits (B5)	☐ Thick Muck	Surface (C7)		Geomorphic Position (D2)
Inundation Visible on Aerial Image	ery (B7) Other (Expl	lain in Remarks)		Shallow Aquitard (D3)
Sparsely Vegetated Concave Sur	face (B8)			Microtopographic Relief (D4)
				FAC-Neutral Test (D5)
				Other (Explain in Remarks)
Field Observations:				
_	Yes 🗸 No Depth ((inches):		
	` ` `	inches):		
Saturation Present:	Yes No Depth (inches): 0		Wetland Hydrology Present? ✓ Yes ☐ No
Describe Recorded Data (stream	gauge, monitoring well, as	erial photos, pre	evious insp	ections), if available:
Remarks:				

VEGETATION					
Tree Stratum			1		
Plot Size: Scientific Name	30 feet		% Cover	Dominant	Indicator
Acer rubrum			90	YES	FAC
Betula alleghar	niensis		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
Vaccinium cory	vmbosum		25	YES	FACW
		Total Cover:	25		
Herb Stratum					
Plot Size: Scientific Name	5 feet		% Cover	Dominant	Indicator
Carex crinita			5	NO	OBL
Sphagnum sp.			15	YES	OBL
Solidago gigan	tea		25	YES	FACW
		Total Cover:	45		
Vine Stratum					
Plot Size:	30 feet				
Scientific Name			% Cover	Dominant	Indicator
		Total Cover:	0		

that are Total No Species Percent	r of Dominant Spect OBL, FACW, or Fumber of Dominant S Across All Strata: of Dominant Spect, FACW, or FAC:	cies FAC: it : cies that	4 (A) 4 (B)	3)		Total GOBL SEFACW FAC SEFACUUPL SE	% Cover of: pecies: Species: pecies: Species: pecies: pecies:	20 50 95 0 0 165 revalence Inde	ML x 1 = x 2 = x 3 = x 4 = x 5 = (A)	20 100 285 0 0 405 2.45
1 - R 2 - D 3 - P 4 - M data Prob ¹Indica unless	apid Test for Hydrominance Test is revalance is ≤ 3.0 dorphological Adapin Remarks or on elematic Hydrophytors of hydric soil a disturbed or problematic	rophytic > 50% otations ¹ a separ tic Vege	Vegetation (Provide supporti ate sheet) station¹ (Explain)	· ·	esent	Hydro	ophytic V	egetation P	resent?	☑ Yes □ No
Remark:	s:									
Profile	Description: ([Describ	pe to the depth	neede	d to doc	cument	the indica	tor or confir	n the abs	ence of indicators.)
Depth	Matrix		Redo	ox Featu	ıres				n the abs	
<u> </u>		Describ	1			Loc ²		tor or confir	n the abso	ence of indicators.) Remarks
Depth	Matrix		Redo	ox Featu	ıres			cture	n the abso	Remarks
Depth (in.) 0-10	Matrix Color (Moist)	% 91	Redo Color (Moist) 7.5YR 5/6	ox Featu % 7	Type ¹	Loc ²	Tex SILT LOAM	kture 7	.5YR5/1 D,M	Remarks
Depth (in.) 0-10	Matrix Color (Moist) 7.5YR 4/2	% 91 D=Dep	Redo Color (Moist) 7.5YR 5/6	ox Featu % 7	Type ¹	Loc ²	Tex SILT LOAM	cture 7	.5YR5/1 D,M	Remarks 2%
Depth (in.) 0-10 1 Type: Hydrid His His Hydrid Stra Dep Thid Sar Sar Stri	Matrix Color (Moist) 7.5YR 4/2 C=Concentration,	% 91 D=Depl s:	Redo Color (Moist) 7.5YR 5/6 letion, RM=Reduc Polyv Thin Loam Loam Deple Redo Deple Redo Other	ox Featu % 7 ced Matri value Belo Dark Surf ny Mucky ny Gleyed eted Matri ox Dark St eted Dark ox Depres	Type 1 C x, CS=Co w Surface face (S9) (L Mineral (F2) Matrix (F2)	Loc² M overed Sa (S8) (LRR LRR R, ML 1) (LRR K,	Tex SILT LOAM and or Coate R, MLRA 148 RA 149B)	ed Sand Grains Indie BB)	. 2 Lo cators for cm Muck (A1 oast: Prairie I cm Mucky Pe ark Surface (i olyvalue Belo hin Dark Surf on-Manganes iedmont Floo lesic Spodic (ed Parent Ma	Remarks 2% cation: PL=Pore Lining, M=Matrix. Problematic Hydric Soils³ 0) (LRR K, L, MLRA 149B) Redox (A16) (LRR K, L, R) eat or Peat (S3) (LRR K, L, R) S7) (LRR K, L, M) w Surface (S8) (LRR K, L) ace (S9) (LRR K, L) de Masses (F12) (LRR K, L, R) dplain Soils (F19) (MLRA 149B) TA6) (MLRA 144A, 145, 149B) terial (F21) oark Surface (TF12)

Restrictive Layer Present (if present):			
Туре:	Hydric Soil Present?	✓ Yes	□ No
Depth (inches):	nyunc son Fresent?	▼ 162	□ NO
Remarks:			



DE1P_W128_12-08-06_WET2S.jpg Photo Name: Note: DE-1P-W128-WET2

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: Dave	nport	Section	on, Township, Range: Harpersfield
Landform:		Loc	cal Relief:	✓ Concave ☐ Convex ☐ None Slope (%):
Subregion: Middle Atlantic	Latit	ude: 42.49062	22	Longitude: -74.75875 Datum: NAD1983
Soil Map Unit Name: Willdin ch	nannery silt loam, 2 to 8 per	rcent slopes		NWI Classification: Not mapped
Are climatic/hydrologic conditions	on the site typical for this t	ime of year?	✓ Yes	☐ No (If no, explain in Remarks.)
Are Vegetation Soil or	Hydrology significantly	v disturbed? ⊾	∕ No	Are "Normal Circumstances" present? ✓ Yes ✓ No
Are Vegetation Soil or I	Hydrology naturally pro	oblematic?	∕ No	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDING	S - Attach site map	showing sar	npling po	pint locations, transects, important features, etc.
Hydrophytic Vegetation Present?	? ✓ Yes No	Is the Sar	mpled A	roa
Hydric Soil Present?	✓ Yes No	within a \		
Wetland Hydrology Present?	✓ Yes			
Remarks:		<u>'</u>		
Field Wetland Classification: PE	ΞM			
HYDROLOGY				
Wetland Hydrology Indicat	ors			
Primary Indicators (minimum of one is				Secondary Indicators (minimum of two required)
Surface Water (A1)		ned Leaves (B9)		Surface Soil Cracks (B6)
High Water Table (A2)	☐ Aquatic Fau ☐ Marl Depos			Drainage Patterns (B10)
Saturation (A3)	_	Sulfide Odor (C1)		Moss Trim Lines (B16)
Water Marks (B1) Sediment Deposits (B2)		hizospheres on Li	ving Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Drift Deposits (B3)	Presence o	of Reduced Iron (C	24)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Recent Iron	Reduction in Tille	ed Soils (C6	
☐ Iron Deposits (B5)	Thick Muck	Surface (C7)		Geomorphic Position (D2)
Inundation Visible on Aerial Imag	jery (B7) Other (Expl	lain in Remarks)		Shallow Aquitard (D3)
Sparsely Vegetated Concave Su	rface (B8)			Microtopographic Relief (D4)
				FAC-Neutral Test (D5)
				Other (Explain in Remarks)
Field Observations:				
Surface Water Present:	Yes V No Depth ((inches):		
Water Table Present:	` `	inches):		
Saturation Present:	Yes No Depth (inches): 0		Wetland Hydrology Present? ✓ Yes ☐ No
Describe Recorded Data (stream	gauge, monitoring well, as	erial photos, pre	evious insp	ections), if available:
Remarks:				

	0/ 0	Daminant	lu dia atau
	% Cover	Dominant	Indicator
Total Cover:	0		
	% Cover	Dominant	Indicator
Total Cover:	0		
	% Cover	Dominant	Indicator
Total Cavari	0		
Total Cover.	0		
	% Cover	Dominant	Indicator
	15	YES	OBL
	20	YES	OBL
			OBL
	5	NO	OBL
	5	NO	FACW
	10	NO	FAC
Total Cover:	60		
	0/ 0	Dominant	Indicator
	% Cover	Dominant	illulcator
	Total Cover:	Total Cover: 0 % Cover Total Cover: 0 % Cover Total Cover: 0 5 5 5 5 5 10	% Cover Dominant

that are Total N Species Percent	nance Test World of Dominant Species OBL, FACW, or FAC number of Dominant se Across All Strata: tof Dominant Species L, FACW, or FAC:	es C:	et:2_(A)2_(B)100(A/)		Total % OBL S FACW FAC S FACU UPL S	alence Index 6 Cover of: pecies: Species: pecies: Species: pecies: precies: pecies:	45 5 10 0 60 ence Index :	x 1 = x 2 = x 3 = x 4 = x 5 = (A)	1ltiply by: 45 10 30 0 0 85 1.42	
1 - R 2 - D 3 - P 4 - N data Prob	phytic Vegetation apid Test for Hydrop cominance Test is > 5 revalance is ≤ 3.0 dorphological Adaptation in Remarks or on a second test of hydric soil and disturbed or problem	ohytic V 50% itions¹ (separat Vegeta d wetla	regetation Provide supporte sheet) ation¹ (Explain)	J	resent	Hydro	ophytic Veget			✓ Yes □ No	
Remark	s:										
SOIL	Description: (De	escribe	e to the depti	h neede	d to do	cument t	the indicator o	r confirm	the abs	ence of indicators.)	
	Description: (De	escribe	_	h neede dox Feati		cument t	the indicator o	r confirm	the abso	ence of indicators.)	
Profile	Matrix		_			Loc ²	the indicator o	r confirm	the abse	ence of indicators.) Remarks	
Profile Depth (in.)	Matrix Color (Moist) 9 7.5YR3/2 1	%	Rec Color (Moist)	dox Featu % 0	Type ¹	Loc ²	Texture SILT LOAM			Remarks	
Profile Depth (in.)	Matrix Color (Moist) 9 7.5YR3/2 1	%	Red	dox Featu %	ıres		Texture		the abso	Remarks	
Profile Depth (in.) 0-4 4-15	Matrix Color (Moist) 9 7.5YR3/2 1	% 100 100 1100 1100 1100 1100 1100 1100	Rec Color (Moist)	dox Featu % 0 7	Type ¹	Loc²	Texture SILT LOAM SILT LOAM	7.5\	′R 5/1 D,M	Remarks	fatrix.

Restrictive Layer Present (if present):	
Type:	Hydric Soil Present? ✓ Yes ☐ No
Depth (inches):	Hydric Soil Present? ✓ Yes ☐ No
Remarks:	1



DE1P_W128_12-08-06_WET3S.jpg Photo Name: Note: DE-1P-W128-WET3

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	on, Township, Range: Harpersfield
Landform: Local Relief:	☐ Concave ✓ Convex ☐ None Slope (%):
Subregion: Middle Atlantic Latitude: 42.493948	Longitude:74.75613
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 po	oint locations, transects, important features, etc.
Hydrophytic Vegetation Present? ☐ Yes ✓ No	
Hydric Soil Present?	
Wetland Hydrology Present?	•
Remarks: UPL	
Field Wetland Classification:	
HYDROLOGY	
Wetland Hydrology Indicators	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1) Water Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2) Aquatic Fauna (B13)	Drainage Patterns (B10)
Saturation (A3) Marl Deposits (B15)	Moss Trim Lines (B16)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C	Grayiish Barrows (60)
Dilli Deposits (B3)	Saturation Visible on Aerial Imagery (C9)
Algal Wat Or Grast (B4)	Stunted or Stressed Plants (D1)
and Deposits (EG)	Geomorphic Position (D2)
The state of the s	Shallow Aquitard (D3)
Sparsely Vegetated Concave Surface (B8)	Microtopographic Relief (D4)
	FAC-Neutral Test (D5)
	Other (Explain in Remarks)
Field Observations:	
Surface Water Present:	
Water Table Present:	
Saturation Present: Yes V No Depth (inches):	Wetland Hydrology Present? ☐ Yes ✓ No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspe	ections), if available:
Remarks:	

Tree Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
Prunus serotina		10	NO	FACU
Acer rubrum		20	YES	FAC
Acer saccharum		25	YES	FACU
_	Total Cover:	55		
Sapling Stratum				
Plot Size: 15 feet				
Scientific Name		% Cover	Dominant	Indicator
Acer saccharum		20	YES	FACU
	Total Cover:	20		
Shrub Stratum				
Plot Size: 15 feet				
Scientific Name		% Cover	Dominant	Indicator
Vaccinium corymbosum		15	YES	FACW
Prunus serotina		5	YES	FACU
	Total Cover:	20		
Herb Stratum		_	T	T
Plot Size: 5 feet Scientific Name		% Cover	Dominant	Indicator
Maianthemum canadense		85	YES	FACU
	Total Cover:	85		<u> </u>
Vine Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:	0		

Total No Species Percent	r of Dominant Spec OBL, FACW, or F umber of Dominan Across All Strata: of Dominant Spec FACW, or FAC:	cies FAC: it : cies that	2 (A))		Total % OBL S FACW FAC S FACU UPL S	6 Cover of: pecies: Species: pecies: Species: pecies: pecies:	0 15 20 145 0 180 revalence Index	Mt x 1 = x 2 = x 3 = x 4 = x 5 = (A)	3 6 58	0 0 0 0 (B)
1 - R 2 - D 3 - P 4 - N data Prob	apid Test for Hydrominance Test is revalance is ≤ 3.0 dorphological Adap in Remarks or on elematic Hydrophyt tors of hydric soil a disturbed or proble	ophytic > 50% otations¹ a separatic Vege and wetl	Vegetation (Provide suppor ate sheet) tation¹ (Explain)	Ū	esent	Hydro	phytic Ve	egetation P	resent?	□Yes	☑ No
Remark	s:										
SOIL											
Profile	Description: (E	Descrik	-			cument (the indicat	tor or confirr	n the abs	ence of indic	ators.)
Profile Depth	Matrix		Red	lox Featu	res	T			n the abs		-
Profile		Describ	-			Loc ²		tor or confirr	n the abs	ence of indic Remarks	-
Profile Depth (in.)	Matrix Color (Moist)	%	Red	lox Featu %	res	T	Tex		n the abs		-
Profile Depth (in.) 0-5 5-20	Matrix Color (Moist) 7.5YR3/2	% 100 100	Rec Color (Moist)	ox Featu % 0	Type ¹	Loc ²	Text SILT LOAM	ture		Remarks	-
Profile Depth (in.) 0-5 5-20	Matrix Color (Moist) 7.5YR3/2 7.5YR5/4	% 100 100 D=Depl	Rec Color (Moist)	ox Featu % 0	Type ¹	Loc ²	Text SILT LOAM	ture	² Lo	Remarks	·

Restrictive Layer Present (if present):				
Туре:	Hydric Soil Present?	☐ Yes	✓ No	
Depth (inches):	nyunc son Fresent?	□ 162	▼ NO	
Remarks:				_



DE1P_W128_12-08-06_UPL1N.jpg Photo Name: Note: DE-1P-W128-UPL1

Project/Site: Constitution Milepos	st 73.12 C	City/County:	Delaware	Sampling Date: 2012/07/28
Applicant/Owner: Williams		State:	NY	Sampling Point: DE-1W-W127-WET1
Investigator(s): CH, JM US	SGS Quad: Oneonta	а	Section	on, Township, Range:Davenport
Landform:		Loc	cal Relief:	✓ Concave ☐ Convex ☐ None Slope (%): 10
Subregion: Middle Atlantic	Latitud	e: 42.42360)7	Longitude: -75.02015 Datum: NAD1983
Soil Map Unit Name: Vly channery silt lo	oam, 8 to 15 percent	slopes		NWI Classification: Not mapped
Are climatic/hydrologic conditions on the si	ite typical for this tim	e of year?	✓ Yes	☐ No (If no, explain in Remarks.)
Are Vegetation Soil or Hydrolog	gy significantly d	isturbed?	No	Are "Normal Circumstances" present? ✓ Yes No
Are Vegetation Soil or Hydrology	y 🔲 naturally prob	lematic?	No	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - A	ttach site map sl	howing san	npling po	oint locations, transects, important features, etc.
Hydrophytic Vegetation Present? ✓ Y	′es	la tha Car	mplad A	
Hydric Soil Present? ✓ Y	′es	Is the Sar within a V		
Wetland Hydrology Present?	′es		rotiana	•
Remarks:				
Field Wetland Classification: PEM				
HYDROLOGY				
Wetland Hydrology Indicators				
Primary Indicators (minimum of one is required;	check all that apply)			Secondary Indicators (minimum of two required)
Surface Water (A1)	Water Stained	` '		Surface Soil Cracks (B6)
High Water Table (A2)	Aquatic Fauna Marl Deposits			Drainage Patterns (B10)
Saturation (A3)	Hydrogen Sulf			Moss Trim Lines (B16)
Water Marks (B1)		ospheres on Liv	vina Roots (0	Dry-Season Water Table (C2) C3) Crowfish Purrous (C9)
Sediment Deposits (B2) Drift Deposits (B3)	_	Reduced Iron (C		Craynon Barrono (66)
Algal Mat or Crust (B4)		eduction in Tille	•	Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Thick Muck S	urface (C7)		
Inundation Visible on Aerial Imagery (B7)	Other (Explain	n in Remarks)		✓ Geomorphic Position (D2) Shallow Aquitard (D2)
Sparsely Vegetated Concave Surface (B8)				Shallow Aquitard (D3) Microtopographic Relief (D4)
				FAC-Neutral Test (D5)
				Other (Explain in Remarks)
				Other (Explain in Normano)
Field Observations:				
	✓ No Depth (inc			
	No Depth (inc			
Saturation Present: Yes	No Depth (inc	ches): 2		Wetland Hydrology Present? ✓ Yes □ No
Describe Recorded Data (stream gauge, r	monitoring well, aeria	al photos, pre	evious inspe	ections), if available:
Remarks:				
T. Control of the Con				

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		1		1
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:	0		
Herb Stratum				
Plot Size: 5 feet				
Scientific Name		% Cover	Dominant	Indicator
Scirpus cyperinus		15	NO	OBL
Scirpus atrovirens		25	YES	OBL
Euthamia graminifolia		15	NO	FAC
Solidago gigantea		30	YES	FACW
Phleum pratense		5	NO	FACU
	Total Cover:	90		
Vine Stratum				
Plot Size: feet				
Plot Size: feet Scientific Name		% Cover	Dominant	Indicator

Dominance Test Worksheet Number of Dominant Species that are OBL, FACW, or FAC: Total Number of Dominant	2_(A)	Prevalence Index Total % Cover of: OBL Species: FACW Species:		tiply by: 40 60	-	
Species Across All Strata:	(B)	FAC Species:	30 15	x 3 =	45	_
Percent of Dominant Species that are OBL, FACW, or FAC:	100 (A/B)	FACU Species:	5	x 4 =	20	-
, , , , , ,		UPL Species:	5	x 5 =	25	-
		Column Totals:	95	(A)	190	(B)
		Preva	lence Index =	B/A =	2.00	_
Hydrophytic Vegetation Ind 1 - Rapid Test for Hydrophytic Ve 2 - Dominance Test is > 50% 3 - Prevalance is ≤ 3.0 4 - Morphological Adaptations¹ (P data in Remarks or on a separate Problematic Hydrophytic Vegetati ¹Indicators of hydric soil and wetlanunless disturbed or problematic.	getation rovide supporting sheet) on¹ (Explain)	Hydrophytic Vege	tation Pre	esent?	✓ Yes □	No
Remarks:						

SOIL

Depth	Matrix		Rede	ox Feat	ures			
(in.)	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²	Texture	Remarks
0-7	2.5YR3/1	100		0		None	SILT LOAM	
7-15		0	5YR5/2	3	D	М	SANDY LOAM	
7-15	5YR5/3	87	5YR4/6	10	С	М	SILT LOAM	

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

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:		Indicators for Problematic Hydric Soils ³
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 1496)	Polyvalue Below Surface (S8) (LRR R, MLRA 144 Thin Dark Surface (S9) (LRR R, MLRA 149B) Loamy Mucky Mineral (F1) (LRR K, L) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Other (Explain in Remarks)	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)
Restrictive Layer Present (if Type: Depth (inches):	present):	Hydric Soil Present?
Photos		
Photo Name: DF1WW127 20	0120728 WET1 1N ing Note:	DE-1W-W127-WET1

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: O	neonta	Section	on, Township, Range:Davenport
Landform:	Loc	cal Relief:	✓ Concave ☐ Convex ☐ None Slope (%): 15
Subregion: Middle Atlantic L	atitude: 42.42354	40	Longitude: -75.01987 Datum: NAD1983
Soil Map Unit Name: Vly channery silt loam, 8 to 15 pe	ercent slopes		NWI Classification: Not mapped
Are climatic/hydrologic conditions on the site typical for the	nis time of year?	✓ Yes	☐ No (If no, explain in Remarks.)
Are Vegetation Soil or Hydrology signification	ntly 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 m	ap showing sar	npling po	oint locations, transects, important features, etc.
Hydrophytic Vegetation Present? ☐ Yes ✓ No	le the Sa	mpled A	ro2
Hydric Soil Present? ☐ Yes ✓ No	Is the Sar within a \		
Wetland Hydrology Present? ☐ Yes ✓ No			
Remarks: UPLAND	-		
Field Wetland Classification:			
HYDROLOGY			
Wetland Hydrology Indicators			
Primary Indicators (minimum of one is required; check all that ap			Secondary Indicators (minimum of two required)
	Stained Leaves (B9)		Surface Soil Cracks (B6)
	Fauna (B13) eposits (B15)		Drainage Patterns (B10)
	en Sulfide Odor (C1)		Moss Trim Lines (B16)
Valer Marks (B1)	d Rhizospheres on Li	ving Roots (☐ Dry-Season Water Table (C2) ☐ Crayfish Burrows (C8)
	ce of Reduced Iron (C	24)	Saturation Visible on Aerial Imagery (C9)
	Iron Reduction in Tille	ed Soils (C6	
	luck Surface (C7)		Geomorphic Position (D2)
☐ Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks)		Shallow Aquitard (D3)
Sparsely Vegetated Concave Surface (B8)			Microtopographic Relief (D4)
			FAC-Neutral Test (D5)
			Other (Explain in Remarks)
Field Observations:			
	th (inches):		
	th (inches):		
	th (inches):		Wetland Hydrology Present? ☐ Yes ✓ No
Describe Recorded Data (stream gauge, monitoring well	, aerial photos, pre	evious insp	ections), if available:
Remarks:			

Tree Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
Malus sp.		60	YES	UPL
Prunus serotina		20	YES	FACU
Acer rubrum		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		ı		1
Scientific Name		% Cover	Dominant	Indicator
Vaccinium corymbosum		10	YES	FACW
	Total Cover:	10		
Herb Stratum				
Plot Size: 5 feet				
Scientific Name		% Cover	Dominant	Indicator
Solidago rugosa		5	YES	FAC
Euthamia graminifolia		15	YES	FAC
Phleum pratense		5	YES	FACU
	Total Cover:	25		
Vine Stratum				
Plot Size: 15 feet				
Scientific Name		% Cover	Dominant	Indicator

Hydro Hydro 1 - R 2 - D 3 - P 4 - M data Prob	rance Test Word of Dominant Special Control C	ation II rophytic > 50% btations¹ a separ tic Vege and wetl	3 (A) 6 (B) 50 (A) ndicators: Vegetation (Provide suppor ate sheet) tation¹ (Explain)) /B) ting	esent	Total % OBL S FACW FAC S FACU UPL S Column	n Totals: Prevaler	Worksheet: 0 x 1 = 0 10 x 2 = 20 35 x 3 = 105 25 x 4 = 100 60 x 5 = 300 130 (A) 525 (B) ence Index = B/A = 4.04 Attorner Yes No
	1	Descrik				cument t	the indicator or	r confirm the absence of indicators.)
Depth	Matrix			dox Featu		1 2		
(in.)	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²	Texture	Remarks
0-5	5YR3/2	100		0		None	SILT LOAM	
5-15	5YR4/4	100		0		None	SILT LOAM	
1 Type:	C=Concentration	D=Deni	etion RM=Redu	ced Matri	x CS=Ca	vered Sa	nd or Coated San	nd Grains. ² Location: PL=Pore Lining, M=Matrix.
			Cuon, Nivi-Redu	ocu iviaili	۸, UU-U(veien og	ina or Gualeu Salli	
Hydri	c Soil Indicator	s:						Indicators for Problematic Hydric Soils ³
His Bla Bla Stra Sar Sar Stri	tosol (A1) tic Epipedon (A2) ck Histic (A3) drogen Sulfide (A4) atified Layers (A5) bleted Below Dark Suck Dark Surface (A12 ady Mucky Mineral (Sady Gleyed Matrix (S4) dry Redox (S5) pped Matrix (S6)	2)	☐ Thir ☐ Loa ☐ Loa ☐ Dep ☐ Red ☐ Dep	n Dark Surf my Mucky my Gleyed bleted Matri lox Dark Su bleted Dark lox Depress er (Explain	ace (S9) (L Mineral (F1 Matrix (F2 x (F3) urface (F6) Surface (F sions (F8)	LRR R, MLI I) (LRR K, I)	·	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)
	k Surface (S7) (LRR	R. MLRA	. 149B)					Very Shallow Dark Surface (TF12)
	k Surface (S7) (LRR	R, MLRA	. 149B)					

Restrictive Layer Present (if present):			
Type: Depth (inches):	Hydric Soil Present?	☐ Yes	✓ No
Remarks:			



DE1WW127_20120728_UPL1_1N.jpg Photo Name: Note: DE-1W-W127-UPL1

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: Harp	ersfield	Section	on, Township, Range: Harpersfield
Landform:		Lo	cal Relief:	✓ Concave ☐ Convex ☐ None Slope (%):
Subregion: Middle Atlantic	Lati	tude: 42.49662	21	Longitude: -74.74874 Datum: NAD1983
Soil Map Unit Name: Willdin ch	nannery silt loam, 2 to 8 pe	ercent 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 significantl	ly disturbed?	∕ No	Are "Normal Circumstances" present? ✓ Yes ☐ No
Are Vegetation Soil or I	Hydrology naturally p	roblematic?	No	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDING	S - Attach site mar	showing sar	mpling po	pint locations, transects, important features, etc.
Hydrophytic Vegetation Present?				
Hydric Soil Present?	✓ Yes	Is the Sar within a \		
Wetland Hydrology Present?	✓ Yes	Within a	voliana	•
Remarks:		1		
Field Wetland Classification: PF	:O			
HYDROLOGY				
Wetland Hydrology Indicate	ors			
Primary Indicators (minimum of one is	required; check all that apply	<u>)</u>		Secondary Indicators (minimum of two required)
Surface Water (A1)		ined Leaves (B9)		Surface Soil Cracks (B6)
High Water Table (A2)		auna (B13)		✓ Drainage Patterns (B10)
Saturation (A3)	☐ Marl Depo	Sulfide Odor (C1)		Moss Trim Lines (B16)
Water Marks (B1)		Rhizospheres on Li	ivina Roots (Dry-Season Water Table (C2)
Sediment Deposits (B2) Drift Deposits (B3)		of Reduced Iron (C		Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Recent Irc	n Reduction in Till	ed Soils (C6	
☐ Iron Deposits (B5)	Thick Muc	k Surface (C7)		Geomorphic Position (D2)
Inundation Visible on Aerial Imag	ery (B7) Other (Exp	olain in Remarks)		Shallow Aquitard (D3)
Sparsely Vegetated Concave Sui	rface (B8)			✓ Microtopographic Relief (D4)
				FAC-Neutral Test (D5)
				Other (Explain in Remarks)
Field Observations:	7v			
	·	(inches):		
	<u> </u>	(inches):		W (I III I I B (I I I I I I I I I I I I I
Saturation Present:	Yes No Depth	(inches):		Wetland Hydrology Present? ✓ Yes ☐ No
Describe Recorded Data (stream	gauge, monitoring well, a	erial photos, pre	evious insp	ections), if available:
Remarks:				

	% Cover	Dominant	Indicator
	25	YES	FAC
	75	YES	FACU
	10	NO	FAC
Total Cover:	110		
	% Cover	Dominant	Indicator
Total Cover:	0		
	% Cover	Dominant	Indicator
	5	YES	FACU
Total Cover:	5		
	% Cover	Dominant	Indicator
	20	YES	FAC
Total Cover:	20		
	_		
	% Cover	Dominant	Indicator
Total Cover:	0		
	Total Cover: Total Cover:	25 75 10 Total Cover: 110	75

Numbe that are Total N Species Percen are OB	r of Dominant Spe c OBL, FACW, or umber of Dominals Across All Strate t of Dominant Spe L, FACW, or FAC	ecies FAC: nt a: ecies tha :	2 (A 4 (B 50 (A))		Total 9 OBL S FACW FAC S FACU UPL S	alence Index V 6 Cover of: pecies: Species: pecies: pecies: pecies: precies: pecies: prevaler	Morksheet: Multiply by:	
2 - D 3 - F 4 - N data Prot	Rapid Test for Hyd Dominance Test is Prevalance is ≤ 3.0 Morphological Ada in Remarks or on Dlematic Hydrophy ttors of hydric soil disturbed or prob	> 50% ptations a separ tic Vege and wet	(Provide suppor ate sheet) station¹ (Explain)	Ü	esent	Hydro	ophytic Vegeta	ation Present? ☐ Yes 🗹 No	
SOIL	s: Tsuga canade			h needec	I to do	cument	the indicator or	confirm the absence of indicators.)	
Depth	Matrix	0/		dox Featu		1 2	-	Barranta	
(in.)	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-8	7.5YR3/2	100		0			SILT LOAM		
8-15	7.5YR4/3	91	7.5YR 5/6	7	С	M	SILT LOAM	7.5YR5/1 C,M 2%	
¹ Type:	C=Concentration	, D=Dep	letion, RM=Redu	ced Matrix	, CS=C	overed Sa	and or Coated San	d Grains. ² Location: PL=Pore Lining, M=Matri	ix.
Hydri	c Soil Indicator	rs:						Indicators for Problematic Hydric Soils ³	
His Bla	tosol (A1) tic Epipedon (A2) ck Histic (A3) drogen Sulfide (A4) atified Layers (A5) pleted Below Dark S	urface (A	☐ Thii ☐ Loa ☐ Loa ☐ Dep	yvalue Belov n Dark Surfa my Mucky N my Gleyed I bleted Matrix dox Dark Su	ace (S9) (//ineral (F //Matrix (F2 (F3)	LRR R, ML 1) (LRR K, 2)	*	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)	

Restrictive Layer Present (if present):	
Туре:	Hydric Soil Present? ✓ Yes ☐ No
Depth (inches):	nyuric son Fresent? Tes - No
Remarks:	



DE1W_W129_12-08-06_WET1W.jpg Photo Name: Note: DE-1W-W129-WET1

Project/Site: Constitution Milepost 88.9	City/County: [Delaware	Sampling Date: 2012/08/06
Applicant/Owner: Williams	State: 1	NY	Sampling Point: DE-1W-W129-UPL1
Investigator(s):JM,RZ USGS Quad: _H	arpersfield	Section,	Township, Range: Harpersfield
Landform:	Loca	al Relief: 🗸	Concave Convex None Slope (%):
Subregion: Middle Atlantic L	.atitude: 42.496771	Lo	ngitude: -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 the	nis time of year?	✓ Yes	No (If no, explain in Remarks.)
Are Vegetation Soil or Hydrology signification	antly disturbed?	No	Are "Normal Circumstances" present? ✓ Yes ☐ No
Are Vegetation Soil or Hydrology naturally	y problematic?	No (If I	needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site m	ap showing sam	pling poin	t locations, transects, important features, etc.
Hydrophytic Vegetation Present? ☐ Yes ✓ No	Is the Sam	nled Area	
Hydric Soil Present? ☐ Yes ✓ No	within a W		□ Yes 🗹 No
Wetland Hydrology Present? ☐ Yes ✓ No			
Remarks: UPL			
Field Wetland Classification:			
HYDROLOGY			
Wetland Hydrology Indicators			
Primary Indicators (minimum of one is required; check all that ap			Secondary Indicators (minimum of two required)
	Stained Leaves (B9) c Fauna (B13)		Surface Soil Cracks (B6)
	eposits (B15)		☐ Drainage Patterns (B10) ☐ Moss Trim Lines (B16)
	en Sulfide Odor (C1)		Dry-Season Water Table (C2)
Water Marks (B1)	ed Rhizospheres on Livir	ng Roots (C3)	Crayfish Burrows (C8)
	ce of Reduced Iron (C4))	Saturation Visible on Aerial Imagery (C9)
	Iron Reduction in Tilled	d Soils (C6)	Stunted or Stressed Plants (D1)
☐ Iron Deposits (B5) ☐ Thick N	Muck Surface (C7)		Geomorphic Position (D2)
☐ Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks)		Shallow Aquitard (D3)
Sparsely Vegetated Concave Surface (B8)			Microtopographic Relief (D4)
			FAC-Neutral Test (D5)
			Other (Explain in Remarks)
Field Observations:			
	oth (inches):		
	oth (inches):		
	oth (inches):		Wetland Hydrology Present? ☐ Yes ✓ No
Describe Recorded Data (stream gauge, monitoring wel	l, aerial photos, previ	rious inspect	ions), if available:
Remarks:			

	% Cover	Dominant	Indicator
	75	YES	FACU
	15	NO	FAC
otal Cover:	90		
	% Cover	Dominant	Indicator
otal Cover:	0		
	% Cover	Dominant	Indicator
	5	YES	FACU
	5	YES	FACU
otal Cover:	10		
	% Cover	Dominant	Indicator
	75	YES	FACU
	15	NO	FACU
otal Cover:	90	I	
	% Cover	Dominant	Indicator
otal Cover:	0		
	otal Cover:	75 15 otal Cover: 90 % Cover 5 5 5 otal Cover: 10 % Cover 75 15 otal Cover: 90	15 NO

Dominance Test Worksheet: Number of Dominant Species	:	Prevalence Index Total % Cover of:	x Workshee		Itiply by:
that are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species that are OBL, FACW, or FAC:	0 (A) 4 (B) 0 (A/B)	OBL Species: FACW Species: FAC Species: FACU Species: UPL Species: Column Totals:	0 0 15 175 0 190	x 1 = x 2 = x 3 = x 4 = x 5 = (A)	0 0 45 700 0 745 (B)
Hydrophytic Vegetation Indi	cators:	1100			
1 - Rapid Test for Hydrophytic Veg	etation				
2 - Dominance Test is > 50%		Hydrophytic Veg	etation Pres	sent?	☐ Yes 🗹 No
☐ 3 - Prevalance is ≤ 3.0					
4 - Morphological Adaptations¹ (Pr data in Remarks or on a separate					
☐ Problematic Hydrophytic Vegetation	on¹ (Explain)				
¹ Indicators of hydric soil and wetland unless disturbed or problematic.	hydrology must be present				
Remarks:					_

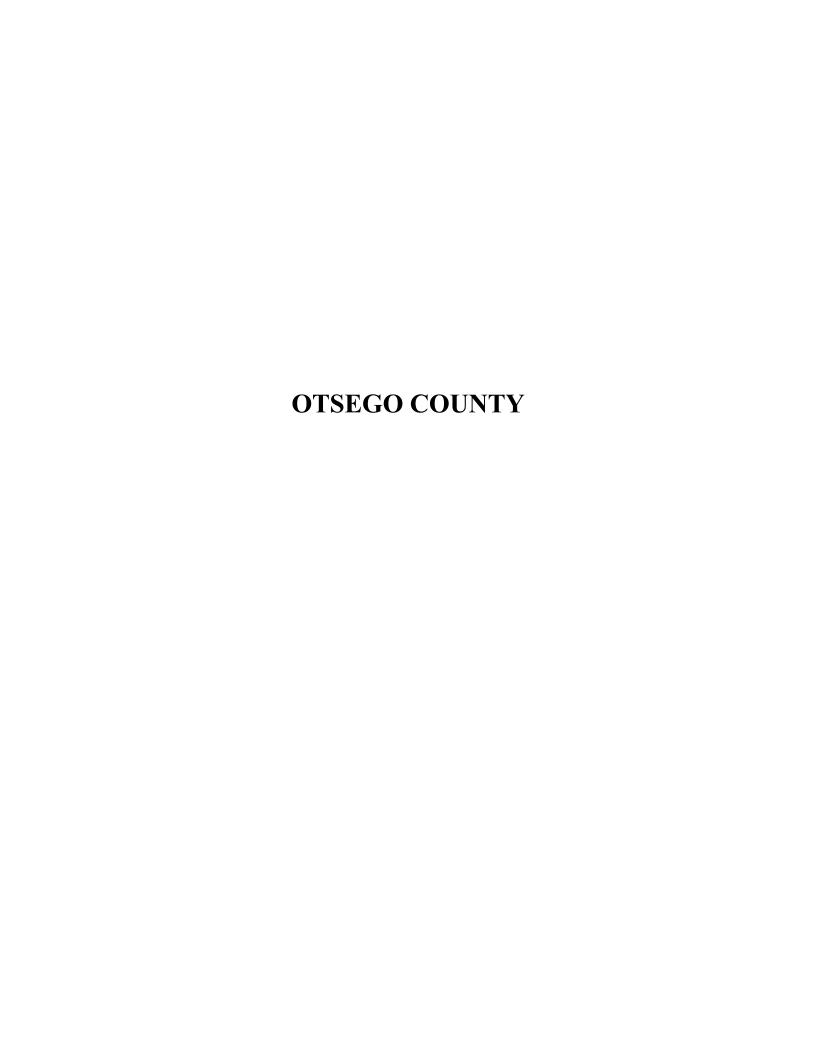
SOIL

Depth	Matrix		Redox Features						
(in.)	(in.) Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-2	7.5YR3/2	100		0			SILT LOAM		
1-0		0		0			ORGANIC	DUFF LAYER	
2-15	7.5YR4/4	100		0			SILT LOAM		

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

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indic	cators:	Indicators for Problematic Hydric Soils ³
	Loamy Mucky Mineral (F1) (LRR K, L) (A4) A5) Depleted Matrix (F2) Park Surface (A11) De (A12) Peral (S1) Control (S4) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Other (Explain in Remarks)	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)
Restrictive Lav	er Present (if present):	
_	or recom (ii precenty).	
Type:		Hydric Soil Present? ☐ Yes ☑ No
Depth (inches):		
Photos		
Photo Name:	DE1W_W129_12-08-06_UPL1NE.jpg No	te: DE-1W-W129-UPL1



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	on, Township, Range:
Landform: Depression		Lo	cal Relief:	✓ Concave ☐ Convex ☐ None Slope (%): 0
Subregion: Middle Atlantic	Latitu	de: 42.47283	38	Longitude:74.98855
Soil Map Unit Name: Chenango	gravelly silt loam, 3 to 8 pe	ercent slopes		NWI Classification: Not Mapped
Are climatic/hydrologic conditions	on the site typical for this ti	me of year?	✓ Yes	☐ No (If no, explain in Remarks.)
Are Vegetation Soil or F	Hydrology significantly	disturbed?	∕ No	Are "Normal Circumstances" present? ✓ Yes ✓ No
Are Vegetation Soil or H	ydrology naturally pro	oblematic?	∕ No	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDING	S - Attach site map	showing sar	mpling po	oint locations, transects, important features, etc.
Hydrophytic Vegetation Present?	✓ Yes	la tha Sai	mplad A	roo
Hydric Soil Present?	✓ Yes No	Is the Sar within a \		
Wetland Hydrology Present?	✓ Yes	Within a	. rotiaira	•
Remarks:				
Field Wetland Classification: PE	М			
HYDROLOGY				
Wetland Hydrology Indicato	ırs			
Primary Indicators (minimum of one is				Secondary Indicators (minimum of two required)
✓ Surface Water (A1)		ed Leaves (B9)		Surface Soil Cracks (B6)
High Water Table (A2)	Aquatic Fau	na (B13)		Drainage Patterns (B10)
Saturation (A3)	Marl Deposi	ts (B15)		Moss Trim Lines (B16)
Water Marks (B1)	Hydrogen S	ulfide Odor (C1)		Dry-Season Water Table (C2)
Sediment Deposits (B2)	✓ Oxidized Rh	izospheres on Li	iving Roots (C3) Crayfish Burrows (C8)
Drift Deposits (B3)	Presence of	Reduced Iron (C	C4)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Reduction in Till	ed Soils (C6) Stunted or Stressed Plants (D1)
☐ Iron Deposits (B5)		Surface (C7)		Geomorphic Position (D2)
Inundation Visible on Aerial Image	ry (B7) Other (Expla	ain in Remarks)		Shallow Aquitard (D3)
Sparsely Vegetated Concave Surf	ace (B8)			Microtopographic Relief (D4)
				FAC-Neutral Test (D5)
				Other (Explain in Remarks)
Field Observations				
Field Observations: Surface Water Present: ✓	Yes No Depth (i	nohoo): 2		
		nches): 2 nches): 0		
	= ' '	nches): 0		Wetland Hydrology Present? ✓ Yes ☐ No
		-		, , , , , , , , , , , , , , , , , , , ,
Describe Recorded Data (stream	gauge, monitoring well, ae	rial photos, pre	evious insp	ections), if available:
Remarks:				

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		ı	ı	ı
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
Herb Stratum				
Plot Size: 5 feet				
Scientific Name		% Cover	Dominant	Indicator
Typha angustifolia		35	YES	OBL
Scirpus cyperinus		30	YES	OBL
Juncus effusus		15	NO	OBL
Euthamia graminifolia		10	NO	FAC
Phalaris arundinacea		5	NO	FACW
	Total Cover:	95		
Vine Stratum				
Plot Size: 30 feet				
i lot olect		1 a	Dam: :	Indicator
Scientific Name		% Cover	Dominant	mulcator

_	nance Test We		et:				alence l i % Cover of	ndex Work	shee		ultiply by:		
	OBL, FACW, or F		2 (A))				1.	90	-	anapiy by.	00	
	umber of Dominar						Species: / Species:		80 5	x 1 = x 2 =	-	10	
	Across All Strata		2 (B))			species:		10	x 3 =		30	
	of Dominant Spe _, FACW, or FAC:		100 (A/	/B)			Species:	-	0	x 4 =		0	
arc obt	_, 1 AOVV, 01 1 AO.	•		,			pecies:		0	x 5 =		0	
							n Totals:		95	(A)		120 (B)
								Prevalence In	ndex =	. ,		.26	,
Hydro	phytic Vegeta	ation Ir	ndicators:										
☐ 1 - R	apid Test for Hydr	rophytic \	Vegetation										
_	ominance Test is	. ,	· ·			Hydro	ophytic '	Vegetation	Pre	sent?	✓ Yes)
✓ 3 - P	revalance is ≤ 3.0)											
	lorphological Adar in Remarks or on			ting									
Prob	lematic Hydrophy	tic Veget	tation¹ (Explain)										
¹Indica	tors of hydric soil	and wetla	and hydrology m	nust be pr	resent								
unless	disturbed or probl	lematic.											
Remarks	s:												
SOIL													
SOIL Profile	Description: (I	Describ	e to the deptl	n neede	ed to doo	cument	the indic	eator or con	firm t	he abs	ence of ind	icators	
Profile	Description: (I	Describ	-	n neede		cument	the indic	ator or con	firm t	he abs	ence of ind	icators	.)
Profile Depth	- `	Describ	-			cument		eator or conf	firm t	he abs	ence of ind Remarl		.)
Profile Depth (in.)	Matrix Color (Moist)	%	Rec	lox Featu %	Type 1	Loc ²	Te	exture					.)
Profile Depth	Matrix		Rec	lox Featu	ures			exture		he abso			.)
Profile Depth (in.)	Matrix Color (Moist)	%	Rec	lox Featu %	Type 1	Loc ²	Te	exture					.)
Profile Depth (in.) 0-12	Matrix Color (Moist) 5Y 4/2	% 98	Rec Color (Moist) 10YR 4/6	% 2	Type ¹	Loc ²	Te SANDY LC	exture DAM	40%	Gravel	Remari	ks	
Profile Depth (in.) 0-12	Matrix Color (Moist) 5Y 4/2 C=Concentration,	% 98 D=Deple	Rec Color (Moist) 10YR 4/6	% 2	Type ¹	Loc ²	Te SANDY LC	exture DAM	40%	Gravel		ks	
Profile Depth (in.) 0-12	Matrix Color (Moist) 5Y 4/2	% 98 D=Deple	Rec Color (Moist) 10YR 4/6	% 2	Type ¹	Loc ²	Te SANDY LC	exture DAM ated Sand Gra	40% ins.	Gravel ² Lo	Remari	ks ore Linin	g, M=Matrix.
Profile Depth (in.) 0-12 1 Type: Hydrid	Matrix Color (Moist) 5Y 4/2 C=Concentration,	% 98 D=Deple	Rec Color (Moist) 10YR 4/6 etion, RM=Redu	% 2 ced Matri	Type 1 C ix, CS=Co	Loc² PL overed Sa (S8) (LRR	SANDY LC	exture DAM ated Sand Gra	40% ins.	Gravel ² Lo ors for	Remarl	ks ore Linin	g, M=Matrix.
Profile Depth (in.) 0-12 1 Type: Hydrid	Matrix Color (Moist) 5Y 4/2 C=Concentration, C Soil Indicator	% 98 D=Deple	Rec Color (Moist) 10YR 4/6 etion, RM=Redu	ced Matri	Type 1 C ix, CS=Co ow Surface face (S9) (I	Loc² PL overed Sa (S8) (LRR LRR R, ML	SANDY LC sand or Coa R, MLRA 1- RA 149B)	exture DAM ated Sand Gra	40% ins.	Gravel ² Lo ors for Muck (A1	Remark cation: PL=Po	ks ore Linin c Hydr i //LRA 149	g, M=Matrix. ic Soils
Profile Depth (in.) 0-12 1 Type: Hydrid Hist	Matrix Color (Moist) 5Y 4/2 C=Concentration, C Soil Indicator	% 98 D=Deple	Rec Color (Moist) 10YR 4/6 etion, RM=Redu Poly Thir Loa	ced Matri value Belo n Dark Surf	Type 1 C ix, CS=Co ow Surface face (S9) (I Mineral (F	Loc ² PL overed Sa (S8) (LRR LRR R, ML I) (LRR K,	SANDY LC sand or Coa R, MLRA 1- RA 149B)	exture DAM ated Sand Gra	40% ins. dicat 2 cm Coas	Gravel 2 Lo ors for Muck (A1 bt: Prairie I	Remark cation: PL=Po Problemati	ore Linin C Hydr MLRA 149 RR K, L, F	g, M=Matrix. ic Soils B)
Profile Depth (in.) 0-12 1 Type: Hydrid Hist Blad Hyd	Matrix Color (Moist) 5Y 4/2 C=Concentration, C Soil Indicator tosol (A1) tic Epipedon (A2) tic Epipedon (A2) tic Histic (A3) lrogen Sulfide (A4)	% 98 D=Deple	Rec Color (Moist) 10YR 4/6 etion, RM=Redu Poly Thir Loa Loa	ced Matri value Beld n Dark Surf my Mucky my Gleyed	Type 1 C ix, CS=Co ow Surface face (S9) (I Mineral (F- I Matrix (F2)	Loc ² PL overed Sa (S8) (LRR LRR R, ML I) (LRR K,	SANDY LC sand or Coa R, MLRA 1- RA 149B)	exture DAM ated Sand Gra	40% ins. dicat 2 cm Coas 5 cm	Gravel ² Lo ors for Muck (A1 st: Prairie I Mucky Pe	Remark cation: PL=Po Problemati 10) (LRR K, L, M Redox (A16) (LI	ore Linin C Hydri ILRA 149 RR K, L, F	g, M=Matrix. ic Soils B)
Profile Depth (in.) 0-12 1 Type: Hydrid Hist Hist Hyd	Matrix Color (Moist) 5Y 4/2 C=Concentration, c Soil Indicator tosol (A1) tic Epipedon (A2) ck Histic (A3) drogen Sulfide (A4) attified Layers (A5)	% 98 D=Deplo	Rec Color (Moist) 10YR 4/6 etion, RM=Redu Poly Thir Loa Loa Dep	ced Matri walue Belo Dark Surl my Mucky my Gleyed	Type 1 C ix, CS=Co ow Surface face (S9) (I Mineral (F- I Matrix (F2 ix (F3)	Loc² PL overed Sa (S8) (LRR LRR R, ML 1) (LRR K,	SANDY LC sand or Coa R, MLRA 1- RA 149B)	exture DAM ated Sand Gra	40% ins. dicat 2 cm Coas 5 cm Dark	Gravel 2 Lo Ors for Muck (A1 st: Prairie I Mucky Pe Surface (6)	Remark cation: PL=Pc Problemati 10) (LRR K, L, M Redox (A16) (Li eat or Peat (S3)	c Hydri LC Hydri LCRA 149 RR K, L, F (LRR K, I	g, M=Matrix. ic Soils B) R) L, R)
Profile Depth (in.) 0-12 1 Type: Hydrid Hist Hist Blac Hyd Stra Dep	Matrix Color (Moist) 5Y 4/2 C=Concentration, C Soil Indicator tosol (A1) tic Epipedon (A2) ck Histic (A3) trogen Sulfide (A4) atified Layers (A5) bleted Below Dark Su	% 98 D=Depletes:	Rec Color (Moist) 10YR 4/6 etion, RM=Redu Poly Thir Loa Loa Dep Red 1)	ced Matri yvalue Belo n Dark Surl my Mucky my Gleyed bleted Matri lox Dark Si	Type 1 C ix, CS=Co ow Surface face (S9) (I Mineral (F-1) I Matrix (F2) ix (F3) urface (F6)	Loc² PL overed Sa (S8) (LRR LRR R, ML 1) (LRR K,	SANDY LC sand or Coa R, MLRA 1- RA 149B)	exture DAM ated Sand Gra	ins. dicat 2 cm Coas 5 cm Dark Polyv	Gravel 2 Lo Ors for Muck (A1 st: Prairie I Mucky Pe Surface (value Belo	Remark cation: PL=Po Problemati 10) (LRR K, L, M Redox (A16) (Li eat or Peat (S3) S7) (LRR K, L,	ore Linin C Hydri MLRA 149 RR K, L, F (LRR K, M) (LRR K, L	g, M=Matrix. ic Soils B) R) L, R)
Profile Depth (in.) 0-12 1 Type: Hydrid Hist Hist Blad Hyd Stra Dep	Matrix Color (Moist) 5Y 4/2 C=Concentration, c Soil Indicator tosol (A1) tic Epipedon (A2) ck Histic (A3) drogen Sulfide (A4) attified Layers (A5) oleted Below Dark Suck Dark Surface (A12)	% 98 D=Deplo	Rec Color (Moist) 10YR 4/6 etion, RM=Redu Poly Thir Loa Loa Dep Red Dep	ced Matri yvalue Belc n Dark Suri my Mucky my Gleyed pleted Matri dox Dark Soleted Dark	Type 1 C ix, CS=Co ow Surface face (S9) (I Mineral (F- I Matrix (F2) ix (F3) urface (F6) c Surface (F6)	Loc² PL overed Sa (S8) (LRR LRR R, ML 1) (LRR K,	SANDY LC sand or Coa R, MLRA 1- RA 149B)	exture DAM ated Sand Gra	40% ins. dicat 2 cm Coas 5 cm Dark Polyv Thin	Gravel 2 Lo Ors for Muck (A1 st: Prairie I Mucky Pe Surface (i value Belo Dark Surf.	Remark cation: PL=Po Problemati 10) (LRR K, L, M Redox (A16) (Li eat or Peat (S3) S7) (LRR K, L, w Surface (S8)	c Hydri LRA 149 RR K, L, F (LRR K, I M) (LRR K, I	g, M=Matrix. ic Soils B) R) L, R)
Profile Depth (in.) 0-12 1 Type: Hydrid Hist Hist Hist Hyd Stra Dep Thic	Matrix Color (Moist) 5Y 4/2 C=Concentration, c Soil Indicator tosol (A1) tic Epipedon (A2) ck Histic (A3) drogen Sulfide (A4) atified Layers (A5) oleted Below Dark Suck Dark Surface (A12 ddy Mucky Mineral (S	% 98 D=Deplors:	Rec Color (Moist) 10YR 4/6 etion, RM=Redu Poly Thir Loa Loa V Dep Red Dep Red	ced Matri value Belo n Dark Surl my Mucky my Gleyed bleted Matri lox Dark Si bleted Dark lox Depres	Type 1 C ix, CS=Co w Surface face (S9) (I Mineral (F- I Matrix (F2) ix (F3) urface (F6) c Surface (F8)	Loc² PL Overed Sa (S8) (LRR LRR R, ML 1) (LRR K,	SANDY LC sand or Coa R, MLRA 1- RA 149B)	exture DAM ated Sand Gra	40% ins. dicat 2 cm Coas 5 cm Dark Polyv Thin	Gravel 2 Lo Ors for Muck (A1 5t: Prairie I Mucky Pe Surface (i value Belo Dark Surf Manganes	Remark cation: PL=Po Problemati 10) (LRR K, L, M Redox (A16) (Li eat or Peat (S3) S7) (LRR K, L, ow Surface (S8) face (S9) (LRR I	c Hydri LRA 149 RR K, L, F (LRR K, I M) (LRR K, L K, L)	g, M=Matrix. ic Soils B) R) L, R) L, R)
Profile Depth (in.) 0-12 1 Type: Hydrid Hist Hist Hist Stra Dep Thic San San	Matrix Color (Moist) 5Y 4/2 C=Concentration, c Soil Indicator tosol (A1) tic Epipedon (A2) ck Histic (A3) lrogen Sulfide (A4) atified Layers (A5) bleted Below Dark Such Dark Surface (A12 ddy Mucky Mineral (Standy Gleyed Matrix (S4)	% 98 D=Deplors:	Rec Color (Moist) 10YR 4/6 etion, RM=Redu Poly Thir Loa Loa V Dep Red Dep Red	ced Matri value Belo n Dark Surl my Mucky my Gleyed bleted Matri lox Dark Si bleted Dark lox Depres	Type 1 C ix, CS=Co ow Surface face (S9) (I Mineral (F- I Matrix (F2) ix (F3) urface (F6) c Surface (F6)	Loc² PL Overed Sa (S8) (LRR LRR R, ML 1) (LRR K,	SANDY LC sand or Coa R, MLRA 1- RA 149B)	exture DAM ated Sand Gra	40% dicat 2 cm Coas 5 cm Dark Polyv Thin Iron-I	Gravel 2 Lo Ors for Muck (A1 St: Prairie I Mucky Pe Value Belo Dark Surface (Value Belo Dark Surface S	Remark cation: PL=Pc Problemati 10) (LRR K, L, M Redox (A16) (Life eat or Peat (S3) S7) (LRR K, L, ow Surface (S8) face (S9) (LRR I) see Masses (F12)	ks Ore Linin C Hydri (LRA 149 RR K, L, F (LRR K, I) (LRR K, L) g, M=Matrix. ic Soils B) R) L, R) L, R) L, R)	
Profile Depth (in.) 0-12 1 Type: Hydrid Hist Blac Hyd Stra Dep Thic San San San	Matrix Color (Moist) 5Y 4/2 C=Concentration, C Soil Indicator tosol (A1) tic Epipedon (A2) ck Histic (A3) drogen Sulfide (A4) atified Layers (A5) oleted Below Dark Suck Dark Surface (A12 ddy Mucky Mineral (Sady Gleyed Matrix (S4) ddy Redox (S5)	% 98 D=Deplors:	Rec Color (Moist) 10YR 4/6 etion, RM=Redu Poly Thir Loa Loa V Dep Red Dep Red	ced Matri value Belo n Dark Surl my Mucky my Gleyed bleted Matri lox Dark Si bleted Dark lox Depres	Type 1 C ix, CS=Co w Surface face (S9) (I Mineral (F- I Matrix (F2) ix (F3) urface (F6) c Surface (F8)	Loc² PL Overed Sa (S8) (LRR LRR R, ML 1) (LRR K,	SANDY LC sand or Coa R, MLRA 1- RA 149B)	exture DAM ated Sand Gra	ins. dicat 2 cm Coas 5 cm Dark Polyv Thin Iron-I Piedr Mesi	Gravel 2 Lo Ors for Muck (A1 st: Prairie I Mucky Pe Surface (value Belo Dark Surf Manganes mont Flood c Spodic (Remark Cation: PL=Po Problemati 10) (LRR K, L, M Redox (A16) (LR eat or Peat (S3) S7) (LRR K, L, w Surface (S8) face (S9) (LRR I se Masses (F12 dplain Soils (F1	ks Ore Linin C Hydri (LRA 149 RR K, L, F (LRR K, I) (LRR K, L) g, M=Matrix. ic Soils B) R) L, R) L, R) L, R)	
Profile Depth (in.) 0-12 1 Type: Hydrid Hist Hist Hist Stra Dep Thic	Matrix Color (Moist) 5Y 4/2 C=Concentration, C Soil Indicator tosol (A1) tic Epipedon (A2) ck Histic (A3) lrogen Sulfide (A4) atified Layers (A5) bleted Below Dark Suck Dark Surface (A12 ady Mucky Mineral (S) ady Gleyed Matrix (S4) ady Redox (S5) pped Matrix (S6)	% 98 D=Deplores:	Rec Color (Moist) 10YR 4/6 etion, RM=Redu Poly Thir Loa Loa Dep Red Dep Red Oth	ced Matri value Belo n Dark Surl my Mucky my Gleyed bleted Matri lox Dark Si bleted Dark lox Depres	Type 1 C ix, CS=Co w Surface face (S9) (I Mineral (F- I Matrix (F2) ix (F3) urface (F6) c Surface (F8)	Loc² PL Overed Sa (S8) (LRR LRR R, ML 1) (LRR K,	SANDY LC sand or Coa R, MLRA 1- RA 149B)	exture DAM ated Sand Gra	40% dicat 2 cm Coas 5 cm Dark Polyv Thin Iron-I Piedr Mesic	Gravel 2 Lo Ors for Muck (A1 st: Prairie I Mucky Pe Surface (i value Belo Dark Surf Manganes mont Floo c Spodic (Parent Ma	Remark Cation: PL=Po Problemati 10) (LRR K, L, M Redox (A16) (Li eat or Peat (S3) S7) (LRR K, L, w Surface (S8) face (S9) (LRR I se Masses (F12 dplain Soils (F1 TA6) (MLRA 14	ore Linin C Hydri MLRA 149 RR K, L, F (LRR K, I) (LRR K, I)) (LRR K, 9) (MLRA K, 144, 145,	g, M=Matrix. ic Soils B) R) L, R) L, R) L, R)
Profile Depth (in.) 0-12 1 Type: Hydrid Hist Hist Hist Stra Dep Thic	Matrix Color (Moist) 5Y 4/2 C=Concentration, C Soil Indicator tosol (A1) tic Epipedon (A2) ck Histic (A3) drogen Sulfide (A4) atified Layers (A5) oleted Below Dark Suck Dark Surface (A12 ddy Mucky Mineral (Sady Gleyed Matrix (S4) ddy Redox (S5)	% 98 D=Deplores:	Rec Color (Moist) 10YR 4/6 etion, RM=Redu Poly Thir Loa Loa Dep Red Dep Red Oth	ced Matri value Belo n Dark Surl my Mucky my Gleyed bleted Matri lox Dark Si bleted Dark lox Depres	Type 1 C ix, CS=Co w Surface face (S9) (I Mineral (F- I Matrix (F2) ix (F3) urface (F6) c Surface (F8)	Loc² PL Overed Sa (S8) (LRR LRR R, ML 1) (LRR K,	SANDY LC sand or Coa R, MLRA 1- RA 149B)	exture DAM ated Sand Gra	ins. dicat 2 cm Coas 5 cm Dark Polyv Thin Iron-I Piedr Mesid Red Very	Gravel 2 Lo Ors for Muck (A1 st: Prairie I Mucky Pe Surface (i value Belo Dark Surf. Manganes mont Floor c Spodic (Parent Ma Shallow E	Remark Cation: PL=Po Problemati 10) (LRR K, L, M Redox (A16) (Li eat or Peat (S3) S7) (LRR K, L, ow Surface (S8) face (S9) (LRR I se Masses (F12 dplain Soils (F1 TA6) (MLRA 14 aterial (F21)	ore Linin C Hydri MLRA 149 RR K, L, F (LRR K, I) (LRR K, I)) (LRR K, 9) (MLRA K, 144, 145,	g, M=Matrix. ic Soils B) R) L, R) L, R) L, R)

Restrictive Layer Present (if present):				
Туре:	Llyaduia	Soil Broomt?	✓ Yes	□ No
Depth (inches):	nyana	: Soil Present?	▼ 1es	□ NO
Remarks:	1			
Auger refusal @12"				



OT1CW001_102213_WET1W.jpg Photo Name: Note: OT-1C-W001-WET1

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	on, Township, Range:
Landform: Hillslope		Lo	cal Relief:	☐ Concave ☐ Convex ✔ None Slope (%): 30
Subregion: Middle Atlantic	Latitu	ude: 42.4728	95	Longitude: -74.98861 Datum: NAD 1988
Soil Map Unit Name: Chenang	o gravelly silt loam, 3 to 8 p	ercent slopes		NWI Classification: Not Mapped
Are climatic/hydrologic conditions	on the site typical for this t	ime 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	oblematic?	N O	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDING	3S - Attach site map	showing sa	mpling po	oint locations, transects, important features, etc.
Hydrophytic Vegetation Present?	? ☐ Yes 🗸 No	le the Sa	mplad A	roa
Hydric Soil Present?	☐ Yes 🗸 No	Is the Sa within a		
Wetland Hydrology Present?	☐ Yes 🗸 No			
Remarks: Upland plot. Within c	ppen field.			
Field Wetland Classification:				
HYDROLOGY				
Wetland Hydrology Indicat	ors			
Primary Indicators (minimum of one i				Secondary Indicators (minimum of two required)
Surface Water (A1)		ned Leaves (B9)		Surface Soil Cracks (B6)
High Water Table (A2)	☐ Aquatic Fau ☐ Marl Depos			Drainage Patterns (B10)
Saturation (A3) Water Marks (B1)		Sulfide Odor (C1)		
Sediment Deposits (B2)		nizospheres on L	iving Roots (
Drift Deposits (B3)		f Reduced Iron (0	-	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Recent Iron	Reduction in Till	ed Soils (C6	
☐ Iron Deposits (B5)	☐ Thick Muck	Surface (C7)		Geomorphic Position (D2)
☐ Inundation Visible on Aerial Imag	gery (B7) Other (Expl	ain in Remarks)		Shallow Aquitard (D3)
Sparsely Vegetated Concave Su	rface (B8)			Microtopographic Relief (D4)
				FAC-Neutral Test (D5)
				Other (Explain in Remarks)
Field Observations:				
Surface Water Present:	Yes 🗸 No Depth (
Water Table Present:	Yes V No Depth (,		
Saturation Present:	Yes V No Depth (inches):		Wetland Hydrology Present? ☐ Yes ✓ No
Describe Recorded Data (stream	ngauge, monitoring well, ae	erial photos, pre	evious insp	ections), if available:
Remarks:				

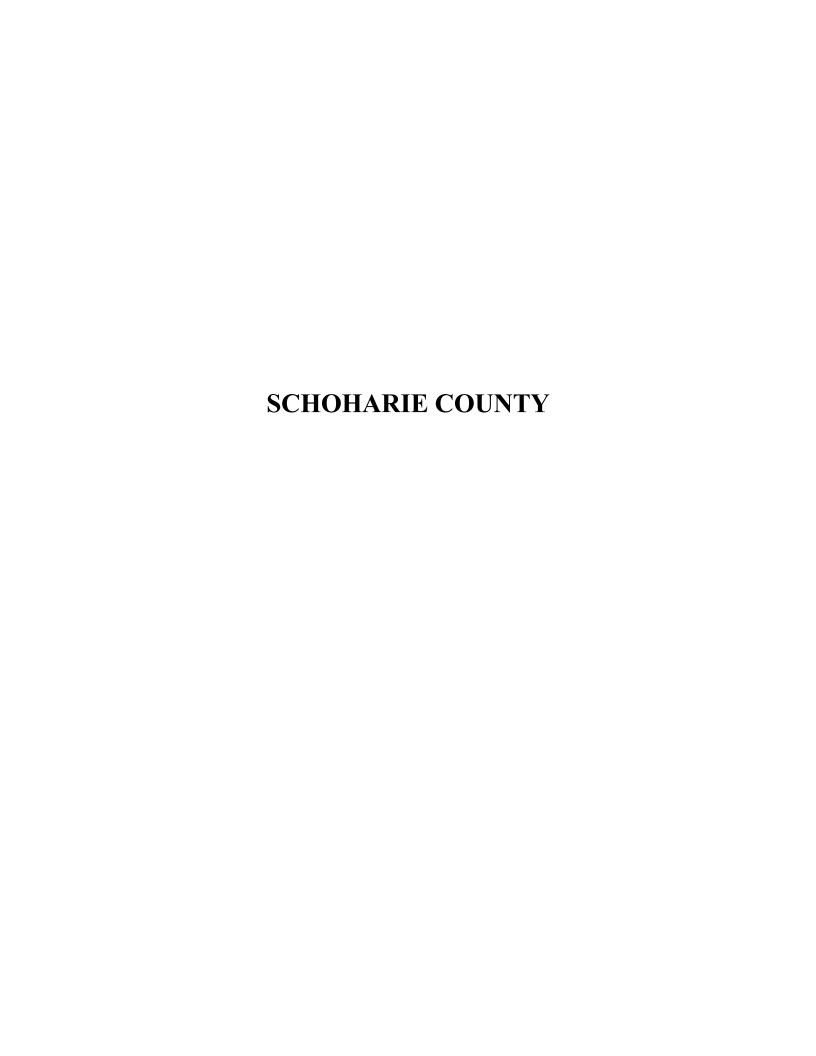
	% Cover	Dominant	Indicator
Total Cover:			
	% Cover	Dominant	Indicator
Total Cover:			
	1	1	
	% Cover	Dominant	Indicator
Total Cover:			
	% Cover	Dominant	Indicator
	20	YES	FACU
	20	YES	FACU
	10	NO	FACU
	10	NO	UPL
	10	NO	FAC
	5	NO	FACU
	5	NO	FACW
	20	YES	NONE
Total Cover:	100		
	% Cover	Dominant	Indicator
	Total Cover:	Total Cover: % Cover	% Cover Dominant Total Cover: % Cover Dominant 20 YES 20 YES 20 YES 10 NO 10 NO 10 NO 5 NO 20 YES

that are Total N Species Percen are OB	nance Test Wol or of Dominant Specie & OBL, FACW, or FA umber of Dominant & Across All Strata: t of Dominant Specie L, FACW, or FAC:	ies AC: ies that	0 (A) 3 (B) 0 (A/B)		Total OBL S FACW FAC S FACU UPL S	% Cover of: Species: / Species: Species: Species: Species: In Totals:	0 5 10 55 10 80 evalence Index =	Multi x 1 = x 2 = x 3 = x 4 = x 5 = (A)	10 10 30 220 50 310 3.88	
1 - F 2 - C 3 - F 4 - N data Prot	disturbed or probler	ations ¹ separa Vegei	Vegetation (Provide supporting ate sheet)	e present	Hydro	ophytic Ve	getation Pre	esent?	☐ Yes ☑ No	
SOIL	S.									
Depth	Description: (De	escrib	e to the depth nee Redox F		cument	the indicate	or or confirm	the abse	nce of indicators.)	
-	Matrix	escrib %	-	eatures		Texts	ure	the abse	nce of indicators.) Remarks	

Restrictive Layer Present (if present):			
Туре:	Hydric Soil Present?	☐ Yes	✓ No
Depth (inches):	Tryunc 3011 Fresent:	□ 1 63	☑ NO
Remarks:			



OT1CW001_102213_UPL1N.jpg Photo Name: Note: OT-1C-W001-UPL1



Project/Site Constitution Milepost 118.67 City/County: Schohari	e Sampling Date: 2013/12/06
Applicant/Owner: Williams State: NY	Sampling Point: SC-1A-W160A-WET1
Investigator(s): PL;KH USGS Quad: Schoharie Section	on, Township, Range: Schoharie
Landform: Drainageway Local Relief:	✓ Concave ☐ Convex ☐ None Slope (%): 2
Subregion: Middle Atlantic Latitude: 42.708696	Longitude:74.29724
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 po	oint locations, transects, important features, etc.
Hydrophytic Vegetation Present?	rea
Hydric Soil Present? Yes No within a Wetland	
Wetland Hydrology Present? ✓ Yes ☐ No	
Remarks: veg disturbance due to cleared path	
Field Wetland Classification: PFO	
HYDROLOGY	
Wetland Hydrology Indicators	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1) ✓ Water Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2) High Water Table (A2) ✓ Saturation (A3) Marl Deposits (B15)	✓ Drainage Patterns (B10)
	Moss Trim Lines (B16)
Water Marks (B1) ☐ Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) ☐ Oxidized Rhizospheres on Living Roots (C1)	C3) Dry-Season Water Table (C2) C3) Crayfish Burrows (C8)
☐ Drift Deposits (B2) ☐ Presence of Reduced Iron (C4)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6)	
☐ Iron Deposits (B5) ☐ Thick Muck Surface (C7)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Shallow Aquitard (D3)
Sparsely Vegetated Concave Surface (B8)	Microtopographic Relief (D4)
	FAC-Neutral Test (D5)
	Other (Explain in Remarks)
Field Observations:	
Surface Water Present:	
Water Table Present: ☐ Yes ✓ No Depth (inches):	was a second Na
Saturation Present: Yes No Depth (inches): 0	Wetland Hydrology Present? ✓ Yes ☐ No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous insp	ections), if available:
Remarks:	

Tree Stratum					
Plot Size: 30 Scientific Name	feet		% Cover	Dominant	Indicator
Pinus strobus			35	YES	FACU
		Total Cover:	35		,
Sapling Stratum					
Plot Size: 15 f Scientific Name	feet		% Cover	Dominant	Indicator
		Total Cover:			
Shrub Stratum					
Plot Size: 1: Scientific Name	5 feet		% Cover	Dominant	Indicator
Cornus racemosa			20	YES	FAC
Viburnum recognitu	ım		5	NO	NONE
Lonicera sp			12	YES	FAC
		Total Cover:	37	1	
Herb Stratum					
Plot Size: 5 Scientific Name	feet		% Cover	Dominant	Indicator
Onoclea sensibilis			65	YES	FACW
		Total Cover:	65		
Vine Stratum					
Plot Size: 30 Scientific Name	feet		% Cover	Dominant	Indicator
		Total Cover:			

Total Number Species Acropercent of Dare OBL, FA Hydrophy ☐ 1 - Rapid ☑ 2 - Domin ☑ 3 - Preval ☐ 4 - Morph data in Recommended in Recommended in Indicators of the species of the sp	ce Test Workshoominant Species -, FACW, or FAC: er of Dominant oss All Strata: cominant Species that CW, or FAC: /tic Vegetation I Test for Hydrophytic nance Test is > 50% lance is ≤ 3.0 nological Adaptations emarks or on a sepan atic Hydrophytic Vege of hydric soil and wet urbed or problematic.	d (A) 4 (B) 75 (A) ndicators: Vegetation (Provide supportate sheet) etation¹ (Explain)) /B) tting	esent	Total 9 OBL S FACW FAC S FACU UPL S Colum	alence Index W 6 Cover of: pecies: Species: pecies:	Multiply by: $0 x 1 = 0$ $65 x 2 = 130$ $32 x 3 = 96$ $35 x 4 = 140$ $0 x 5 = 0$ $132 (A) 366 (B)$ the Index = B/A = 2.77	
SOIL Profile Des	scription: (Descri	ho to the don't	n noodo	d to doo	sumant.	sho indicator or o	confirm the absence of indicators.)	
		be to the depti	i neede	u to uot				
LIMITI	Matriy	Rec	lov Featu		Jamone			
Depth (in.) Col	Matrix Ior (Moist) %	Red Color (Moist)	dox Featu %		Loc ²	Texture	Remarks	
	lor (Moist) %		1	ires	T			
(in.) Co	lor (Moist) % / 3/2 100		1	ires	T	Texture		
(in.) Col 0-5 2.5Y 5-16 2.5Y	lor (Moist) % / 3/2 100	Color (Moist) 10YR 3/4	10	Type ¹	Loc²	Texture FINE SANDY LOAM FINE SANDY LOAM	Remarks	atrix.
(in.) Col 0-5 2.5Y 5-16 2.5Y	lor (Moist) % / 3/2 100 / 4/1 90	Color (Moist) 10YR 3/4	10	Type ¹	Loc²	Texture FINE SANDY LOAM FINE SANDY LOAM	Remarks	

Restrictive Layer Present (if present):	
Туре:	Hydric Soil Present? ✓ Yes ☐ No
Depth (inches):	nyunc son Fresent? Tes - No
Remarks:	



SC1AW160A_120613_WET1NW.jpg Photo Name: Note: SC-1A-W160A-WET1

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, 7	Township, Range: Schoharie
Landform: Sideslope Local Relief:	Concave Convex None Slope (%): 5
Subregion: Middle Atlantic Latitude: 42.708657 Lor	ongitude: -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 n	needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sampling point	t locations, transects, important features, etc.
Hydrophytic Vegetation Present? ☐ Yes ✓ No	
Hydric Soil Present?	□ Yes 🗹 No
Wetland Hydrology Present? ☐ Yes ✓ No	
Remarks: Upland Plot	
Field Wetland Classification:	
HYDROLOGY	
Wetland Hydrology Indicators	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1) Water Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) Marl Deposits (B15)	Drainage Patterns (B10)
Saturation (A3) Water Marks (B1) Hydrogen Sulfide Odor (C1)	
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3)	Crayfish Burrows (C8)
Drift Deposits (B3) Presence of Reduced Iron (C4)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6)	Stunted or Stressed Plants (D1)
Iron Deposits (B5) Thick Muck Surface (C7)	Geomorphic Position (D2)
☐ Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks)	Shallow Aquitard (D3)
Sparsely Vegetated Concave Surface (B8)	Microtopographic Relief (D4)
	FAC-Neutral Test (D5)
	Other (Explain in Remarks)
Field Observations:	
Surface Water Present: Yes No Depth (inches):	
Water Table Present:	Wetland Hydrology Present? ☐ Yes ✔ No
Saturation Present: Yes V No Depth (inches):	Wetland Hydrology Present? ☐ Yes ✓ No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection	ions), if available:
Remarks:	

Tree Stratum				
Plot Size: 30 feet Scientific Name		% Cover	Dominant	Indicator
Pinus strobus		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
Betula nigra		25	YES	FACW
Cornus amomum		8	NO	FACW
Acer saccharum		15	YES	FACU
	Total Cover:	48		1
Herb Stratum				
Plot Size: 5 feet Scientific Name		% Cover	Dominant	Indicator
Dryopteris intermedia		10	YES	FAC
Pinus strobus		3	NO	FACU
	Total Cover:	13	1	
Vine Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			

that are OBL, I Total Number Species Acros Percent of Dor are OBL, FAC	s All Strata: ninant Species tha	2 (A 4 (B 50 (A)		OBL S FACW FAC S FACU UPL S	alence Index We 6 Cover of: pecies: Species: pecies: pecies: n Totals: Prevalence	Multiply by: 0
3 - Prevalar 4 - Morpholdata in Rem Problematic	ce Test is > 50% ce is ≤ 3.0 gical Adaptations arks or on a sepa Hydrophytic Vego nydric soil and weled or problematic.	rate sheet) etation¹ (Explain)	Ü	esent	Hydro	phytic Vegetat	ion Present? □ Yes ☑ No
Remarks:							
Depth Desc	ription: (Descri Matrix		n neede dox Featu		ument	the indicator or c	onfirm the absence of indicators.)
		1750		Irae			
(in.) Colo	(Moist) %	Color (Moist)	%	Type ¹	Loc ²	Texture	Remarks
0-1 10YR 3	, ,	Color (Moist)			Loc² None	Texture FINE SANDY LOAM	Remarks
, ,	/2 100	Color (Moist)					Remarks
0-1 10YR 3 1-14+ 2.5Y 4,	/2 100 4 100		%	Type ¹	None	FINE SANDY LOAM	
0-1 10YR 3 1-14+ 2.5Y 4,	/2 100 4 100 centration, D=Dep	letion, RM=Redu	% ced Matri	Type ¹	None None overed Sa	FINE SANDY LOAM	

Restrictive Layer Present (if present):			
Туре:	Hydric Soil Present?	□ Yes	✓ No
Type: Depth (inches):	nyunc son Fresent?	□ 162	▼ NO
Remarks:			



SC1AW160A_120613_UPL1W.jpg Photo Name: Note: SC-1A-W160A-UPL1

Project/Site Constitution	Milepost 117.91	City/County:	Schohari	ie Sampling Date: 2013/12/30
Applicant/Owner: Williams		State:	NY	Sampling Point: SC-1A-W459-WET1
Investigator(s): PL, RR	USGS Quad: Schoh	arie	Section	on, Township, Range: Schoharie
Landform: Drainageway		Loc	cal Relief:	✓ Concave ☐ Convex ☐ None Slope (%): 0
Subregion: Middle Atlantic	Latitu	ide: 42.70430)7	Longitude: -74.31104 Datum: NAD 1983
Soil Map Unit Name: Alluvial lan	d			NWI Classification: Not Mapped
Are climatic/hydrologic conditions of	on the site typical for this ti	me of year?	✓ Yes	☐ No (If no, explain in Remarks.)
Are Vegetation Soil or F	lydrology significantly	disturbed?	No	Are "Normal Circumstances" present? ✓ Yes ☐ No
Are Vegetation Soil or H	ydrology naturally pro	oblematic?	No	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDING	S - Attach site map	showing san	npling po	oint locations, transects, important features, etc.
Hydrophytic Vegetation Present?	✓ Yes	Is the Sar	mpled A	roa
Hydric Soil Present?	✓ Yes	within a V		
Wetland Hydrology Present?	✓ Yes No			
Remarks:		1		
Field Wetland Classification: PEI	V I			
HYDROLOGY				
Wetland Hydrology Indicato	rs			
Primary Indicators (minimum of one is i	required; check all that apply)			Secondary Indicators (minimum of two required)
Surface Water (A1)		ed Leaves (B9)		Surface Soil Cracks (B6)
✓ High Water Table (A2)	☐ Aquatic Fau			✓ Drainage Patterns (B10)
Saturation (A3)	☐ Marl Deposi	ulfide Odor (C1)		Moss Trim Lines (B16)
Water Marks (B1)		izospheres on Li	vina Roots (Dry-Season Water Table (C2)
Sediment Deposits (B2)		Reduced Iron (C		Grayiish Burlows (GG)
☐ Drift Deposits (B3) ☐ Algal Mat or Crust (B4)		Reduction in Tille		Saturation Visible on Aerial Imagery (C9)
Iron Deposits (B5)		Surface (C7)	,	Stunted or Stressed Plants (D1)
Inundation Visible on Aerial Image	ry (B7) Other (Expla	ain in Remarks)		Geomorphic Position (D2)
Sparsely Vegetated Concave Surfa				Shallow Aquitard (D3)
	,			Microtopographic Relief (D4)
				FAC-Neutral Test (D5)
				Other (Explain in Remarks)
Field Observations:				
	Yes 🔽 No Depth (i	*		
<u> </u>	_	nches): 2		
Saturation Present:	Yes No Depth (i	nches): 0		Wetland Hydrology Present? ✓ Yes No
Describe Recorded Data (stream	gauge, monitoring well, ae	rial photos, pre	evious insp	pections), if available:
Remarks:				

Tree Stratum				
Plot Size: 30 feet Scientific Name		% Cover	Dominant	Indicator
Ocientine Name		/8 COVE	Dominant	mulcator
	Total Cover:			
Sapling Stratum				
Plot Size: 15 feet				
Scientific Name		% Cover	Dominant	Indicator
Juniperus virginiana		10	YES	FACU
	Total Cover:	10	1	
Shrub Stratum				
Plot Size: 15 feet		1	1	1
Scientific Name		% Cover	Dominant	Indicator
Cornus racemosa		20	YES	FAC
	Total Cover:	20		
Herb Stratum				
Plot Size: 5 feet				
Scientific Name		% Cover	Dominant	Indicator
Typha angustifolia		35	YES	OBL
Onoclea sensibilis		10	NO	FACW
Phalaris arundinacea		20	YES	FACW
	Total Cover:	65		
Vine Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			

Dominance Test Number of Dominant S that are OBL, FACW, or Total Number of Domin Species Across All Strate Percent of Dominant S are OBL, FACW, or FA Hydrophytic Vege 1 - Rapid Test for Hy 2 - Dominance Test 3 - Prevalance is ≤ 3 4 - Morphological Action data in Remarks or Problematic Hydrop ¹Indicators of hydric so unless disturbed or pro	pecies or FAC: nant ata: pecies tha C: etation I ydrophytic is > 50% 3.0 daptations on a sepa hytic Vege bil and wei	3 (A) 4 (B) 4 (B) 75 (A) Indicators: Vegetation 1 (Provide supporrate sheet) etation¹ (Explain) tland hydrology m) /B) ting	esent	Total 9 OBL S FACW FAC S FACU UPL S Column	alence Index 6 Cover of: pecies: Species: pecies: pecies: prevale Prevale	35 x 1 30 x 2 20 x 3 10 x 4 0 x 5 95 (A) ence Index = B/A	= 60 = 60 = 40 = 0 195 = 2.05
		1			cument	the indicator o	r confirm the a	absence of indicators.)
Depth Matrix (in.) Color (Moist)		Color (Moist)	lox Featu %	Type 1	Loc ²	Texture		Remarks
0-8 10YR 2/2	100	Color (moisty	70	1,700	None			Remarks
8-15+ 10YR 4/1						SANDY LOAM		
	95	10YR 4/4	5	С	М	SANDY LOAM		
¹ Type: C=Concentration		,				SANDY LOAM	nd Grains.	² Location: PL=Pore Lining, M=Matrix.
¹ Type: C=Concentratio	on, D=Dep	,				SANDY LOAM		² Location: PL=Pore Lining, M=Matrix. for Problematic Hydric Soils

Restrictive Layer Present (if present):	
Туре:	Hydric Soil Present? ✓ Yes ☐ No
Depth (inches):	Hydric Soil Present? ✓ Yes ☐ No
Remarks:	



SC1AW459_123013_WET1NW.jpg Photo Name: Note: SC-1A-W459-WET1

Project/Site Constitution Milepost 117.91 City/County: 5	Schoharie Sampling Date: 2013/12/30
Applicant/Owner: Williams State: N	NY Sampling Point: SC-1A-W459-UPL1
Investigator(s): PL, RR USGS Quad: Schoharie	Section, Township, Range: Schoharie
Landform: Terrace Local	l 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 $\ \ \ \ \ \ \ \ \ \ \ \ $ 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 samp	oling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? ☐ Yes ✓ No Is the Sam	nled Area
Hydric Soil Present?	-
Wetland Hydrology Present? ☐ Yes ✓ No	
Remarks: Upland Plot	
Field Wetland Classification:	
HYDROLOGY	
Wetland Hydrology Indicators	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1) ☐ High Water Table (A2) ☐ Aquatic Fauna (B13)	Surface Soil Cracks (B6)
	Drainage Patterns (B10)
Saturation (A3) Mari Deposits (B15) Water Marks (B1) Hydrogen Sulfide Odor (C1)	
Sediment Deposits (B2) Oxidized Rhizospheres on Livin	
Drift Deposits (B3) Presence of Reduced Iron (C4)	
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled	
☐ Iron Deposits (B5) ☐ Thick Muck Surface (C7)	Geomorphic Position (D2)
☐ Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks)	Shallow Aquitard (D3)
Sparsely Vegetated Concave Surface (B8)	Microtopographic Relief (D4)
	FAC-Neutral Test (D5)
	Other (Explain in Remarks)
Field Observations:	
Surface Water Present: Yes ✓ No Depth (inches):	
Water Table Present:	
Saturation Present: Yes V No Depth (inches):	Wetland Hydrology Present? ☐ Yes ✔ No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previ	ous inspections), if available:
Remarks:	. ,
iveniairo.	

Tree Stratum				
Plot Size: 30 feet Scientific Name		% Cover	Dominant	Indicator
Acer saccharum		15	YES	FACU
	Total Cover:	15	I	
Sapling Stratum				
Plot Size: 15 feet Scientific Name		% Cover	Dominant	Indicator
Acer saccharum		5	YES	FACU
	Total Cover:	5		
Shrub Stratum				
Plot Size: 15 feet		T	1	1
Scientific Name		% Cover	Dominant	Indicator
Lonicera sp		5	YES	NONE
	Total Cover:	5		
Herb Stratum				
Plot Size: 5 feet Scientific Name		% Cover	Dominant	Indicator
Solidago canadensis		60	YES	FACU
	Total Cover:	120		÷
Vine Stratum				
Plot Size: 30 feet Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			

Number that are Total Ni Species Percent are OBI	nance Test Wo of Dominant Spec OBL, FACW, or F umber of Dominant Across All Strata: of Dominant Spec _, FACW, or FAC:	cies FAC: ht : cies tha	0 (A) 5 (B) 0 (A/)		Total 9 OBL S FACW FAC S FACU UPL S	% Cover of: Species: / Species: Species: Species: species: species: species:	ndex Worl	0 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Mul < 1 = < 2 = < 3 = < 4 = < 5 = (A)	tiply by:	0 0 0 320 0 320 4.00	(B)
1 - R 2 - D 3 - P 4 - N data Prob Indica unless	apid Test for Hydrominance Test is revalance is ≤ 3.0 lorphological Adapin Remarks or on lematic Hydrophyttors of hydric soil adisturbed or proble	ophytic > 50% otations ¹ a separ tic Vege and wet	Vegetation (Provide suppor ate sheet) tation¹ (Explain)	J	resent	Hydro	ophytic \	Vegetation	n Prese	ent?	□ Y	es ⊻I	No
Remarks	3:												
SOIL													
	Description: ([Descrit	pe to the deptl	h neede	d to do	cument	the indica	ator or con	firm th	e abse	ence of	indicato	rs.)
	Description: (E	Descrik	-	h neede lox Feati		cument	the indica	ator or con	firm th	e abse	nce of	indicato	rs.)
Profile		Descrik %	-			cument		ator or con	firm th	e abse		indicato marks	rs.)
Profile Depth	Matrix		Red	lox Feat	ures			exture			Rei		·
Profile Depth (in.) 0-20"+	Matrix Color (Moist)	%	Red Color (Moist)	dox Featu %	Type ¹	Loc ² None	Te	exture DY LOAM	5-6' in	Elevatio	Re i on higher	marks than wetla	·
Profile Depth (in.) 0-20"+	Matrix Color (Moist) 10YR 2/2	% 100 D=Dep	Red Color (Moist)	dox Featu %	Type ¹	Loc ² None	Te	exture DY LOAM ted Sand Gra	5-6' in	Elevatio	Ren on higher cation: Pl	marks than wetla L=Pore Li	nd
Profile Depth (in.) 0-20"+ 1 Type: Hydrid Hist Hist Hyc Stra Dep Thic Sar Sar Sar	Matrix Color (Moist) 10YR 2/2 C=Concentration,	% 100 D=Depl s:	etion, RM=Redu Poly Thir Loai Loa Dep Red Dep Red Othe	ced Matri walue Belo n Dark Suri my Mucky my Gleyed bleted Matri lox Dark S bleted Dark lox Depres	Type 1 Type 1	Loc² None overed Sa e (S8) (LRR LRR R, ML (1) (LRR K,	FINE SAND and or Coat R, MLRA 14 RA 149B)	exture DY LOAM ted Sand Gra	5-6' in 5-6' in 5-6' in 2 cm M Coast: 5 cm M Dark S Polyval Iron-Ma Piedmo Mesic S Red Pa Very Sl	² Loc rs for I luck (A10 Prairie R lucky Pea urface (S ue Below ark Surfa anganese ont Flood Spodic (T arent Mat hallow Da	Reform higher faction: Plantion: Plantion: Plantion: Plantion: Plantion: Plantion: Problem (A) (LRR Kedox (A1)	marks than wetla L=Pore Li matic Hy , L, MLRA 7 6) (LRR K, (S3) (LRR K, L, M) (S8) (LRR LRR K, L) (F12) (LRR s (F19) (ML RA 144A, 14) the (TF12)	ning, M=Matrix. dric Soils 49B) -, R) K, L, R) K, L, R) K, L, R) RA 149B)

Restrictive Layer Present (if present):				
Type:		Hydria Sail Brasant?	☐ Yes	✓ No
Depth (inches):		Hydric Soil Present?	□ 162	▼ NO
Remarks:				
Potential old fill				



SC1AW459_123013_UPL1N.jpg Photo Name: Note: SC-1A-W459-UPL1

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: Charle	otteville	Section,	Township, Range:Jefferson
Landform: Floodplain		Lo	cal Relief:	Concave Convex None Slope (%): 1
Subregion: Middle Atlantic	Latitu	ude: 42.53740	09 Lo	ongitude: -74.63937 Datum: NAD 1983
Soil Map Unit Name: Chippewa	and Norwich very stony so	oils, 0 to 15 per	cent slopes	NWI Classification: Not mapped
Are climatic/hydrologic conditions of	n the site typical for this ti	ime of year?	✓ Yes	☐ No (If no, explain in Remarks.)
Are Vegetation Soil or H	ydrology significantly	disturbed?	No	Are "Normal Circumstances" present? ✓ Yes ☐ No
Are Vegetation Soil or Hy	ydrology naturally pro	oblematic?	No (If	needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS	S - Attach site map	showing sar	npling poin	nt locations, transects, important features, etc.
Hydrophytic Vegetation Present?	✓ Yes			
Hydric Soil Present?	✓ Yes No	within a	mpled Area Wetland?	a ☑ Yes □ No
Wetland Hydrology Present?	✓ Yes No	Within a	rectana:	
Remarks:		JI.		
Field Wetland Classification: PFC)			
HYDROLOGY				
Wetland Hydrology Indicator	rs			
Primary Indicators (minimum of one is r	equired; check all that apply)			Secondary Indicators (minimum of two required)
Surface Water (A1)		ed Leaves (B9)		Surface Soil Cracks (B6)
High Water Table (A2)	Aquatic Fau			✓ Drainage Patterns (B10)
Saturation (A3)	Marl Deposi			Moss Trim Lines (B16)
Water Marks (B1)		sulfide Odor (C1) nizospheres on Li	vina Booto (C2)	Dry-Season Water Table (C2)
Sediment Deposits (B2)		f Reduced Iron (C		Orayiish Barrows (00)
Drift Deposits (B3)		Reduction in Till	•	Saturation Visible on Aerial Imagery (C9)
☐ Algal Mat or Crust (B4)☐ Iron Deposits (B5)		Surface (C7)	ou ooo (oo)	Stunted or Stressed Plants (D1)
Inundation Visible on Aerial Imager		ain in Remarks)		Geomorphic Position (D2)
Sparsely Vegetated Concave Surfa	, (5.)	u		Shallow Aquitard (D3)
Operacity regulated conserve curre	(DO)			Microtopographic Relief (D4)
				FAC-Neutral Test (D5)
				Other (Explain in Remarks)
Field Observations:				
	Yes V No Depth (i	*		
	Yes V No Depth (i			
Saturation Present:	Yes No Depth (i	inches): 0		Wetland Hydrology Present? ✓ Yes ☐ No
Describe Recorded Data (stream g	gauge, monitoring well, ae	erial photos, pre	evious inspect	tions), if available:
Remarks:				

, LOLIATION			
Tree Stratum			
Plot Size: 30 feet			
Scientific Name	% Cover	Dominant	Indicator
Tsuga canadensis	30	YES	FAC
Betula alleghaniensis	30	YES	FAC
Acer rubrum	10	NO	FAC
Total Cover:	70		
Sapling Stratum			
Plot Size: 15 feet			
Scientific Name	% Cover	Dominant	Indicator
Tsuga canadensis	5	YES	FAC
Total Cover:	5		
Shrub Stratum			
Plot Size: 15 feet		1	
Scientific Name	% Cover	Dominant	Indicator
Total Cover:			
Herb Stratum			
Plot Size: 5 feet			
Scientific Name	% Cover	Dominant	Indicator
Veratrum virginicum	5	NO	FACW
Tussilago farfara	10	YES	FACU
Thelypteris palustris	20	YES	FACW
Impatiens capensis	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	:	Prevalence Index Total % Cover of:	(Workshe		tiply by:	
that are OBL, FACW, or FAC:	5 (A)	OBL Species:	0	x 1 =	0	_
Total Number of Dominant Species Across All Strata:	6 (B)	FACW Species:	35	x 2 =	70	_
Percent of Dominant Species that	(=)	FAC Species:	75	x 3 =	225	_
are OBL, FACW, or FAC:	83 (A/B)	FACU Species:	10	x 4 =	40	=
		UPL Species:	0	x 5 =	0	_
		Column Totals:	120	(A)	335	_ (B)
		Preva	alence Index :	= B/A =	2.79	=
Hydrophytic Vegetation Ind 1 - Rapid Test for Hydrophytic Ve						
✓ 2 - Dominance Test is > 50% ✓ 3 - Prevalance is ≤ 3.0	rovide supporting sheet) on¹ (Explain)	Hydrophytic Veg	etation Pre	esent?	✓ Yes □	No

SOIL

Depth	Matrix		Rede	ox Feat	ures			
(in.)	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²	Texture	Remarks
0-2	10YR 3/2	97	10YR 3/6	3	С	М	SANDY LOAM	
2-14	10YR 4/2	95	10YR 4/6	5	С	М	SANDY LOAM	
14-20	5Y 4/1	93	10YR 4/6	7	С	М	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:		Indicators for Problematic Hydric Soils
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)	Polyvalue Below Surface (S8) (LRR R, MLRA 14 ☐ Thin Dark Surface (S9) (LRR R, MLRA 149B) ☐ Loamy Mucky Mineral (F1) (LRR K, L) ☐ Loamy Gleyed Matrix (F2) ☑ Depleted Matrix (F3) ☐ Redox Dark Surface (F6) ☐ Depleted Dark Surface (F7) ☐ Redox Depressions (F8) ☐ Other (Explain in Remarks)	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)
Restrictive Layer Present (if pr	esent):	
Type:		Hudria Cail Brasanto - M Vaa Na
Depth (inches):		Hydric Soil Present? ✓ Yes ☐ No
Photos		
Photo Name: SC1AW460_0416	14 WET1NW ing Note:	SC-1A-W460-WFT1

Project/Site Constitution	Milepost 97.75781	City/County: Schoha	rie Sampling Date: 2014/05/08
Applicant/Owner: Williams		State: NY	Sampling Point: SC-1A-W460-WET2
Investigator(s): RR;KH	USGS Quad: Charle	tteville Sec	tion, Township, Range: Jefferson
Landform: Drainageway		Local Relief	T: ✓ Concave ☐ Convex ☐ None Slope (%): 3
Subregion: Middle Atlantic	Latitu	de: 42.537012	Longitude: -74.63976 Datum: NAD 1983
Soil Map Unit Name: Chippewa	and Norwich very stony so	ils, 0 to 15 percent slop	es NWI Classification: Not mapped
Are climatic/hydrologic conditions of	on the site typical for this ti	me of year? 🗸 Yes	☐ No (If no, explain in Remarks.)
Are Vegetation Soil or H	lydrology significantly	disturbed? V No	Are "Normal Circumstances" present? ✓ Yes No
Are Vegetation Soil or H	ydrology naturally pro	blematic? 🗸 No	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDING	S - Attach site map	showing sampling	point locations, transects, important features, etc.
Hydrophytic Vegetation Present?	✓ Yes No		
Hydric Soil Present?	✓ Yes No	Is the Sampled within a Wetlan	
Wetland Hydrology Present?	✓ Yes	within a wetian	ur — 133 — 135
Remarks:		<u> </u>	
Field Wetland Classification: PEI	И		
HYDROLOGY			
Wetland Hydrology Indicato	rs		
Primary Indicators (minimum of one is a Surface Water (A1) I High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Image Sparsely Vegetated Concave Surface	Water Staind Aquatic Fau Marl Deposi Hydrogen Si ✓ Oxidized Rh Presence of Recent Iron Thick Muck Ty (B7) Water Staind Aquatic Fau Aquatic Fau Request Pau Other (Explaind)		Saturation Visible on Aerial Imagery (C9)
Surface Water Present: Water Table Present: ✓	Yes No Depth (i	nches): 10 nches): 0	Wetland Hydrology Present? ✓ Yes ☐ No
Remarks:	,		,

		% Cover	Dominant	Indicator
	Total Cover:			
		% Cover	Dominant	Indicator
	Total Cover:			
		ı	i	1
		% Cover	Dominant	Indicator
	Total Cover:			
		% Cover	Dominant	Indicator
		25	YES	OBL
		30	YES	FAC
		5	NO	FAC
		5	NO	FAC
	Total Cover:	65		
		% Cover	Dominant	Indicator
	Total Cover:			
t	t	Total Cover: Total Cover: Total Cover:	Total Cover: "	% Cover Dominant

Number	nance Test W	ecies					alence Index W % Cover of:	orkshee		tiply by:	
	OBL, FACW, or		2 (A)		OBL S	pecies:	25	x 1 =	25	•
	umber of Domina Across All Strata		2 (B	`			Species:	0	x 2 =	0	
	t of Dominant Spe			,		FAC S	pecies:	40	x 3 =	120	
	L, FACW, or FAC		100 (A	/B)		FACU	Species:	0	x 4 =	0	
	, - ,					UPL S	pecies:	0	x 5 =	0	
						Colum	n Totals:	65	(A)	145	(B)
							Prevalen	ce Index =	B/A =	2.23	
Hydro	phytic Veget	ation I	ndicators:								
☐ 1 - R	apid Test for Hyd	Irophytic	Vegetation								
	ominance Test is					Hydro	ophytic Vegeta	tion Pre	sent?	✓ Yes □	No
✓ 3 - P	revalance is ≤ 3.0)									
	orphological Ada in Remarks or or			rting							
	lematic Hydrophy										
	tors of hydric soil disturbed or prob		land hydrology n	nust be pr	esent						
Remark	s:										
SOIL											
	Description: ((Descri	be to the dept	h neede	d to do	cument	the indicator or	confirm t	the abse	ence of indicate	ors.)
	Description: ((Descri	1	h neede dox Featu		cument	the indicator or	confirm t	the abse	ence of indicate	ors.)
Profile	1	(Descri	1			cument Loc ²	the indicator or Texture	confirm t	the abse	ence of indicate	ors.)
Profile Depth (in.)	Matrix Color (Moist)	%	Red Color (Moist)	dox Featu %	Type 1	Loc ²	Texture	confirm t	he abse		ors.)
Profile Depth	Matrix	-	Red	dox Featu	ıres	Т		confirm t	he abse		ors.)
Profile Depth (in.)	Matrix Color (Moist) 2.5Y 4/2	% 95	Rec Color (Moist) 10YR 4/6	dox Featu % 5	Type ¹	Loc²	Texture FINE SANDY LOAM	confirm t	the abse		ors.)
Profile Depth (in.)	Matrix Color (Moist)	%	Red Color (Moist)	dox Featu %	Type 1	Loc ²	Texture	confirm t	the abse		ors.)
Profile Depth (in.)	Matrix Color (Moist) 2.5Y 4/2	% 95	Rec Color (Moist) 10YR 4/6	dox Featu % 5	Type ¹	Loc²	Texture FINE SANDY LOAM	confirm t	the abse		ors.)
Profile Depth (in.) 0-4 4-18	Matrix Color (Moist) 2.5Y 4/2 Gley1 6/10Y	% 95 80	Rec Color (Moist) 10YR 4/6 2.5Y 4/4	5 20	Type ¹ C	Loc² PL	Texture FINE SANDY LOAM FINE SANDY LOAM			Remarks	
Profile Depth (in.) 0-4 4-18	Matrix Color (Moist) 2.5Y 4/2 Gley1 6/10Y C=Concentration	% 95 80 , D=Dep	Rec Color (Moist) 10YR 4/6 2.5Y 4/4	5 20	Type ¹ C	Loc² PL	Texture FINE SANDY LOAM	I Grains.	² Loc	Remarks cation: PL=Pore L	ining, M=Matrix.
Profile Depth (in.) 0-4 4-18	Matrix Color (Moist) 2.5Y 4/2 Gley1 6/10Y C=Concentration C Soil Indicator	% 95 80 , D=Dep	Rec Color (Moist) 10YR 4/6 2.5Y 4/4 letion, RM=Redu	5 20 ced Matri	Type 1 C C c xx, CS=Ce	PL PL overed Sa	Texture FINE SANDY LOAM FINE SANDY LOAM and or Coated Sand	l Grains.	² Loc	Remarks ation: PL=Pore L Problematic Hy	ining, M=Matrix.
Profile Depth (in.) 0-4 4-18 1 Type: Hydric His	Matrix Color (Moist) 2.5Y 4/2 Gley1 6/10Y C=Concentration C Soil Indicator tosol (A1)	% 95 80 , D=Dep	Rec Color (Moist) 10YR 4/6 2.5Y 4/4 letion, RM=Redu	5 20 aced Matri	Type 1 C C C x, CS=Co	PL PL overed Sa	Texture FINE SANDY LOAM FINE SANDY LOAM and or Coated Sand	I Grains. Indicat	² Loc cors for F	Remarks sation: PL=Pore L Problematic Hy	ining, M=Matrix. vdric Soils 149B)
Profile Depth (in.) 0-4 4-18 1 Type: Hydrid His	Matrix Color (Moist) 2.5Y 4/2 Gley1 6/10Y C=Concentration c Soil Indicator tosol (A1) tic Epipedon (A2)	% 95 80 , D=Dep	Rec Color (Moist) 10YR 4/6 2.5Y 4/4 letion, RM=Redu	5 20 sced Matri	Type 1 C C x, CS=Co	PL PL overed Sa	Texture FINE SANDY LOAM FINE SANDY LOAM and or Coated Sance R, MLRA 149B) RA 149B)	I Grains. Indicat 2 cm Coas	² Loc cors for F Muck (A10 st: Prairie R	Remarks Fation: PL=Pore L Problematic Hy O) (LRR K, L, MLRA Redox (A16) (LRR K,	ining, M=Matrix. vdric Soils 149B) L, R)
Profile Depth (in.) 0-4 4-18 1 Type: Hydrid Hist Hist Bla	Matrix Color (Moist) 2.5Y 4/2 Gley1 6/10Y C=Concentration c Soil Indicator tosol (A1) tic Epipedon (A2) ck Histic (A3)	% 95 80 , D=Dep	Rec Color (Moist) 10YR 4/6 2.5Y 4/4 Letion, RM=Redu Poly Thin Loa	5 20 ced Matri	Type 1 C C C x, CS=Co w Surface face (S9) (i Mineral (F	PL PL overed Sa (S8) (LRR LRR R, ML 1) (LRR K,	Texture FINE SANDY LOAM FINE SANDY LOAM and or Coated Sance R, MLRA 149B) RA 149B)	I Grains. Indicat 2 cm Coas 5 cm	² Loc cors for F Muck (A10 st: Prairie R Mucky Pea	Remarks Problematic Hy () (LRR K, L, MLRA Ledox (A16) (LRR K, at or Peat (S3) (LRR	ining, M=Matrix. vdric Soils 149B) L, R)
Profile Depth (in.) 0-4 4-18 1 Type: Hydrid Hist Hist Hist Hist Hist	Matrix Color (Moist) 2.5Y 4/2 Gley1 6/10Y C=Concentration c Soil Indicator tosol (A1) tic Epipedon (A2) ck Histic (A3) drogen Sulfide (A4)	% 95 80 , D=Dep	Rec Color (Moist) 10YR 4/6 2.5Y 4/4 letion, RM=Redu Poli Thii Loa Loa	yvalue Belden Dark Surlumy Mucky	Type 1 C C C Ex, CS=Co Sw Surface Face (S9) (I Mineral (F) Matrix (F2)	PL PL overed Sa (S8) (LRR LRR R, ML 1) (LRR K,	Texture FINE SANDY LOAM FINE SANDY LOAM and or Coated Sance R, MLRA 149B) RA 149B)	I Grains. Indicat 2 cm Coas 5 cm Dark	² Loc cors for F Muck (A10 st: Prairie R Mucky Pea Surface (S	Remarks Problematic Hy O) (LRR K, L, MLRA Redox (A16) (LRR K, at or Peat (S3) (LRR F(7) (LRR K, L, M)	ining, M=Matrix.
Profile Depth (in.) 0-4 4-18 1 Type: Hydric His His His Hyd Stra	Matrix Color (Moist) 2.5Y 4/2 Gley1 6/10Y C=Concentration C Soil Indicator tosol (A1) tic Epipedon (A2) ck Histic (A3) drogen Sulfide (A4) atified Layers (A5)	% 95 80 , D=Dep	Rec Color (Moist) 10YR 4/6 2.5Y 4/4 letion, RM=Redu Pol: Thii Loa V Dep	5 20 ced Matri	Type 1 C C C C Ex, CS=Co Ow Surface face (S9) (i Mineral (F Matrix (F2 ix (F3)	PL PL PL Overed Sa (S8) (LRR LRR R, ML 1) (LRR K,	Texture FINE SANDY LOAM FINE SANDY LOAM and or Coated Sance R, MLRA 149B) RA 149B)	I Grains. Indicat 2 cm Coas 5 cm Dark Polyv	² Loc Fors for F Muck (A10 st: Prairie R Mucky Pea Surface (S value Below	Remarks Fation: PL=Pore L Problematic Hy O) (LRR K, L, MLRA Ledox (A16) (LRR K, at or Peat (S3) (LRR S7) (LRR K, L, M) v Surface (S8) (LRR	ining, M=Matrix.
Profile Depth (in.) 0-4 4-18 1 Type: Hydric His His His Hyd Stra	Matrix Color (Moist) 2.5Y 4/2 Gley1 6/10Y C=Concentration C Soil Indicator tosol (A1) tic Epipedon (A2) ck Histic (A3) drogen Sulfide (A4) atified Layers (A5) bleted Below Dark S	% 95 80 , D=Deprrs:	Rec Color (Moist) 10YR 4/6 2.5Y 4/4 letion, RM=Redu Pol: Thir Loa Loa V Dep 11)	yvalue Belom Dark Surlimy Mucky	Type 1 C C C Ex, CS=Ce ow Surface face (S9) (I Mineral (F Matrix (F2 ix (F3) urface (F6)	PL PL Overed Sa (S8) (LRR LRR R, ML 1) (LRR K,	Texture FINE SANDY LOAM FINE SANDY LOAM and or Coated Sance R, MLRA 149B) RA 149B)	I Grains. Indicat 2 cm Coas 5 cm Dark Poly	² Loc cors for F Muck (A10 st: Prairie R Mucky Pea Surface (S value Below Dark Surfa	Remarks cation: PL=Pore L Problematic Hy O) (LRR K, L, MLRA Ledox (A16) (LRR K, at or Peat (S3) (LRR O) (LRR K, L, M) V Surface (S8) (LRR LCC (S9) (LRR K, L)	ining, M=Matrix.
Profile Depth (in.) 0-4 4-18 Type: Hydrid His His Bla Hyd Stra Dep	Matrix Color (Moist) 2.5Y 4/2 Gley1 6/10Y C=Concentration c Soil Indicator tosol (A1) tic Epipedon (A2) ck Histic (A3) drogen Sulfide (A4) atified Layers (A5) oleted Below Dark S ck Dark Surface (A1	% 95 80 , D=Dep rs:	Rec Color (Moist) 10YR 4/6 2.5Y 4/4 letion, RM=Redu Pol: Thii Loa V Dep 11) Rec Dep	yvalue Beldin Dark Surfigury Mucky	Type 1 C C C Exx, CS=Ce Exx Surface Face (S9) (I Mineral (F2 IX (F3) Urface (F6) Surface (F6)	Loc² PL PL Overed Sa (S8) (LRR LRR R, ML 1) (LRR K, 2)	Texture FINE SANDY LOAM FINE SANDY LOAM and or Coated Sance R, MLRA 149B) RA 149B)	I Grains. Indicat 2 cm Coas 5 cm Dark Polyu Thin	² Loc cors for F Muck (A10 st: Prairie R Mucky Pea Surface (S value Below Dark Surfa Manganese	Remarks Problematic Hy () (LRR K, L, MLRA () (LRR K, L, M) () (LRR K, L, M) () (LRR K, L, M) () (LRR K, L, M) () (LRR K, L, M) () (LRR K, L, M) () (LRR K, L, M) () (LRR K, L)	ining, M=Matrix. /dric Soils 149B) L, R) K, L, R) K, L, R)
Profile Depth (in.) 0-4 4-18 Type: Hydrid Hist Hist Bla Hyc Stra Dep Thid	Matrix Color (Moist) 2.5Y 4/2 Gley1 6/10Y C=Concentration c Soil Indicator tosol (A1) tic Epipedon (A2) ck Histic (A3) drogen Sulfide (A4) atified Layers (A5) bleted Below Dark S ck Dark Surface (A1 ddy Mucky Mineral (8	% 95 80 , D=Dep rs: urface (A' 2) S1)	Red Color (Moist) 10YR 4/6 2.5Y 4/4 letion, RM=Redu	yvalue Beldin Dark Suring Mucky Imy Gleyed Matridox Dark Soleted Dark	Type 1 C C C X, CS=Co W Surface Face (S9) (i Mineral (F Matrix (F2 ix (F3) urface (F6) Surface (F8)	PL PL Overed Sa (S8) (LRR LRR R, ML 1) (LRR K, 2) (S8) (LRR K)	Texture FINE SANDY LOAM FINE SANDY LOAM and or Coated Sance R, MLRA 149B) RA 149B)	I Grains. Indicat 2 cm Coas 5 cm Dark Polyu Thin	² Loc cors for F Muck (A10 st: Prairie R Mucky Pea Surface (S value Below Dark Surfa Manganese	Remarks cation: PL=Pore L Problematic Hy O) (LRR K, L, MLRA Ledox (A16) (LRR K, at or Peat (S3) (LRR O) (LRR K, L, M) V Surface (S8) (LRR LCC (S9) (LRR K, L)	ining, M=Matrix. /dric Soils 149B) L, R) K, L, R) K, L, R)
Profile Depth (in.) 0-4 4-18 Type: Hydrid His His Hydrid Stra Dep Thid Sar Sar	Matrix Color (Moist) 2.5Y 4/2 Gley1 6/10Y C=Concentration c Soil Indicator tosol (A1) tic Epipedon (A2) ck Histic (A3) drogen Sulfide (A4) atified Layers (A5) bleted Below Dark S ck Dark Surface (A1 ndy Mucky Mineral (S ndy Gleyed Matrix (S)	% 95 80 , D=Dep rs: urface (A' 2) S1)	Red Color (Moist) 10YR 4/6 2.5Y 4/4 letion, RM=Redu	yvalue Belom Dark Surfuced Matri	Type 1 C C C X, CS=Co W Surface Face (S9) (i Mineral (F Matrix (F2 ix (F3) urface (F6) Surface (F8)	PL PL Overed Sa (S8) (LRR LRR R, ML 1) (LRR K, 2) (S8) (LRR K)	Texture FINE SANDY LOAM FINE SANDY LOAM and or Coated Sance R, MLRA 149B) RA 149B)	I Grains. Indicat 2 cm Coas 5 cm Dark Poly Thin Iron-	² Loc cors for F Muck (A10 st: Prairie R Mucky Pea Surface (S value Below Dark Surfa Manganese mont Flood	Remarks Problematic Hy () (LRR K, L, MLRA () (LRR K, L, M) () (LRR K, L, M) () (LRR K, L, M) () (LRR K, L, M) () (LRR K, L, M) () (LRR K, L, M) () (LRR K, L, M) () (LRR K, L)	ining, M=Matrix. /dric Soils 149B) L, R) K, L, R) K, L, R) R K, L, R) LRA 149B)
Profile Depth (in.) 0-4 4-18 Type: Hydrid Hist Hist Hist Strat Dep Thid Sar Sar	Matrix Color (Moist) 2.5Y 4/2 Gley1 6/10Y C=Concentration c Soil Indicator tosol (A1) tic Epipedon (A2) ck Histic (A3) drogen Sulfide (A4) atified Layers (A5) bleted Below Dark S ck Dark Surface (A1 andy Mucky Mineral (S) andy Gleyed Matrix (S) andy Redox (S5)	% 95 80 , D=Dep rs: urface (A' 2) S1)	Red Color (Moist) 10YR 4/6 2.5Y 4/4 letion, RM=Redu	yvalue Belom Dark Surfuced Matri	Type 1 C C C X, CS=Co W Surface Face (S9) (i Mineral (F Matrix (F2 ix (F3) urface (F6) Surface (F8)	PL PL Overed Sa (S8) (LRR LRR R, ML 1) (LRR K, 2) (S8) (LRR K)	Texture FINE SANDY LOAM FINE SANDY LOAM and or Coated Sance R, MLRA 149B) RA 149B)	I Grains. Indicat 2 cm Coas 5 cm Dark Poly Thin Iron- Pied	² Loc cors for F Muck (A10 st: Prairie R Mucky Pea Surface (S value Below Dark Surfa Manganese mont Flood	Remarks Fation: PL=Pore L Problematic Hy O) (LRR K, L, MLRA Ledox (A16) (LRR K, at or Peat (S3) (LRR S7) (LRR K, L, M) v Surface (S8) (LRR ICC (S9) (LRR K, L) E Masses (F12) (LRF plain Soils (F19) (M	ining, M=Matrix. /dric Soils 149B) L, R) K, L, R) K, L, R) R K, L, R) LRA 149B)
Profile Depth (in.) 0-4 4-18 Type: Hydrid Hist Hydrid Stra Dep Thid Sar Sar Stri	Matrix Color (Moist) 2.5Y 4/2 Gley1 6/10Y C=Concentration C Soil Indicator tosol (A1) tic Epipedon (A2) ck Histic (A3) drogen Sulfide (A4) atified Layers (A5) oleted Below Dark S ck Dark Surface (A1 ady Mucky Mineral (S ady Gleyed Matrix (S ady Redox (S5) pped Matrix (S6)	% 95 80 , D=Dep rs: urface (A ⁻ 2) S1)	Rec Color (Moist) 10YR 4/6 2.5Y 4/4 letion, RM=Redu Pol: Thin Loa Loa V Dep Rec Dep Rec Oth	yvalue Belom Dark Surfuced Matri	Type 1 C C C X, CS=Co W Surface Face (S9) (i Mineral (F Matrix (F2 ix (F3) urface (F6) Surface (F8)	PL PL Overed Sa (S8) (LRR LRR R, ML 1) (LRR K, 2) (S8) (LRR K)	Texture FINE SANDY LOAM FINE SANDY LOAM and or Coated Sance R, MLRA 149B) RA 149B)	Grains. Indicat 2 cm Coas 5 cm Dark Poly Thin Iron- Pied Mesi Red	² Loc cors for F Muck (A10 st: Prairie R Mucky Pea Surface (S value Below Dark Surfa Manganese mont Flood c Spodic (T Parent Mate	Remarks Fation: PL=Pore L Problematic Hy O) (LRR K, L, MLRA Ledox (A16) (LRR K, at or Peat (S3) (LRR S7) (LRR K, L, M) v Surface (S8) (LRR ICC (S9) (LRR K, L) E Masses (F12) (LRF plain Soils (F19) (M	ining, M=Matrix. /dric Soils 149B) L, R) K, L, R) K, L, R) R K, L, R) LRA 149B)
Profile Depth (in.) 0-4 4-18 Type: Hydrid Hist Hydrid Stra Dep Thid Sar Sar Stri	Matrix Color (Moist) 2.5Y 4/2 Gley1 6/10Y C=Concentration c Soil Indicator tosol (A1) tic Epipedon (A2) ck Histic (A3) drogen Sulfide (A4) atified Layers (A5) bleted Below Dark S ck Dark Surface (A1 andy Mucky Mineral (S) andy Gleyed Matrix (S) andy Redox (S5)	% 95 80 , D=Dep rs: urface (A ⁻ 2) S1)	Rec Color (Moist) 10YR 4/6 2.5Y 4/4 letion, RM=Redu Pol: Thin Loa Loa V Dep Rec Dep Rec Oth	yvalue Belom Dark Surfuced Matri	Type 1 C C C X, CS=Co W Surface Face (S9) (i Mineral (F Matrix (F2 ix (F3) urface (F6) Surface (F8)	PL PL Overed Sa (S8) (LRR LRR R, ML 1) (LRR K, 2) (S8) (LRR K)	Texture FINE SANDY LOAM FINE SANDY LOAM and or Coated Sance R, MLRA 149B) RA 149B)	Grains. Indicat 2 cm Coas 5 cm Dark Poly Thin Iron- Pied Mesi Red Very	² Loc cors for F Muck (A10 st: Prairie R Mucky Pea Surface (S value Below Dark Surfa Manganese mont Flood c Spodic (T Parent Mate Shallow Da	Remarks Problematic Hy (Compared to the compared to the compa	ining, M=Matrix. /dric Soils 149B) L, R) K, L, R) K, L, R) R K, L, R) LRA 149B)

Restrictive Layer Present (if present):	
Туре:	Hydric Soil Present? ✓ Yes ☐ No
Depth (inches):	Hydric Son Fresent:
Remarks:	



SC1AW460_050814_WET2N.jpg Photo Name: Note: SC-1A-W460-WET2

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 Lo	ongitude: -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 r	needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sampling point	t locations, transects, important features, etc.
Hydrophytic Vegetation Present? ☐ Yes ✓ No	2
Hydric Soil Present?	□ Yes ☑ No
Wetland Hydrology Present? ☐ Yes ✓ No	
Remarks: Upland plot	
Field Wetland Classification:	
HYDROLOGY	
Wetland Hydrology Indicators	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1)	Surface Soil Cracks (B6)
Made (145)	☐ Drainage Patterns (B10) ☐ Moss Trim Lines (B16)
Saturation (A3) Water Marks (B1) Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3)	
Drift Deposits (B3) Presence of Reduced Iron (C4)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6)	Stunted or Stressed Plants (D1)
☐ Iron Deposits (B5) ☐ Thick Muck Surface (C7)	Geomorphic Position (D2)
☐ Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks)	Shallow Aquitard (D3)
Sparsely Vegetated Concave Surface (B8)	Microtopographic Relief (D4)
	FAC-Neutral Test (D5)
	Other (Explain in Remarks)
Field Observations: Surface Water Present:	
Surface Water Present:	
Saturation Present: Yes V No Depth (inches):	Wetland Hydrology Present? ☐ Yes ✓ No
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspecti	ions), ii avallable.
Remarks:	

· - · - · · · · · · · · · · · · · · · ·				
Tree Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
Malus sp		5	NO	UPL
Picea sp		20	YES	FACU
Tsuga canadensis		20	YES	FACU
Acer rubrum		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
Erythronium americanum		20	YES	FACU
	Total Cover:	20	1	
Vine Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:	1		

that are Total Ni Species Percent are OBI	rance Test Wo of Dominant Spec OBL, FACW, or F umber of Dominant Across All Strata: of Dominant Spec phytic Vegeta	cies FAC: t : : cies that	0 (A) 3 (B) 0 (A/)		Total 9 OBL S FACW FAC S FACU UPL S	alence Index W 6 Cover of: pecies: Species: pecies: pecies: n Totals: Prevalence		0 0 0 15 240 25 280 4.00
 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is > 50% 3 - Prevalance is ≤ 3.0 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic. 					esent	Hydro	ophytic Vegeta	ion Present?	☐ Yes 🗹 No
Remark	5:								
SOIL Profile	Description: (E	Descrik	pe to the depti	n neede	d to doc	cument	the indicator or o	confirm the abs	ence of indicators.)
	Description: (D	Descrik	-	n neede		cument	the indicator or o	confirm the abs	ence of indicators.)
Profile		Descrik %	-			Loc ²	the indicator or o	confirm the abs	ence of indicators.) Remarks
Profile Depth	Matrix		Red	lox Featu	ires	T		confirm the abs	•
Profile Depth (in.)	Matrix Color (Moist)	%	Red	lox Featu	ires	T	Texture	confirm the abs	•
Profile Depth (in.) 0-2	Matrix Color (Moist) 2.5Y 3/3 2.5Y 4/4	% 100 100	Red Color (Moist)	lox Featu %	Type ¹	Loc ²	Texture LOAM		•
Profile Depth (in.) 0-2 2-12	Matrix Color (Moist) 2.5Y 3/3 2.5Y 4/4	% 100 100 D=Depl	Red Color (Moist)	lox Featu %	Type ¹	Loc ²	Texture LOAM LOAM	Grains. ² Lo	Remarks

Restrictive Layer Present (if present):	
Туре:	Hydric Soil Present? ☐ Yes ☑ No
Depth (inches):	Hydric 3011 Fresent:
Remarks:	,

Photos



SC1AW460_050814_UPL1E.jpg Photo Name: Note: SC-1A-W460-UPL1

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 Lo	ongitude: -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 r	needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sampling point	t locations, transects, important features, etc.
Hydrophytic Vegetation Present?	a
Hydric Soil Present? Yes No within a Wetland?	✓ Yes □ No
Wetland Hydrology Present?	
Remarks:	
Field Wetland Classification: PSS	
HYDROLOGY	
Wetland Hydrology Indicators	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1) Water Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2) ✓ Saturation (A3) ✓ Marl Deposits (B15)	✓ Drainage Patterns (B10)
	Moss Trim Lines (B16)
Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2)	Dry-Season Water Table (C2) Crayfish Burrows (C8)
Drift Deposits (B3) Presence of Reduced Iron (C4)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6)	Stunted or Stressed Plants (D1)
☐ Iron Deposits (B5) ☐ Thick Muck Surface (C7)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Shallow Aquitard (D3)
Sparsely Vegetated Concave Surface (B8)	Microtopographic Relief (D4)
	FAC-Neutral Test (D5)
	Other (Explain in Remarks)
Field Observations:	
Surface Water Present:	
Water Table Present:	Wetland Hydrology Present? ✓ Yes ☐ No
Saturation Present: Yes No Depth (inches): 0	Wetland Hydrology Present? ✓ Yes ☐ No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspecti	ions), if available:
Remarks:	

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		I	I	I
Scientific Name		% Cover	Dominant	Indicator
Spiraea latifolia		70	YES	FACW
Rubus idaeus		10	NO	FACU
Lonicera morrowii		5	NO	FACU
	Total Cover:	85		
Herb Stratum				
Plot Size: 5 feet				
Scientific Name		% Cover	Dominant	Indicator
Onoclea sensibilis		30	YES	FACW
Rubus hispidus		10	YES	FACW
	Total Cover:	40		
Vine Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			

Numbe that are Total N Species Percent	r of Dominant Spe OBL, FACW, or Fumber of Dominar Across All Strata t of Dominant Spe L, FACW, or FAC:	ecies FAC: nt :: cies tha	3 (A) 3 (B))		Total 9 OBL S FACW FAC S FACU UPL S	alence Index W 6 Cover of: pecies: species: pecies: species: pecies: precies: precies: precies:	0 x 1 110 x 2 0 x 3 15 x 4 0 x 5 125 (A)	= 220 = 0 = 60 = 0 280 (B)
1 - R 2 - D 3 - P 4 - N data Prob	ephytic Vegeta capid Test for Hydrominance Test is drevalance is ≤ 3.0 dorphological Adap in Remarks or on elematic Hydrophy tors of hydric soil disturbed or problematic	> 50% otations ¹ a separ tic Vege	Vegetation ' (Provide suppor ate sheet) etation¹ (Explain)	J	esent	Hydro	phytic Vegetat	ion Present	t? ☑ Yes ☐ No
Remark	s:								
	1	Descril	1			cument	the indicator or o	onfirm the a	bsence of indicators.)
Depth (in.)	Matrix Color (Moist)	%	Color (Moist)	lox Featu %	Type 1	Loc ²	Texture		Remarks
0-8	2.5Y 3/1	100					FINE SANDY LOAM		
8-15	2.5Y 4/2	90	2.5Y 4/4	10	D	М	FINE SANDY LOAM		
L			l						
¹ Type:	C=Concentration,	D=Dep	etion, RM=Redu	ced Matri	x, CS=Co	overed Sa	and or Coated Sand	Grains. 2	Location: PL=Pore Lining, M=Matrix
	C=Concentration, c Soil Indicator		letion, RM=Redu	ced Matri	x, CS=Co	overed Sa	and or Coated Sand		Cocation: PL=Pore Lining, M=Matrix

Restrictive Layer Present (if present):	
Туре:	Hydric Soil Present? ✓ Yes ☐ No
Depth (inches):	nyunc son Fresent? 🖭 res 🗆 No
Remarks:	

Photos



SC1AW464_052214_WET1SW.jpg Photo Name: Note: SC-1A-W464-WET1

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, 7	Township, Range: Summit
Landform: Sideslope Local Relief:	Concave ☐ Convex ☑ None Slope (%):10
Subregion: Middle Atlantic Latitude: 42.591298 Lor	ngitude: -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 n	needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sampling point	locations, transects, important features, etc.
Hydrophytic Vegetation Present? ☐ Yes ✓ No Is the Sampled Area	1
Hydric Soil Present? Yes V No within a Wetland?	☐ Yes ☑ No
Wetland Hydrology Present? ☐ Yes ✓ No	
Remarks: Upland plot	
Field Wetland Classification:	
HYDROLOGY	
Wetland Hydrology Indicators	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1)	Surface Soil Cracks (B6) Drainage Patterns (B10)
High Water Table (A2) Saturation (A3) Aquatic Fauna (B13) Marl Deposits (B15)	Moss Trim Lines (B16)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3)	Crayfish Burrows (C8)
Drift Deposits (B3) Presence of Reduced Iron (C4)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6)	Stunted or Stressed Plants (D1)
☐ Iron Deposits (B5) ☐ Thick Muck Surface (C7)	Geomorphic Position (D2)
☐ Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks)	Shallow Aquitard (D3)
Sparsely Vegetated Concave Surface (B8)	☐ Microtopographic Relief (D4)
	FAC-Neutral Test (D5)
	Other (Explain in Remarks)
Field Observations:	
Surface Water Present:	
Water Table Present:	
Saturation Present: Yes V No Depth (inches):	Wetland Hydrology Present? ☐ Yes ✓ No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection	ons), if available:
Remarks:	

Tree Stratum				
Plot Size: 30 feet Scientific Name		% Cover	Dominant	Indicator
Acer saccharum		55	YES	FACU
Acer rubrum		8	NO	FAC
Quercus rubra		25	YES	FACU
	Total Cover:	88		
Sapling Stratum				
Plot Size: 15 feet Scientific Name		% Cover	Dominant	Indicator
Acer saccharum		10	YES	FACU
	Total Cover:	10	I	
Shrub Stratum				
Plot Size: 15 feet		ı	Ī	1
Scientific Name		% Cover	Dominant	Indicator
Crataegus crus-galli		10	NO	FAC
Hamamelis virginiana		30	YES	FACU
Carya sp		8	NO	FAC
	Total Cover:	48		
Herb Stratum				
Plot Size: 5 feet Scientific Name		% Cover	Dominant	Indicator
Rubus idaeus		10	NO	FACU
	Total Cover:	10		•
Vine Stratum		-		
Plot Size: 30 feet Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			

Histosol (A1) Histosol (A2) Black Histic (A3) Hydricg Soil Indicators (S8) (LRR R, MLRA 149B) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Indicators for Problematic Hydric Soils Indicators for Problematic Hydre Indicators for Indicators Indicators for Indicators Indicators for Indicators Indicators Indicators Indicators Indicators Indicators Indicators Indicators Indicators Indicators Indicators Indicators Indicators Indicators Indicators Indicators Indicators Indicat	Dominance Test Worksheet: Number of Dominant Species that are OBL, FACW, or FAC:					esent	OBL S FACW FAC S FACU UPL S Colum	alence Index Wo 6 Cover of: pecies: Species: pecies: pecies: precies: pecies: prevalence	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
Depth (in.) Color (Moist) % Color (Moist) % Type 1 Loc2 Texture Remarks 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 Fly Coation: PL=Pore Lining, M=Matrix Fly Fly Coation: PL=Pore Lining, M=Matrix Fly Fly Fly Fly Fly Fly Fly Fly Fly Fly	Remarks:	<u> </u>	lematic.						
(in.) Color (Moist) % Color (Moist) % Type 1 Loc2 Texture Remarks 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: Indicators: Indicators for Problematic Hydric Soils Histosol (A1)			Describ	<u> </u>			cument	the indicator or c	onfirm the absence of indicators.)
0-8 10YR 3/2 100 FINE SANDY LOAM **Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains. **Depleted Below Dark Surface (A11)			0/				1.002	Toyturo	Romarka
8-12 10YR 3/4 100 FINE SANDY LOAM Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains. Place of the state	` ,	, ,		Color (Worst)	70	туре	LUC		Remarks
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains. Hydric Soil Indicators: Indicators for Problematic Hydric Soils									
Histosol (A1) Histosol (A2) Black Histic (A3) Hydricg Soil Indicators (S8) (LRR R, MLRA 149B) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Indicators for Problematic Hydric Soils Indicators for Problematic Hydre Indicators for Indicators Indicators for Indicators Indicators for Indicators Indicators Indicators Indicators Indicators Indicators Indicators Indicators Indicators Indicators Indicators Indicators Indicators Indicators Indicators Indicators Indicators Indicat	8-12	10YR 3/4	100					FINE SANDY LOAM	
Histosol (A1) Histosol (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Indicators for Problematic Hydric Soils Indicators for Problematic Hydra 149B) Indicators 149B) Indicators for Problematic Hydra 149B) Indicators 149B) Indicators 149B) Indicators 149B) Indicators 149B) Indicators 149B) Indicators 149B) Indicators 149B) Indicators 149B) Indicators 149B) Indicators 149B) Indicators 149B) Indicators 149B) Indicators 149B) Indicators 149B) Indicators 149B) I									
Histosol (A1) Histosol (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Coast: Prairie Redox (A16) (LRR K, L, R) Coast: Prairie Redox (A16) (LRR K, L, R) Doark Surface (S3) (LRR K, L, R) Doark Surface (S7) (LRR K, L, M) Depleted Matrix (F3) Depleted Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)	¹ Type: C	C=Concentration	, D=Depl	etion, RM=Redu	ced Matrix	c, CS=Cc	vered Sa	and or Coated Sand	Grains. ² Location: PL=Pore Lining, M=Matrix.
Histosol (A1) Histosol (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Coast: Prairie Redox (A16) (LRR K, L, R) Coast: Prairie Redox (A16) (LRR K, L, R) Doark Surface (S3) (LRR K, L, R) Doark Surface (S7) (LRR K, L, M) Depleted Matrix (F3) Depleted Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)	Hvdric	Soil Indicator	rs:						Indicators for Problematic Hydric Soils
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)	Histic	Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6)					RR R, ML	RA 149B)	

Restrictive Layer Present (if present):			
Туре:	Hydric Soil Present?	☐ Yes	✓ No
Depth (inches):	Tryunc 3011 Fresent:	□ 1 6 5	™ NO
Remarks:			

Photos



SC1AW464_052214_UPL1E.jpg Photo Name: Note: SC-1A-W464-UPL1

Project/Site Constitution Milepost 122.7 City/County: School	harie Sampling Date: 2013/11/11
Applicant/Owner: Williams State: NY	Sampling Point: SC-1C-W172A-WET1
Investigator(s): RR;KH USGS Quad: Schoharie Schoharie	ection, Township, Range: Schoharie
Landform: Depression Local Rel	ief: ✔ 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? $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	es 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? ✓ Yes □ No Is the Sampled	1 Area
Hydric Soil Present? Yes No within a Wetla	
Wetland Hydrology Present? ✓ Yes ☐ No	
Remarks:	
Field Wetland Classification: PEM	
HYDROLOGY	
Wetland Hydrology Indicators	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1) Water Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) Marl Deposits (B15)	Drainage Patterns (B10)
	Moss Trim Lines (B16)
Water Marks (B1) Sediment Deposits (B2) Hydrogen Suffice Odor (C1) Oxidized Rhizospheres on Living Ro	Dry-Season Water Table (C2) Crayfish Burrows (C8)
Drift Deposits (B3) Presence of Reduced Iron (C4)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils	
☐ Iron Deposits (B5) ☐ Thick Muck Surface (C7)	Geomorphic Position (D2)
☐ Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks)	Shallow Aquitard (D3)
Sparsely Vegetated Concave Surface (B8)	Microtopographic Relief (D4)
	FAC-Neutral Test (D5)
	Other (Explain in Remarks)
Field Observations:	
Surface Water Present: Yes V No Depth (inches):	
Water Table Present:	www.a.a.a.a.a.a.a.a.a.a.a.a.a.a.a.a.a.a
Saturation Present: Yes V No Depth (inches):	Wetland Hydrology Present? ✓ Yes ☐ No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous i	nspections), if available:
Remarks:	

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
Cornus racemosa		10	YES	FAC
	Total Cover:	10		<u> </u>
Herb Stratum				
Plot Size: 5 feet Scientific Name		% Cover	Dominant	Indicator
Phalaris arundinacea		97	YES	FACW
Scirpus cyperinus		3	NO	OBL
	Total Cover:	100		
Vine Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
			1	1

Dominance Test Worksheet Number of Dominant Species that are OBL, FACW, or FAC:	.:(A)	Prevalence Ind Total % Cover of: OBL Species:	lex Workshe		tiply by:	-
Total Number of Dominant Species Across All Strata:	2 (B)	FACW Species:	97	x 2 =	194	-
Percent of Dominant Species that	400 (4.45)	FAC Species:	10	x 3 =	30	=
are OBL, FACW, or FAC:	100(A/B)	FACU Species:	0	x 4 =	0	-
		UPL Species:	0	x 5 =	0	-
		Column Totals:	110	(A)	227	(B)
		Pr	evalence Index =	= B/A =	2.06	-
Hydrophytic Vegetation Ind 1 - Rapid Test for Hydrophytic Vegetation Ind 2 - Dominance Test is > 50% 3 - Prevalance is ≤ 3.0 4 - Morphological Adaptations¹ (P data in Remarks or on a separate Problematic Hydrophytic Vegetation Indicators of hydric soil and wetland unless disturbed or problematic.	getation rovide supporting sheet) on¹ (Explain)	Hydrophytic Ve	egetation Pre	esent?	✓ Yes □	No
Remarks:						

SOIL

Depth	Matrix		Redox Features					
(in.)	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²	Texture	Remarks
0-1	2.5Y 3/2	100					SILT LOAM	
1-6	2.5Y 4/2	95	7.5YR 4/4	5	С	PL	SILT LOAM	
6-20	2.5Y 5/1	80	2.5Y 5/6	20	С	М	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:		Indicators for Problematic Hydric Soils
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)	Polyvalue Below Surface (S8) (LRR R, MLRA 144 Thin Dark Surface (S9) (LRR R, MLRA 149B) Loamy Mucky Mineral (F1) (LRR K, L) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Other (Explain in Remarks)	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)
Restrictive Layer Present (if prese	ent):	
Туре:		Hydric Soil Present? ✓ Yes ☐ No
Depth (inches):		Hydric Son Fresent: 🖭 res 🗀 No
Photos		
Photo Name: SC1CW172A 11111	3. WET1NE ing	SC-1C-W172A-WET1

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 L	ongitude: -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	f needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sampling point	nt locations, transects, important features, etc.
Hydrophytic Vegetation Present? ✓ Yes □ No Is the Sampled Are	na .
Hydric Soil Present? Yes No within a Wetland?	✓ Yes 🗆 No
Wetland Hydrology Present? ✓ Yes ☐ No	
Remarks:	
Field Wetland Classification: PSS	
HYDROLOGY	
Wetland Hydrology Indicators	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1) Water Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) Marl Deposits (B15)	Drainage Patterns (B10)
	☐ Moss Trim Lines (B16) ☐ Dry-Season Water Table (C2)
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3)	
☐ Drift Deposits (B3) ☐ Presence of Reduced Iron (C4)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6)	Stunted or Stressed Plants (D1)
☐ Iron Deposits (B5) ☐ Thick Muck Surface (C7)	Geomorphic Position (D2)
☐ Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks)	Shallow Aquitard (D3)
Sparsely Vegetated Concave Surface (B8)	☐ Microtopographic Relief (D4)
	FAC-Neutral Test (D5)
	Other (Explain in Remarks)
Field Observations:	
Surface Water Present:	
Water Table Present:	
Saturation Present: Yes V No Depth (inches):	Wetland Hydrology Present? ✓ Yes ☐ No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	tions), if available:
Remarks:	
Tomano.	

Tree Stratum				
Plot Size: 30 feet Scientific Name		% Cover	Dominant	Indicator
Ulmus rubra		5	YES	FAC
Acer saccharum		5	YES	FACU
	Total Cover:	10		
Sapling Stratum				
Plot Size: 15 feet Scientific Name		% Cover	Dominant	Indicator
Cornus amomum		40	YES	FACW
Cornus racemosa		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:			

that are Total No Species Percent	nance Test Wo r of Dominant Spec OBL, FACW, or FA umber of Dominant s Across All Strata: t of Dominant Spec L, FACW, or FAC:	cies AC: t	3 (A 4 (B)		Total S OBL S FACW FAC S FACU UPL S	alence Index W 6 Cover of: pecies: Species: pecies: pecies: n Totals:		0 80 135 20 0 235 (B)
1 - R 2 - D 3 - P 4 - N data Prob	pphytic Vegetate capid Test for Hydro cominance Test is > crevalance is ≤ 3.0 dorphological Adapt in Remarks or on a colematic Hydrophyti tors of hydric soil a disturbed or proble	ophytic > 50% tations¹ a separ ic Vege and wet	Vegetation (Provide supporate sheet) tation¹ (Explain)	Ū	resent	Hydro	ophytic Vegeta		✓ Yes □ No
Remarks	s:								
Profile		Describ				cument	the indicator or	confirm the abse	ence of indicators.)
Profile Depth	Matrix		Red	dox Feat	ıres	1		confirm the abse	·
Profile		% 95				Loc ²	Texture SILT LOAM	confirm the abse	ence of indicators.) Remarks
Profile Depth (in.)	Matrix Color (Moist)	%	Red Color (Moist)	dox Featu %	Type 1	Loc ²	Texture	confirm the abse	·
Profile Depth (in.) 0-12 12-18	Matrix Color (Moist) 2.5Y 4/2 2.5Y 5/3	% 95 90	Rec Color (Moist) 7.5YR 5/6 2.5Y 5/6	5 10	Type ¹ C	Loc² PL M	Texture SILT LOAM FINE SANDY LOAM		·
Profile Depth (in.) 0-12 12-18	Matrix Color (Moist) 2.5Y 4/2 2.5Y 5/3	% 95 90 D=Dept	Rec Color (Moist) 7.5YR 5/6 2.5Y 5/6	5 10	Type ¹ C	Loc² PL M	Texture SILT LOAM	Grains. ² Loc	Remarks

Restrictive Layer Present (if present):			
Туре:	Hydric Soil Present?	✓ Yes	□ No
Depth (inches):	riyunc 3011 Fresent:	<u> </u>	
Remarks:	1		

Photos



SC1CW172A_111113_WET2N.jpg Photo Name: Note: SC-1C-W172A-WET2

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 Lo	ongitude:74.26678
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 r	needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sampling point	t locations, transects, important features, etc.
Hydrophytic Vegetation Present? ☐ Yes ✓ No	•
Hydric Soil Present?	□ Yes ☑ No
Wetland Hydrology Present? ☐ Yes ✓ No	
Remarks: upland plot	
Field Wetland Classification:	
HYDROLOGY	
Wetland Hydrology Indicators	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1) Water Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) Marl Deposits (B15)	Drainage Patterns (B10)
	Moss Trim Lines (B16)
Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3)	☐ Dry-Season Water Table (C2) ☐ Crayfish Burrows (C8)
Drift Deposits (B3) Presence of Reduced Iron (C4)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6)	Stunted or Stressed Plants (D1)
☐ Iron Deposits (B5) ☐ Thick Muck Surface (C7)	Geomorphic Position (D2)
☐ Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks)	Shallow Aquitard (D3)
Sparsely Vegetated Concave Surface (B8)	Microtopographic Relief (D4)
	FAC-Neutral Test (D5)
	Other (Explain in Remarks)
Field Observations:	
Surface Water Present: Yes V No Depth (inches):	
Water Table Present:	
Saturation Present:	Wetland Hydrology Present? ☐ Yes ✔ No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspecti	ions), if available:
Remarks:	

Tree Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
Quercus rubra		15	YES	FACU
	Total Cover:	15		
Sapling Stratum				
Plot Size: 15 feet				
Scientific Name		% Cover	Dominant	Indicator
Quercus rubra		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
Phleum pratense		5	NO	FACU
Euthamia graminifolia		5	NO	FAC
Zea mays		40	YES	UPL
	Total Cover:	50		
Vine Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
	Total Cover.			

Dominance Test Worksheet: Number of Dominant Species		Prevalence Inde Total % Cover of:	x Workshe		tiply by:	
that are OBL, FACW, or FAC:	0 (A)	OBL Species:	0	x 1 =	0	-
Total Number of Dominant Species Across All Strata:	3 (B)	FACW Species:	0	x 2 =	0	-
Percent of Dominant Species that	(FAC Species:	5	x 3 =	15	=
are OBL, FACW, or FAC:	0 (A/B)	FACU Species:	30	x 4 =	120	_
		UPL Species:	40	x 5 =	200	_
		Column Totals:	75	(A)	335	_ (B)
		Prev	alence Index =	: B/A =	4.47	_
Hydrophytic Vegetation Indi	cators:					
1 - Rapid Test for Hydrophytic Veg	etation					
2 - Dominance Test is > 50%		Hydrophytic Veg	etation Pre	sent?	☐ Yes 🗸	No
☐ 3 - Prevalance is ≤ 3.0						
4 - Morphological Adaptations¹ (Production data in Remarks or on a separate s						
Problematic Hydrophytic Vegetation	n¹ (Explain)					
¹ Indicators of hydric soil and wetland unless disturbed or problematic.	hydrology must be present					
Remarks:						

SOIL

Depth	Matrix		Redo	x Feat	ures			
(in.)	Color (Moist)	(Moist) % Color (Moist) % Type 1 Loc2 Texture	Texture	Remarks				
-2	2.5Y 4/3	100					FINE SANDY LOAM	
14	2.5Y 4/4	100					FINE SANDY LOAM	
-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 Indica	ators:	Indicators for Problematic Hydric Soils
	Loamy Mucky Mineral (F1) (LRR K, I Loamy Gleyed Matrix (F2) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) x (S4) Other (Explain in Remarks)	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)
Restrictive Lave	r Present (if present):	
Type:	rresent (ii present).	Hydric Soil Present? ☐ Yes ☑ No
Photos Photo Name: S	SC1CW172A_11113_UPL1SW.jpg	Note: SC-1C-W172A-UPL1

Project/Site Constitution	Milepost 97.46	City/County:	Schohari	e Sampling Date: 2013/12/10
Applicant/Owner: Williams		State:	NY	Sampling Point: SC-1C-W459-WET1
Investigator(s): RR;KH	USGS Quad: Summ	nit	Section	on, Township, Range: Summit
Landform: Depression		Loc	cal Relief:	✓ Concave ☐ Convex ☐ None Slope (%): 1
Subregion: Middle Atlantic	Latitu	de: 42.55395	50	Longitude: -74.61856 Datum: NAD 1983
Soil Map Unit Name: Volusia cha	annery silt loam, 3 to 8 per	cent slopes		NWI Classification: Not Mapped
Are climatic/hydrologic conditions o	n the site typical for this ti	me of year?	✓ Yes	☐ No (If no, explain in Remarks.)
Are Vegetation Soil or H	ydrology significantly	disturbed?	No	Are "Normal Circumstances" present? ✓ Yes ☐ No
Are Vegetation Soil or Hy	drology	blematic?	No	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS	3 - Attach site map	showing sar	npling po	oint locations, transects, important features, etc.
Hydrophytic Vegetation Present?	✓ Yes	la tha Sai	mplad A	***
Hydric Soil Present?	✓ Yes	Is the Sar within a \		
Wetland Hydrology Present?	✓ Yes			•
Remarks:				
Field Wetland Classification: PFC)			
HYDROLOGY				
Wetland Hydrology Indicator	'S			
Primary Indicators (minimum of one is r	equired; check all that apply)			Secondary Indicators (minimum of two required)
Surface Water (A1)		ed Leaves (B9)		Surface Soil Cracks (B6)
High Water Table (A2)	Aquatic Fau			☐ Drainage Patterns (B10)
Saturation (A3)	Marl Deposi			Moss Trim Lines (B16)
Water Marks (B1)	✓ Oxidized Rh	ulfide Odor (C1)	vina Poots (Dry-Season Water Table (C2)
Sediment Deposits (B2)		Reduced Iron (C		Graynon Barrono (GG)
Drift Deposits (B3)		Reduction in Tille	,	Saturation Visible on Aerial Imagery (C9)
☐ Algal Mat or Crust (B4)☐ Iron Deposits (B5)		Surface (C7)	34 00.10 (00 _.	Stunted or Stressed Plants (D1)
Inundation Visible on Aerial Imager		ain in Remarks)		Geomorphic Position (D2)
Sparsely Vegetated Concave Surfa	, (5.)	,		Shallow Aquitard (D3)
operacity vegetated contexts carre	00 (20)			Microtopographic Relief (D4)
				FAC-Neutral Test (D5)
				Other (Explain in Remarks)
Field Observations:				
Surface Water Present:	Yes V No Depth (i	nches):		
Water Table Present:	Yes No Depth (i	nches): 1		
Saturation Present:	Yes No Depth (i	nches): 0		Wetland Hydrology Present? ✓ Yes No
Describe Recorded Data (stream g	jauge, monitoring well, ae	rial photos, pre	vious insp	ections), if available:
Remarks:				

% Cover	Dominant	Indicator
30	YES	FAC
10	YES	FACW
: 40		
% Cover	Dominant	Indicator
<u> </u>		
% Cover	Dominant	Indicator
25	YES	FACW
20	YES	FACW
: 45	1	
% Cover	Dominant	Indicator
20	YES	FACW
: 20	1	1
% Cover	Dominant	Indicator
<u> </u> :		
	30 10 :: 40 % Cover 25 20 :: 45 % Cover 20	30 YES 10 YES 10 YES 10 YES 10 YES 10 YES 11 YES 12 YES 12 YES 13 YES 14 YES 15 YES 16 YES 17 YES 18 YES 19 YES 19 YES 19 YES 19 YES 19 YES 19 YES 19 YES 19 YES 19 YES 19 YES 19 YES 19 YES 19 YES 19 YES 19 YES 19 YES

Dominance Test Worksheet Number of Dominant Species that are OBL, FACW, or FAC:	5 (A)	Prevalence Ir Total % Cover of: OBL Species:	ndex Workshe		tiply by:	-	
Total Number of Dominant Species Across All Strata:	5 (B)	FACW Species:	75	x 2 =	150	_	
Percent of Dominant Species that	100 (A/B)	FAC Species: FACU Species:	30	x 3 = x 4 =	90	-	
are OBL, FACW, or FAC:	(775)	UPL Species:	0	x 5 =	0	=	
		Column Totals:	105	(A)	240	(B)	
		1	Prevalence Index =	: B/A =	2.29	-	
Hydrophytic Vegetation Indi	cators:						
1 - Rapid Test for Hydrophytic Veg	getation						
✓ 2 - Dominance Test is > 50%		Hydrophytic Vegetation Present? ✓ Yes ☐ No					
✓ 3 - Prevalance is ≤ 3.0							
4 - Morphological Adaptations¹ (Pidata in Remarks or on a separate							
Problematic Hydrophytic Vegetation	on¹ (Explain)						
¹ Indicators of hydric soil and wetland unless disturbed or problematic.							
Remarks:							

SOIL

Depth	Matrix		Rede	ox Feat	ures			
(in.)	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²	Texture	Remarks
0-3	10YR 3/2	100					FINE SANDY LOAM	
3-14	10YR 4/3	97	7.5YR 4/6	3	С	PL	FINE SANDY LOAM	
14-20	2.5Y 5/2	90	10 YR 5/6	10	С	М	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:		Indicators for Problematic Hydric Soils
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 14)	□ Polyvalue Below Surface (S8) (LRR R, MLRA 149B) □ Loamy Mucky Mineral (F1) (LRR K, L) □ Loamy Gleyed Matrix (F2) ☑ Depleted Matrix (F3) □ Redox Dark Surface (F6) □ Depleted Dark Surface (F7) □ Redox Depressions (F8) □ Other (Explain in Remarks)	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)
Restrictive Layer Present (if	present):	
Type: Depth (inches):		Hydric Soil Present? ✓ Yes ☐ No
Photos		
Photo Name: SC1CW459 1	21013 WET1SW ing Note:	SC-1C-W459-WET1

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 L	_ongitude:74.61874
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	f needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sampling point	nt locations, transects, important features, etc.
Hydrophytic Vegetation Present? ☐ Yes ✓ No	22
Hydric Soil Present?	□ Yes 🗹 No
Wetland Hydrology Present?	
Remarks: Upland Plot	
Field Wetland Classification:	
HYDROLOGY	
Wetland Hydrology Indicators	
Primary Indicators (minimum of one is required; check all that apply) Water Steinard Legues (P0)	Secondary Indicators (minimum of two required)
Surface Water (A1) ☐ High Water Table (A2) ☐ Aquatic Fauna (B13)	Surface Soil Cracks (B6) Drainage Patterns (B10)
	Moss Trim Lines (B16)
Saturation (A3) Water Marks (B1) Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3)	
Drift Deposits (B3) Presence of Reduced Iron (C4)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6)	Stunted or Stressed Plants (D1)
☐ Iron Deposits (B5) ☐ Thick Muck Surface (C7)	Geomorphic Position (D2)
☐ Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks)	Shallow Aquitard (D3)
Sparsely Vegetated Concave Surface (B8)	Microtopographic Relief (D4)
	FAC-Neutral Test (D5)
	Other (Explain in Remarks)
Field Observations:	
Surface Water Present:	
Water Table Present:	
Saturation Present:	Wetland Hydrology Present? ☐ Yes ✓ No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	ctions), if available:
Remarks:	

% Cover	Dominant	
% Cover	Dominant	
% Cover	Dominant	
	Dominant	Indicator
5	YES	FAC
15	YES	UPL
20		
% Cover	Dominant	Indicator
1	1	1
% Cover	Dominant	Indicator
10	YES	FACW
10		
% Cover	Dominant	Indicator
15	YES	FAC
10	NO	FACU
20	YES	FACU
5	NO	FAC
10	NO	FACU
60		
% Cover	Dominant	Indicator
	: 20 % Cover :	% Cover Dominant 10 YES 10 NO 20 YES 5 NO 10 NO S 60

Dominance Test Worksheet	:	Prevalence Index					
Number of Dominant Species	2 (4)	Total % Cover of:		Mult	tiply by:	_	
that are OBL, FACW, or FAC:	(A)	OBL Species:	0	x 1 =	0		
Total Number of Dominant Species Across All Strata:	5 (B)	FACW Species:	10	x 2 =	20	_	
Percent of Dominant Species that		FAC Species:	25	x 3 =	75	_	
are OBL, FACW, or FAC:	60 (A/B)	FACU Species:	40	x 4 =	160	_	
		UPL Species:	15	x 5 =	75	=	
		Column Totals:	90	(A) _	330	(B)	
		Preva	alence Index = E	B/A = _	3.67	-	
Hydrophytic Vegetation Indi	icators:						
1 - Rapid Test for Hydrophytic Veg	getation						
2 - Dominance Test is > 50%		Hydrophytic Vegetation Present? ☐ Yes ✓ No					
☐ 3 - Prevalance is ≤ 3.0							
4 - Morphological Adaptations¹ (Pidata in Remarks or on a separate							
Problematic Hydrophytic Vegetation	on¹ (Explain)						
¹ Indicators of hydric soil and wetland unless disturbed or problematic.	d hydrology must be present						
Remarks:							

SOIL

Depth	Matrix	Matrix		edox Features				
(in.)	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²	Texture	Remarks
-4	10YR 3/2	100					LOAM	
-12	10YR 3/3	100					LOAM	
2-18	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:	Indicators for Problematic Hydric Soils			
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Redox (S5) Stripped Matrix (S4) Dark Surface (S7) (LRR R, MLRA 149B) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Loamy Mucky Mineral (F1) (LRR K, L) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Other (Explain in Remarks) Polyvalue Below Surface (S9) (LRR R, 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)			
Restrictive Layer Present (if present):				
Type:	Hydric Soil Present? ☐ Yes ✓ No			
Depth (inches):				
Photos				
Photo Name: SC1CW459_121013_UPL1NW.jpg Note: S	SC-1C-W459-UPL1			

Project/Site Constitution Milepost 107.1 City/County: School	harie Sampling Date: 2013/06/19
Applicant/Owner: Williams State: NY	Sampling Point: SC-1Q-W425-WET1
Investigator(s): EG;AM;KH USGS Quad: Richmondville S	ection, Township, Range: Richmondville
Landform: Hillside Local Re	lief: ✓ 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 s	lopes NWI Classification: Not Mapped
Are climatic/hydrologic conditions on the site typical for this time of year? ✓ Y	es
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	g point locations, transects, important features, etc.
Hydrophytic Vegetation Present? ✓ Yes □ No Is the Sample	d Area
Hydric Soil Present? ✓ Yes □ No within a Wetla	
Wetland Hydrology Present? ✓ Yes ☐ No	
Remarks:	
Field Wetland Classification: PFO	
HYDROLOGY	
Wetland Hydrology Indicators	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
✓ Surface Water (A1) Water Stained Leaves (B9)	Surface Soil Cracks (B6)
✓ High Water Table (A2)	✓ Drainage Patterns (B10)
✓ Saturation (A3) Marl Deposits (B15) Marl Deposits (B15)	Moss Trim Lines (B16)
Water Marks (B1) ✓ Hydrogen Sulfide Odor (C1) ✓ Oxidized Rhizospheres on Living Ro	Dry-Season Water Table (C2)
Dragging of Deduced Iron (CA)	Ordynski Burrows (OO)
Dilit Deposits (B3)	Saturation Visible on Aerial Imagery (C9)
☐ Algal Mat or Crust (B4) ☐ Recent Iron Reduction in Tilled Soils ☐ Thick Muck Surface (C7)	Stunted or Stressed Plants (D1)
☐ Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks)	✓ Geomorphic Position (D2)
Sparsely Vegetated Concave Surface (B8)	Shallow Aquitard (D3)
	Microtopographic Relief (D4)
	FAC-Neutral Test (D5)
	Other (Explain in Remarks)
Field Observations:	
Surface Water Present: Yes No Depth (inches): 1	
Water Table Present: ✓ Yes	
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:	

Tree Stratum				
Plot Size: 30 feet Scientific Name		% Cover	Dominant	Indicator
Acer saccharum		50	YES	FACU
	Total Cover:	50		
Sapling Stratum				
Plot Size: 15 feet Scientific Name		% Cover	Dominant	Indicator
Fraxinus pennsylvanica		60	YES	FACW
	Total Cover:	60		
Shrub Stratum				
Plot Size: 15 feet Scientific Name		% Cover	Dominant	Indicator
Fraxinus pennsylvanica		10	YES	FACW
	Total Cover:	10	1	
Herb Stratum				
Plot Size: 5 feet Scientific Name		% Cover	Dominant	Indicator
Impatiens capensis		80	YES	FACW
Onoclea sensibilis		5	NO	FACW
	Total Cover:	85	,	1
Vine Stratum				
Plot Size: 30 feet Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			

Dominance Test Worksheet: Number of Dominant Species			Prevalence Index Worksheet: Total % Cover of: Multiply by:								
	OBL, FACW, or		3 (A))		OBL S	pecies:	0	x 1 =	0	
	umber of Domina		4 (D				Species:	155	x 2 =	310	
	s Across All Strat		. 4 (B))		FAC S	·	0	x 3 =	0	
	t of Dominant Sp L, FACW, or FAC		t 75 (A	/B)			Species:	50	x 4 =	200	
ale Obi	L, I ACVV, OI I AC	, .		-,		UPL S	· —	0	x 5 =	0	
							n Totals:	205	(A)	510	(B)
						Column	-	-			(6)
					Prevalence Index = B/A = 2.49						
	phytic Veget										
1 - R	1 - Rapid Test for Hydrophytic Vegetation										
	ominance Test is					Hydro	phytic Veget	tation Pre	sent?	✓ Yes	No
✓ 3 - P	revalance is ≤ 3.	0									
	Norphological Ada in Remarks or o			ting							
☐ Prob	olematic Hydroph	ytic Vege	etation¹ (Explain)								
	tors of hydric soi		land hydrology m	nust be pro	esent						
Remark	<u>'</u>										
Remark	S.										
SOIL											
SUIL											
Profile	Description:	(Descri	be to the dept	h neede	d to doo	cument t	he indicator o	or confirm	the abse	ence of indicato	ors.)
Depth	Matrix		Red	lox Featu	itures						
(in.)	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²	Texture			Remarks	
0.0	2 57/ 4/4	02	7.570.476								
0-8	2.5Y 4/1	92	7.5YR 4/6	8	С	M		Muc	K		
8-22	5Y 4/1	97	10YR 5/6	3	С	М	CLAY LOAM	10%	gravel		
0 22	31 1/1	37	101113/0				CEAT EGATIVE	1070	Braver		
1									2.	5. 5	
' Type:	C=Concentration	і, D=Dер	letion, RM=Redu	ced Matri	x, CS=Co	overed Sa	nd or Coated Sa	nd Grains.	² L00	cation: PL=Pore Li	ning, M=Matrix.
Hydric Soil Indicators: Indicators for Problematic Hydric Soils											
Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B)					149B)						
Histic Epipedon (A2) Thin Dark Surface (S9) (LR					•	Coa	st: Prairie F	Redox (A16) (LRR K,	L, R)		
Black Histic (A3) Loamy Mucky Mineral (F1)					L)	5 cm	Mucky Pe	at or Peat (S3) (LRR	K, L, R)		
					Surface (S	S7) (LRR K, L, M)					
Stratified Layers (A5)											
Stra	drogen Sulfide (A4)		✓ Dep		, ,				value Belo	w Surface (S8) (LRR	K, L)
	drogen Sulfide (A4)	Surface (A	Dep	lox Dark Su	ırface (F6)			Poly		w Surface (S8) (LRR ace (S9) (LRR K, L)	K, L)
☐ Dep	drogen Sulfide (A4) atified Layers (A5)	,	Dep	lox Dark Su eleted Dark	ırface (F6) Surface (F			Poly	Dark Surfa	ace (S9) (LRR K, L)	
☐ Dep	drogen Sulfide (A4) atified Layers (A5) pleted Below Dark S	12)	Dep	lox Dark Su	ırface (F6) Surface (F			Poly Thin	Dark Surfa Manganes	ace (S9) (LRR K, L) e Masses (F12) (LRR	k K, L, R)
Dep	drogen Sulfide (A4) atified Layers (A5) pleted Below Dark S ck Dark Surface (A	(12) (S1)	Dep 111)	lox Dark Su eleted Dark	urface (F6) Surface (F sions (F8)	=7)		Poly Thin Iron-	Dark Surfa Manganes mont Flood	ace (S9) (LRR K, L) e Masses (F12) (LRR dplain Soils (F19) (ML	K, L, R) RA 149B)
☐ Dep☐ Thid☐ Sar☐ Sar	drogen Sulfide (A4) atified Layers (A5) pleted Below Dark S ck Dark Surface (A ² ndy Mucky Mineral ((12) (S1)	Dep 111)	lox Dark Su leted Dark lox Depress	urface (F6) Surface (F sions (F8)	=7)		Poly Thin Iron- Pied Mes	Dark Surfa Manganes mont Flood c Spodic (*	ace (S9) (LRR K, L) e Masses (F12) (LRR dplain Soils (F19) (ML TA6) (MLRA 144A, 14	K, L, R) RA 149B)
☐ Dep ☐ Thio ☐ Sar ☐ Sar ☐ Sar	drogen Sulfide (A4) atified Layers (A5) pleted Below Dark S ck Dark Surface (A ndy Mucky Mineral (ndy Gleyed Matrix (S	(12) (S1)	Dep 111)	lox Dark Su leted Dark lox Depress	urface (F6) Surface (F sions (F8)	=7)		Poly Thin Iron- Pied Mes Red	Dark Surfa Manganes mont Flood c Spodic (Parent Ma	ace (S9) (LRR K, L) e Masses (F12) (LRR dplain Soils (F19) (ML TA6) (MLRA 144A, 14 terial (F21)	K, L, R) RA 149B)
Dep Thir Sar Sar Stri	drogen Sulfide (A4) atified Layers (A5) pleted Below Dark S ck Dark Surface (A ndy Mucky Mineral (ndy Gleyed Matrix (S ndy Redox (S5)	(12) (S1) (S4)	✓ Dep ☐ Rec ☐ Dep ☐ Rec ☐ Oth	lox Dark Su leted Dark lox Depress	urface (F6) Surface (F sions (F8)	=7)		Poly Thin Iron- Pied Mes Red Very	Dark Surfa Manganes mont Flood c Spodic (* Parent Ma	ace (S9) (LRR K, L) e Masses (F12) (LRR dplain Soils (F19) (ML TA6) (MLRA 144A, 14 terial (F21) ark Surface (TF12)	K, L, R) RA 149B)
Dep Thir Sar Sar Stri	drogen Sulfide (A4) atified Layers (A5) pleted Below Dark S ck Dark Surface (A1 ndy Mucky Mineral (ndy Gleyed Matrix (S ndy Redox (S5) pped Matrix (S6)	(12) (S1) (S4)	✓ Dep ☐ Rec ☐ Dep ☐ Rec ☐ Oth	lox Dark Su leted Dark lox Depress	urface (F6) Surface (F sions (F8)	=7)		Poly Thin Iron- Pied Mes Red Very	Dark Surfa Manganes mont Flood c Spodic (* Parent Ma	ace (S9) (LRR K, L) e Masses (F12) (LRR dplain Soils (F19) (ML TA6) (MLRA 144A, 14 terial (F21)	K, L, R) RA 149B)

Restrictive Layer Present (if present):		
Туре:	Hydric Soil Pre	esent? ☑ Yes ☐ No
Depth (inches):	nyunc 3011 Pre	sent? Tes Ino
Remarks:	<u>'</u>	

Photos



SC1QW425_061913_WET1SW.jpg Photo Name: Note: SC-1Q-W425-WET1

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: Richm	ondville Sectio	n, Township, Range: Richmondville			
Landform: hillside		Local Relief:	✓ Concave ☐ Convex ☐ None Slope (%): 10			
Subregion: Middle Atlantic	Latitu	de: 42.642457	Longitude: -74.53245 Datum: NAD1983			
Soil Map Unit Name: Lordstown,	Oquaga, and Nassau soil	s, 35 to 70 percent slopes	NWI Classification: Not Mapped			
Are climatic/hydrologic conditions of	n the site typical for this ti	me of year? 🗸 Yes	☐ No (If no, explain in Remarks.)			
Are Vegetation Soil or H	ydrology significantly	disturbed? V No	Are "Normal Circumstances" present? ✓ Yes No			
Are Vegetation Soil or Hy	drology naturally pro	blematic? 🔽 No (If needed, explain any answers in Remarks.)			
SUMMARY OF FINDINGS	S - Attach site map :	showing sampling po	int locations, transects, important features, etc.			
Hydrophytic Vegetation Present?	✓ Yes No					
Hydric Soil Present?	✓ Yes	Is the Sampled Ar within a Wetland?	No.			
Wetland Hydrology Present?	✓ Yes	within a Wetland				
Remarks:						
Field Wetland Classification: PEN	1					
HYDROLOGY						
Wetland Hydrology Indicator	S					
Primary Indicators (minimum of one is reference of the surface Water (A1) I High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imager Sparsely Vegetated Concave Surface	Water Stains Aquatic Faus Marl Deposit ✓ Hydrogen Stains Oxidized Rh Presence of Recent Iron Thick Muck y (B7) Water Stains Aquatic Faus Presence Stains Aquatic Faus Recent Iron Thick Muck Other (Explains)		Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) ✓ Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) ✓ Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5) Other (Explain in Remarks)			
		nches): 5				
		nches): 0 nches): 0	Wetland Hydrology Present? ✓ Yes ☐ No			
E to E to the total and the to						
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		I	I	I
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
Herb Stratum				
Plot Size: 5 feet				
Scientific Name		% Cover	Dominant	Indicator
Impatiens capensis		15	NO	FACW
Solidago sp		15	NO	NONE
Persicaria sagittata		30	YES	OBL
Unknown grass		30	YES	NONE
Veronica anagallis-aquatica		10	YES	OBL
	Total Cover:	100		
Vine Stratum				
Plot Size: 30 feet				
Plot Size: 30 feet Scientific Name		% Cover	Dominant	Indicator

Dominance Test Worksheet Number of Dominant Species that are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species that are OBL, FACW, or FAC:	2 (A) 3 (B) 67 (A/B)	Prevalence Inde Total % Cover of: OBL Species: FACW Species: FAC Species: FACU Species: UPL Species: Column Totals:	40 15 0 0 0 55 valence Index =	Mult x 1 = x 2 = x 3 = x 4 = x 5 = (A)	tiply by: 40 30 0 0 70 1.27	
Hydrophytic Vegetation Ind 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is > 50% 3 - Prevalance is ≤ 3.0 4 - Morphological Adaptations¹ (Pdata in Remarks or on a separate Problematic Hydrophytic Vegetati ¹Indicators of hydric soil and wetlandunless disturbed or problematic.	Hydrophytic Veg	etation Pre	sent?	✓ Yes □	No	
Remarks:						

SOIL

Depth	Matrix		Rede	ox Feat	ures			
(in.)	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²	² Texture	Remarks
0-6	2.5Y 3/2	100				None		Muck
6-17	2.5Y 3/1	90	10YR 4/5	10	С	М	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 Indi	icators:		Indicators for Problematic Hydric Soils
Thick Dark Surfa Sandy Mucky Mi Sandy Gleyed M Sandy Redox (S) Stripped Matrix (C) Dark Surface (S)	e (A4) (A5) Dark Surface (A11) ace (A12) ineral (S1) latrix (S4) 5) (S6) 7) (LRR R, MLRA 149B)	Polyvalue Below Surface (S8) (LRR R, MLRA 1 Thin Dark Surface (S9) (LRR R, MLRA 149B) Loamy Mucky Mineral (F1) (LRR K, L) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Other (Explain in Remarks)	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)
Restrictive Lay	yer Present (if pre	esent):	
Туре:			Hydric Soil Present? ✓ Yes ☐ No
Depth (inches):			Hydric 3011 Fresent: 🖭 Tes 🗀 No
Dhatas			
Photos			44°2, 44%
Photo Name:	SC1QW425_0619	13_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, 7	Township, Range: Richmondville
Landform: hillside Local Relief:	Concave Convex None Slope (%): 10
Subregion: Middle Atlantic Latitude: 42.642338 Lor	ongitude: -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 n	needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sampling point	t locations, transects, important features, etc.
Hydrophytic Vegetation Present? ☐ Yes ✓ No	
Hydric Soil Present?	□ Yes ☑ No
Wetland Hydrology Present?	
Remarks: Upland plot	
Field Wetland Classification: OTHER	
HYDROLOGY	
Wetland Hydrology Indicators	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1) Water Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2) Aquatic Fauna (B13) Mad Deposite (B15)	Drainage Patterns (B10)
Saturation (A3) Marl Deposits (B15) Water Marks (B1) Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16)
Ocidinal Phinashara and Lidar Parts (00)	Dry-Season Water Table (C2)
Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Dill Deposits (B3)	Saturation Visible on Aerial Imagery (C9)
☐ Algal Mat or Crust (B4) ☐ Recent fron Reduction in Tilled Solis (C6) ☐ Iron Deposits (B5) ☐ Thick Muck Surface (C7)	Stunted or Stressed Plants (D1)
☐ Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks)	Geomorphic Position (D2)
Sparsely Vegetated Concave Surface (B8)	Shallow Aquitard (D3)
Grandly regulated contours curtace (Bo)	☐ Microtopographic Relief (D4)
	FAC-Neutral Test (D5)
	Other (Explain in Remarks)
Field Observations:	
Surface Water Present: ☐ Yes ✓ No Depth (inches):	
Water Table Present: ☐ Yes ✓ No Depth (inches):	
Saturation Present: Yes V No Depth (inches):	Wetland Hydrology Present? ☐ Yes ✓ No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection	ons), 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		1	I	ı
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
Herb Stratum				
Plot Size: 5 feet				
Scientific Name		% Cover	Dominant	Indicator
Galium mollugo		60	YES	UPL
wild parsnip		10	NO	FACW
Asclepias syriaca		15	NO	FACU
Veronica chamadrys		10	NO	FACU
Unknown grass		5	NO	NONE
	Total Cover:	100		
Vine Stratum			1	
Plot Size: 30 feet				
		% Cover	Dominant	Indicator

that are OBL, FACW, or Total Number of Domin Species Across All Stra Percent of Dominant S are OBL, FACW, or FA	nant hata: pecies tha C: Ptation I	0 (A) 1 (B) t 0 (A))		Total 9 OBL S FACW FAC S FACU UPL S Colum		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
□ 2 - Dominance Test is > 50% □ 3 - Prevalance is ≤ 3.0 □ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) □ Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic. Remarks:				esent	Hydro	phytic Vegetat	ion Present? □ Yes 🗹 No
SOIL							
_	•	-	n neede lox Featu		ument	the indicator or c	onfirm the absence of indicators.)
Depth Matrix							
(in.) Color (Moist)	%		%	Type 1	Loc ²	Texture	Remarks
(in.) Color (Moist) 0-12 10YR 3/3	% 100	Color (Moist)			Loc² None	Texture LOAM	
, ,							
0-12 10YR 3/3	100	Color (Moist)	%	Type ¹	None M,PL	LOAM SILT LOAM	Remarks 20% gravel; Refusal @16"
0-12 10YR 3/3 12-16 2.5Y 4/3	100 100 on, D=Dep	Color (Moist)	%	Type ¹	None M,PL	LOAM SILT LOAM	Remarks 20% gravel; Refusal @16"

Restrictive Layer Present (if present):			
Туре:	Hydric Soil Present?	☐ Yes	✓ No
Depth (inches):	Tryunc 3011 Fresent:	_ 1 c 3	☑ NO
Remarks:			



SC1QW425_061913_UPL1S.jpg Photo Name: Note: SC-1Q-W425-UPL1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site Constitution Mile	epost 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: Richm	ondville	Section,	Township, Range: Richmondville
Landform: hillside		Loc	cal Relief: 🗸	Concave Convex None Slope (%):
Subregion: Middle Atlantic	Latitu	de: 42.64433	8 Lo	ngitude: -74.53190 Datum: NAD1983
Soil Map Unit Name: Odessa and RI	hinebeck silty clay loan	ns, 6 to 12 per	cent slopes, e	eroded NWI Classification: Not Mapped
Are climatic/hydrologic conditions on th	e site typical for this tir	me of year?	✓ Yes	No (If no, explain in Remarks.)
Are Vegetation Soil or Hydro	ology significantly	disturbed?	No	Are "Normal Circumstances" present? ✓ Yes □ No
Are Vegetation ☐ Soil ☐ or Hydro	logy naturally pro		_	needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS -	Attach site man	howing sam	nnling noint	t locations, transects, important features, etc.
	Yes No	snowing san	ipinig ponii	riodations, transcots, important reatures, etc.
	Yes No		npled Area	a ☑ Yes □ No
	Yes No	within a V	vetland?	E 103 - 110
Remarks:				
romano.				
Field Wetland Classification: PEM				
HYDROLOGY				
Wetland Hydrology Indicators				
Primary Indicators (minimum of one is requi	red; check all that apply)			Secondary Indicators (minimum of two required)
Surface Water (A1)		ed Leaves (B9)		Surface Soil Cracks (B6)
✓ High Water Table (A2)	Aquatic Faur			✓ Drainage Patterns (B10)
Saturation (A3)	Marl Deposit	ulfide Odor (C1)		Moss Trim Lines (B16)
Water Marks (B1)		izospheres on Liv	ing Roots (C3)	Dry-Season Water Table (C2)
Sediment Deposits (B2)		Reduced Iron (C		Crayfish Burrows (C8)
☐ Drift Deposits (B3) ☐ Algal Mat or Crust (B4)		Reduction in Tille	•	Saturation Visible on Aerial Imagery (C9)
Iron Deposits (B5)	Thick Muck	Surface (C7)		Stunted or Stressed Plants (D1)
Inundation Visible on Aerial Imagery (B'	7) Other (Expla	in in Remarks)		Geomorphic Position (D2)
Sparsely Vegetated Concave Surface (·			Shallow Aquitard (D3)
. , ,	,			✓ Microtopographic Relief (D4)
				FAC-Neutral Test (D5) Other (Explain in Remarks)
				Unter (Explain in Remarks)
Field Observations:				
Surface Water Present: Yes	_ ' '			
Water Table Present: Yes	= ' '	nches): 3		
Saturation Present: Yes	s	nches): 0		Wetland Hydrology Present? ✓ Yes No
Describe Recorded Data (stream gaug	ge, monitoring well, aer	rial photos, pre	vious inspecti	ions), if available:
Remarks:				

VEGETATION

Tree Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
Sapling Stratum				
Plot Size: 15 feet		0/ 0	D	la di a di a a
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
Shrub Stratum				
Plot Size: 15 feet			1	1
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
Herb Stratum	Total Cover.			
Plot Size: 5 feet				
Scientific Name		% Cover	Dominant	Indicator
Poa pratensis		100	YES	FACU
r da pratoriolo			120	17.00
	Total Cover:	100		
Vine Stratum	,			
Plot Size: 30 feet Scientific Name		% Cover	Dominant	Indicator
Ocientine Hame		78 COVE	Dominant	mulcator
	Total Cover:			
Dominance Test Worksheet:	Prevalence Index	Worksheet:		
Number of Dominant Species	Total % Cover of:		Multiply by:	
that are OBL, FACW, or FAC:0_(A) Total Number of Dominant	OBL Species:	0 x	1 =	0
Species Across All Strata: 1 (B)	FACW Species:			0
Percent of Dominant Species that	FACULOR size			0
are OBL, FACW, or FAC:0_(A/B)	FACU Species:		4 = 40	
	UPL Species: Column Totals:	0 x ! 100 (A		0 0 (B)
		lence Index = B/A	·	``
	i ievai	ience index – Bir	4.0	
Hydrophytic Vegetation Indicators:				
1 - Rapid Test for Hydrophytic Vegetation				
2 - Dominance Test is > 50%	Hydrophytic Vege	tation Preser	nt? ✓ Yes	□No
☐ 3 - Prevalance is ≤ 3.0				
 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 				
☐ Problematic Hydrophytic Vegetation¹ (Explain)				
¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.				

SOIL								
Profile	Description:	(Descri	be to the depth	neede	d to do	cument	the indicator or	confirm the absence of indicators.)
Depth	Matrix		Red	Redox Features				
(in.)	Color (Moist)	%	Color (Moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4	2.5Y 3/2	100				None	CLAY LOAM	
4-16	2.5Y 4/1	93	10YR 5/6	7	С	M,PL	CLAY LOAM	Rock refusal @16"; 3 attempts
¹ Type:	C=Concentration	n, D=Dep	letion, RM=Reduc	ced Matri	x, CS=C	overed Sa	and or Coated Sand	Grains.
Hydri	c Soil Indicato	rs:						Indicators for Problematic Hydric Soils
His Bla Hyce Stra Stra Sar Sar Stri Dan	tosol (A1) tic Epipedon (A2) ck Histic (A3) drogen Sulfide (A4) atified Layers (A5) bleted Below Dark S ck Dark Surface (A1 ady Mucky Mineral (A1 ady Gleyed Matrix (S6) dy Redox (S5) pped Matrix (S6) k Surface (S7) (LRF	12) S1) S4) R R, MLR/	Thin Loan Loan V Depl Redc Redc Othe	Dark Suring Mucky my Gleyed eted Matri ox Dark Si eted Dark ox Depres er (Explain	face (S9) (I Mineral (F Matrix (F2 ix (F3) urface (F6) Surface (I sions (F8) in Remark	LRR R, ML 1) (LRR K, 2) 	L)	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)
Restr	ictive Layer F	Presen	t (if present):					
Type	:						Шу	dric Soil Present? ☑ Yes ☐ No
Dept	h (inches):						Пу	unic John Tesent: 🖭 Tes 🗀 NO
Remark	(S:							

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 Lo	ongitude: -74.53199 Datum: NAD1983
Soil Map Unit Name: Odessa and Rhinebeck silty clay loams, 6 to 12 percent slopes, e	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 r	needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sampling point	t locations, transects, important features, etc.
Hydrophytic Vegetation Present? ☐ Yes ✓ No Is the Sampled Area	2
Hydric Soil Present? Yes V No within a Wetland?	□ Yes 🗹 No
Wetland Hydrology Present? ☐ Yes ✓ No	
Remarks: Upland plot	
Field Wetland Classification: OTHER	
HYDROLOGY	
Wetland Hydrology Indicators	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1) Water Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2) Aquatic Fauna (B13) And Deposits (B15)	Drainage Patterns (B10)
Saturation (A3) Marl Deposits (B15) Water Marks (B1) Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16)
Outdiesd Philadelphia Posts (02)	Dry-Season Water Table (C2)
Processes of Reduced Iron (C4)	Crayiish Barrows (CO)
Dilli Deposits (B3)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Iron Deposits (B5) Recent Iron Reduction in Filled Soils (C6) Thick Muck Surface (C7)	Stunted or Stressed Plants (D1)
☐ Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks)	Geomorphic Position (D2)
Sparsely Vegetated Concave Surface (B8)	Shallow Aquitard (D3)
Grandely regulated contents canada (50)	Microtopographic Relief (D4)
	FAC-Neutral Test (D5)
	Other (Explain in Remarks)
Field Observations:	
Surface Water Present:	
Water Table Present:	
Saturation Present: Yes V No Depth (inches):	Wetland Hydrology Present? ☐ Yes ✓ No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspecti	ions), 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		T.		
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
Herb Stratum				
Plot Size: 5 feet				
Scientific Name		% Cover	Dominant	Indicator
Dactylis glomerata		45	YES	FACU
Taraxacum officinale		5	NO	FACU
Bromus Inermis		20	YES	FACU
Trifolium pratense		5	NO	FACU
Trifolium repens		5	NO	FACU
Phleum pratense		20	YES	FACU
Galium mollugo		5	NO	UPL
	Total Cover:	105		
Vine Stratum				
Plot Size: 30 feet				
Scientific Name		% Cover	Dominant	Indicator
	Total Cover:			
	Total Cover:			

that are Total Ni Species Percent are OBI	r of Dominant Spe OBL, FACW, or F umber of Dominant Across All Strata t of Dominant Spe L, FACW, or FAC:	ecies FAC: nt i: cies tha	0 (A) 3 (B) 0 (A/B))		Total OBL S FACW FAC S FACU UPL S	alence Index \ % Cover of: pecies: pecies: Species: pecies: pecies: pecies: pecies: pecies: prevale	Worksheet: 0 x 1 = 0 0 x 2 = 0 0 x 3 = 0 100 x 4 = 400 5 x 5 = 25 105 (A) 425 (B) nce Index = B/A = 4.05	
Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is > 50% 3 - Prevalance is ≤ 3.0 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.			esent	Hydro	ophytic Vegeta	ation Present? ☐ Yes 🗹 No			
Remarks	s:								
Profile	Description: (I	Descril	pe to the depth	neede	d to do	ument	the indicator or	confirm the absence of indicators.)	
Depth	Matrix		Redo	x Featu	ires	T			
<u> </u>		Descril %	-			Loc ²	the indicator or Texture	confirm the absence of indicators.) Remarks	
Depth	Matrix		Redo	x Featu	ires	T			
Depth (in.) 0-14	Matrix Color (Moist) 2.5Y 4/3	% 98	Redo:	% Featu % 2	Type ¹	Loc ²	Texture CLAY LOAM	Remarks Rock refusal @14"	ix.
Depth (in.) 0-14	Matrix Color (Moist) 2.5Y 4/3	% 98 D=Dep	Redo Color (Moist) 10YR 6/6	% Featu % 2	Type ¹	Loc ²	Texture CLAY LOAM	Remarks Rock refusal @14"	rix.
Depth (in.) 0-14 1 Type: Hydrid Hist Hist Hydrid Stra Dep Thid Sar Sar Stri	Matrix Color (Moist) 2.5Y 4/3 C=Concentration,	% 98 D=Depi	Redox Color (Moist) 10YR 6/6 letion, RM=Reduce Polyva Thin D Loamy Loamy Deplet Redox Deplet Redox Other	x Featu % 2 ed Matri alue Belo Dark Surf y Mucky y Gleyed ted Matri x Dark Su ted Dark x Depress	Type 1 C x, CS=Co w Surface ace (S9) (I Mineral (F- Matrix (F2	Loc² M overed Sa (S8) (LRR LRR R, ML I) (LRR K,)	Texture CLAY LOAM and or Coated San R, MLRA 149B) RA 149B)	Remarks Rock refusal @14" d Grains. ² Location: PL=Pore Lining, M=Matr	rix.

Restrictive Layer Present (if present):			
Type: Depth (inches):	Hydric Soil Present?	☐ Yes	☑ No
Remarks:			



SC1QW426_061913_UPL1W.jpg Photo Name: Note: SC-1Q-W426-UPL1

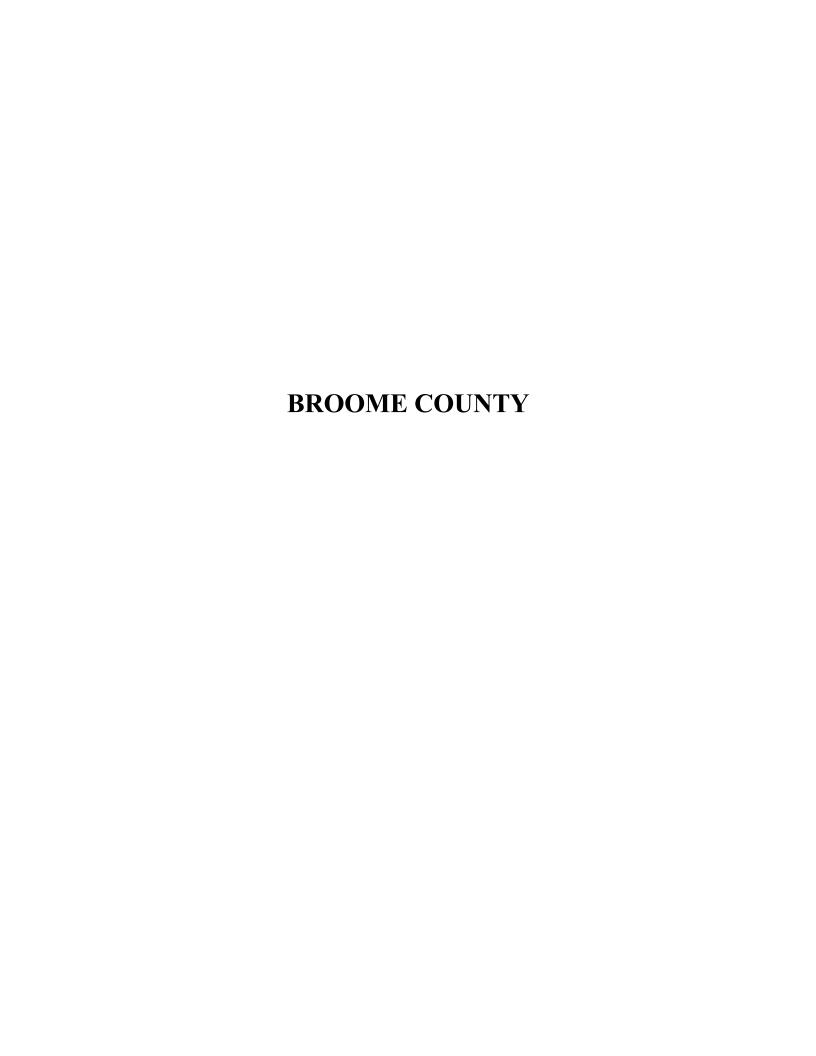
WETLAND DELINEATION REPORT SUBMITTAL NO. 3

ATTACHMENT 3

CONSTITUTION PIPELINE



WATERBODY DATA SHEETS AND PHOTOGRAPHS



95 State Road Sagamore Beach, MA 02662



Waterbody Data Form

Feature ID: BR-1C-S210

Feature Name:

	Associated Wetland ID: BR-1C-W263
☐ Centerline ✓ Re-Route ☐ Access Road ☐ Ancillary Fac	cility
Centerline ID:	Facility Description:
Date: Client/Project Name:	Latitude/Longitude:
2014/04/25 Constitution	42.020878 , -75.52564
Team: State/County:	Quad Name:
1A NY - Broome	Gulf Summit
Logbook No.: Logbook Page No.: Tract No.:	
15 12 ALT-B-NY-BR-012.0)00
Waterbody Type: ☐ Lake ☐ Pond ☐ Borrow Pit ✓ Stream	□ Ar Ditah □ Other
	Ag. Ditch Other
Stream Flow: ☐ Fast ☐ Moderate ☑ Slow ☐ Very	
Flow Type: Perennial (Flows year round)	✓ Intermittent (Flows <3 months)
Seasonal (Continuous flow ≥ 3 months)	☐ Ephemeral (Flows only in response to rainfall)
Direction of Flow: N NE E SE S	☐ SW 📝 W ☐ NW ☐ No Flow
OHWM Width (ft.): 2	
Sinuosity: ✓ Braided Meandering S	Straight N/A
Stream Width (ft.): 2 Water Sur	face (At Crossing Location): 2
Stream Depth (in.): □ 0 □ 1-3 □ 3-6 ☑ 6-12 □ 12	2-18
OHWM Indicators:	
BENT, MATTED OR MISSING VEGETATION	
SCOUR	
Bank Height (ft.):	6-8
(Looking Downstroam)	_
Rignt: ☑ 0-2 ☐ 2-4 ☐ 4-6 ☐	6-8
Bank Slope (%): Left: 4:1	
(Looking Downstream) Right: 4:1	
O Product Arrest area	
Qualitative Attributes	
Water Appearance: ✓ Clear	ace Floating Algalmats
☐ Slightly Turbid ☐ Very Turbid ☐ Greenish Colo	
☐ Signify raible ☐ Very raible ☐ Greenish Cold	Obvious Surface Scurii
Stream Substrate %:	
70% MUCK	
10% OTHER - Stone	
20% VECELATION	

95 State Road



Sagamore Beach, MA 02662

Aquatic Habitats:			
☐ Sand Bar	☐ Gravel Riffles	In-stream Emergent Plants	% Cover: 20
☐ Gravel Bar	☐ Deep Pools	☐ In-stream Submerged Plants	% Cover:
☐ Mud Bar	☐ Bank Root Systems	✓ Fringing Wetlands¹	
☐ Undercut Banks	Overhanging Trees/Shrubs	☐ None	
¹Characteristics:	PEM/PSS		
Aquatic Organisms Ol	oserved:		
FROGS			
FISH (JUVENILE)			
WATERFOWL			
Tributary Condition:	✓ Natural Artificial (Man-	Made)	
Channel Condition:	☐ Channelization/Braiding	☐ Unnatural Straightening	☐ Downcutting
	☐ Dikes/Berms	Excessive Bank Erosion	✓ N/A
Habitat Characteristic	s, Aquatic, and Terrestrial Diversity De	escription:	
Stream Quality:] High ✓ Moderate ☐ Low		
Comments:	_		





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

95 State Road Sagamore Beach, MA 02662



Waterbody Data Form

Feature ID: BR-1C-S211

Feature Name:

			A	ssociated Wetland ID: BR-1C-W263
✓ Centerline	e-Route Access Ro	oad 🗌 Ancillary Facility	y Alternative Route	☐ Other
Centerline ID:		Fa	acility Description:	
Date:	Client/Project Name:		La	atitude/Longitude:
2014/04/25	Constitution			2.020431 , -75.52584
Team:	State/County:			Quad Name:
1A	NY - Broome			Gulf Summit
Logbook No.: Lo	gbook Page No.:	Tract No.: ALT-B-NY-BR-012.000		
10 10	,	ALT-D-INT-DIX-012.000		
Waterbody Type:] Lake 🔲 Pond 🔲 B	orrow Pit 🗸 Stream [Ag. Ditch Other	
Stream Flow:	Fast 🗹 Moderate	Slow Very Slo	w None	
Flow Type:	Perennial (Flows year	round)	Intermittent (Flows <3 mo	onths) None
	Seasonal (Continuous	flow ≥ 3 months)	Ephemeral (Flows only in	response to rainfall)
Direction of Flow:] N	□ SE □ S □	□ SW 📝 W 🗆 NW	☐ No Flow
OHWM Width (ft.): 9				
Sinuosity:	Braided ✓ N	Meandering Stra	ight	
Stream Width (ft.): 1	2	Water Surface	e (At Crossing Location):	9
Stream Depth (in.):	□ 0 □ 1-3	3-6 🗌 6-12 🔲 12-18	3 🗌 18-24 📗 24-36 📗	□ 36-48 □ 48-60 □ 60+
OHWM Indicators: CLEAR NATURAL LITTER AND DEB SCOUR				
Bank Height (ft.):	Left: ✓ 0-2	2-4 4-6 6-8	□ 8+	
(Looking Downstream)	Right: 🗹 0-2	2-4	□ 8+	
Bank Slope (%):	Left: Ver			
(Looking Downstream)	Right: 3:1			
Qualitative Attribu	ites			
Water Appearance:				
✓ Clear	☐ Turbid	☐ Sheen on Surface	e	ats
☐ Slightly Turbid	Very Turbid	Greenish Color	Obvious Surface	Scum
☐ No Flow	Other:			
Stream Substrate %:				
65% COB	BLES			
20% GRA	VEL			
10% SANI	DS			
5% SILT	9			

95 State Road



Sagamore Beach, MA 02662

Aquatic Habitats: Sand Bar Gravel Bar Mud Bar	☐ Gravel Riffles ☐ Deep Pools ☑ Bank Root Systems	☐ In-stream Emergent Plants ☐ In-stream Submerged Plants ✔ Fringing Wetlands¹	% Cover: % Cover:
Undercut Banks	✓ Overhanging Trees/Shrubs	None	
	SS		
Aquatic Organisms Obs	served:		
FROGS			
FISH (JUVENILE)			
INVERTEBRATES			
Tributana Canditiana	Network Autificial /Man	Mada)	
Tributary Condition:	✓ Natural ☐ Artificial (Man-		
Channel Condition:	Channelization/Braiding	Unnatural Straightening	Downcutting
	☐ Dikes/Berms	Excessive Bank Erosion	✓ N/A
Habitat Characteristics,	Aquatic, and Terrestrial Diversity De	escription:	
Stream Quality:	High ✓ Moderate ☐ Low		
Comments: There is a lot of trash in stream, along banks, and in wetland.			





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

95 State Road Sagamore Beach, MA 02662

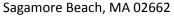


Waterbody Data Form

Feature ID: BR-1C-S230 Feature Name:

Associated Wetland ID:
☐ Centerline ☑ Re-Route ☐ Access Road ☐ Ancillary Facility ☐ Alternative Route ☐ Other
Centerline ID: Facility Description:
Primary Route
Date: Client/Project Name: Latitude/Longitude:
2013/10/09 Constitution 42.009816 , -75.52627
Team: State/County: Quad Name:
1C NY - Broome Gulf Summit
Logbook No.: Logbook Page No.: Tract No.: 13
13 22 ALT-B-NY-BR-002.001
Waterbody Type: ☐ Lake ☐ Pond ☐ Borrow Pit ✔ Stream ☐ Ag. Ditch ☐ Other
Stream Flow: Fast Moderate Slow Very Slow None
Flow Type: Perennial (Flows year round) Intermittent (Flows <3 months) None
☐ Seasonal (Continuous flow ≥ 3 months)
Direction of Flow: N NE E SE S SW W NW No Flow
OHWM Width (ft.): 8
Sinuosity: ☐ Braided ☑ Meandering ☐ Straight ☐ N/A
Stream Width (ft.): 10 Water Surface (At Crossing Location): 4
Stream Depth (in.): □ 0 ✓ 1-3 □ 3-6 □ 6-12 □ 12-18 □ 18-24 □ 24-36 □ 36-48 □ 48-60 □ 60+
OHWM Indicators:
LEAF LITTER DISTURBED
SCOUR
Bank Height (ft.): Left: ✓ 0-2 ☐ 2-4 ☐ 4-6 ☐ 6-8 ☐ 8+
(Looking Downstream) Right: ✓ 0-2
Bank Slope (%): Left:
(Looking Downstream)
Right:
Qualitative Attributes
Water Appearance:
✓ Clear □ Turbid □ Sheen on Surface □ Floating Algalmats
☐ Slightly Turbid ☐ Very Turbid ☐ Greenish Color ☐ Obvious Surface Scum
□ No Flow □ Other:
Stream Substrate %:
75% COBBLES
5% OTHER - BOULDERS
15% SANDS
5% SILTS
Aquatic Habitats:
☐ Sand Bar ☐ Gravel Riffles ☐ In-stream Emergent Plants % Cover:
☐ Gravel Bar ☐ Deep Pools ☐ In-stream Submerged Plants % Cover:
☐ Mud Bar ☐ Bank Root Systems ☐ Fringing Wetlands¹
☐ Undercut Banks ☐ Overhanging Trees/Shrubs ☑ None
¹Characteristics:
Aquatic Organisms Observed:
NONE

95 State Road





Tributary Condition: Natural Artificial (Man-Made) Manipulated

Channel Condition: Channelization/Braiding Unnatural Straightening Downcutting
Dikes/Berms Excessive Bank Erosion

Habitat Characteristics, Aquatic, and Terrestrial Diversity Description:

Stream Quality: High Moderate Low

Comments:





Photo Name: BR1CS230_100913_3NE.jpg Note: BR-1C-S230



BR1CS230_100913_2SE.jpg Photo Name:

Note: BR-1C-S230



BR1CS230_100913_1NW.jpg Photo Name:

95 State Road Sagamore Beach, MA 02662

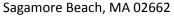


Waterbody Data Form

Feature ID: BR-1C-S230A Feature Name:

Contading G De Davits C Assess Deed C Assillant For	Associated Wetland ID:
☐ Centerline ☑ Re-Route ☐ Access Road ☐ Ancillary Fac Centerline ID:	ility Alternative Route Other Facility Description:
Primary Route	Tacility Description.
Date: Client/Project Name: 2013/10/09 Constitution	Latitude/Longitude: 42.009838 , -75.52623
Team: State/County: 1C NY - Broome	Quad Name: Gulf Summit
Logbook No.: Logbook Page No.: Tract No.: ALT-B-NY-BR-002.0	001
Weterhealt Time: Dead Dead Dearwin Dit of Chrones	A a Ditah
Waterbody Type: ☐ Lake ☐ Pond ☐ Borrow Pit ✓ Stream Stream Flow: ☐ Fast ☐ Moderate ☐ Slow ✓ Very S	Ag. Ditch Other
Flow Type: ☐ Perennial (Flows year round) ☐ Seasonal (Continuous flow ≥ 3 months)	☐ Intermittent (Flows <3 months) ☐ None ☐ Ephemeral (Flows only in response to rainfall)
Direction of Flow: N NE E SE S	SW W NW No Flow
OHWM Width (ft.): 2	SW W WIND NO Flow
	straight \precedent N/A
	face (At Crossing Location): 0.5
	-18
OHWM Indicators:	
LEAF LITTER DISTURBED	
SCOUR	
	6-8 🗌 8+
(Looking Downstream) Right: ✓ 0-2 ☐ 2-4 ☐ 4-6 ☐ 6	6-8 🗌 8+
Bank Slope (%): Left:	
(Looking Downstream) Right:	
Qualitative Attributes	
Water Appearance:	
✓ Clear	ace
☐ Slightly Turbid ☐ Very Turbid ☐ Greenish Color	Dovious Surface Scum
☐ No Flow ☐ Other:	
Stream Substrate %:	
80% COBBLES	
5% SANDS 15% SILTS	
Aquatic Habitats: ☐ Sand Bar ☐ Gravel Riffles ☐ In-str	ream Emergent Plants % Cover:
	ream Emergent Plants % Cover: ream Submerged Plants % Cover:
<u> </u>	ging Wetlands ¹
☐ Undercut Banks ☐ Overhanging Trees/Shrubs ☑ None	• •
¹Characteristics:	
Aquatic Organisms Observed:	
NONE	

95 State Road





Tributary Condition: Natural Artificial (Man-Made) Manipulated

Channel Condition: Channelization/Braiding Unnatural Straightening Downcutting
Dikes/Berms Excessive Bank Erosion

Habitat Characteristics, Aquatic, and Terrestrial Diversity Description:

Stream Quality: High Moderate Low

Comments:





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

95 State Road Sagamore Beach, MA 02662



Waterbody Data Form

Feature ID: BR-1S-S207C Feature Name:

		Associated Wetland ID:
☐ Centerline ✓ Re-	Route Access Road Ancillary Facility Alternative Route	ute
Centerline ID:	Facility Description:	
Primary Route		
	Client/Project Name:	Latitude/Longitude:
2013/10/09	Constitution	42.011192 , -75.52571
Team:	State/County:	Quad Name:
1C	NY - Broome	Gulf Summit
_	oook Page No.: Tract No.:	
13 24	ALT-B-NY-BR-002.001	
Waterbody Type: L	_ake	er
Stream Flow:	Fast ☐ Moderate ☑ Slow ☐ Very Slow ☐ None	
Flow Type:	Perennial (Flows year round)	3 months) None
_ 	Seasonal (Continuous flow ≥ 3 months) ☐ Ephemeral (Flows or	nly in response to rainfall)
Direction of Flow:		NW No Flow
	THE DE DE DOWN	TWV TWO Flow
OHWM Width (ft.): 3		
Sinuosity:	Braided ✓ Meandering ☐ Straight ☐ N/A	
Stream Width (ft.): 4	Water Surface (At Crossing Location	n): 3
Stream Depth (in.):] 0 📝 1-3 🗌 3-6 📗 6-12 🔲 12-18 🔲 18-24 🔲 24-3	6 🗌 36-48 🗎 48-60 🗎 60+
OHWM Indicators: LEAF LITTER DISTULITER AND DEBRUSCOUR		
Bank Height (ft.):	Left: ☑ 0-2 ☐ 2-4 ☐ 4-6 ☐ 6-8 ☐ 8+	
(Looking Downstream)	Right: ☑ 0-2 ☐ 2-4 ☐ 4-6 ☐ 6-8 ☐ 8+	
Bank Slope (%):	Left:	
(Looking Downstream)	Right:	
	Ngnt.	
Qualitative Attribute	es	
Water Appearance:		
✓ Clear	☐ Turbid ☐ Sheen on Surface ☐ Floating Alg	almats
☐ Slightly Turbid	☐ Very Turbid ☐ Greenish Color ☐ Obvious Su	rface Scum
☐ No Flow	Other:	
Stream Substrate %:		
60% COBBL	.ES	
25% GRAVE		
10% SANDS		
5% SILTS		

95 State Road



Sagamore Beach, MA 02662

Aquatic Habitats:			
☐ Sand Bar	☐ Gravel Riffles	☐ In-stream Emergent Plants	% Cover:
☐ Gravel Bar	☐ Deep Pools	☐ In-stream Submerged Plants	% Cover:
☐ Mud Bar	☐ Bank Root Systems	✓ Fringing Wetlands¹	
Undercut Banks	✓ Overhanging Trees/Shrubs	☐ None	
¹Characteristics:			
Aquatic Organisms Obs	served:		
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 De	escription:	
Stream Quality:	High ✓ Moderate ☐ Low		
	High ✓ Moderate ☐ Low		
Comments:			





Photo Name: BR1SS207C_100913_3N.jpg



Photo Name: BR1SS207C_100913_2W.jpg Note: BR-1S-S207C



Photo Name: BR1SS207C_100913_1E.jpg Note: BR-1S-S207C

95 State Road Sagamore Beach, MA 02662



Waterbody Data Form

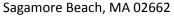
Feature ID: BR-1S-S207D

Feature Name:

Associated Wetland ID: BR-1C-W260

		Associated Wetland ID: BR-1C-W260
	Re-Route Access Road Ancillary Fac	
Centerline ID:		Facility Description:
Primary Route		
Date:	Client/Project Name:	Latitude/Longitude:
2013/10/09	Constitution	42.011114 , -75.52587
Team:	State/County:	Quad Name:
1C	NY - Broome	Gulf Summit
Logbook No.:	Logbook Page No.: Tract No.:	<u> </u>
13	25 ALT-B-NY-BR-002.0	001
	ALI BITT BIT GOZ.	~ -
Waterbody Type:	☐ Lake ☐ Pond ☐ Borrow Pit ✔ Stream	☐ Ag. Ditch ☐ Other
Stream Flow:	Fast Moderate Slow Very	
Flow Type:		
Flow Type:	Perennial (Flows year round)	☐ Intermittent (Flows <3 months) ☐ None
	Seasonal (Continuous flow ≥ 3 months)	✓ Ephemeral (Flows only in response to rainfall)
Direction of Flow:	□N □NE □E □SE □S	✓ SW W NW No Flow
OHWM Width (ft.)		
Sinuosity:	☐ Braided	Straight \ \ \ \ N/A
Stream Width (ft.)		face (At Crossing Location): 0
Stream Depth (in.): v 0	2-18
OHWM Indicators		
LEAF LITTER		
	DISTORBED	
SCOUR		
Bank Height (ft.):	Left: ☑ 0-2 ☐ 2-4 ☐ 4-6 ☐	6-8 8+
(Looking Downstre	am)	_
	Right: 🗹 0-2 🗌 2-4 🗌 4-6 🗌	6-8
Bank Slope (%):	Left:	
(Looking Downstre	am) Right:	
Qualitative Attr	ributes	
Water Appearance		
Clear	□ Turbid □ Sheen on Surf	face
Slightly Turbic		
✓ No Flow	Other:	- Obvious Surface Seam
Stream Substrate		
50% C	COBBLES	
30% G	GRAVEL	
5% S	SANDS	
15% S	SANDS	
.070	,	
Aquatic Habitats:		
☐ Sand Bar		tream Emergent Plants % Cover:
☐ Gravel Bar	☐ Deep Pools ☐ In-st	tream Submerged Plants % Cover:
☐ Mud Bar	☐ Bank Root Systems ✓ Fring	ging Wetlands ¹
Undercut Ban	- ·	~ · ·
¹Characteristics:	PFO	
Aquatic Organism	ns Observed:	
NONE		

95 State Road





Tributary Condition: Natural Artificial (Man-Made) Manipulated

Channel Condition: Channelization/Braiding Unnatural Straightening Downcutting
Dikes/Berms Excessive Bank Erosion

Habitat Characteristics, Aquatic, and Terrestrial Diversity Description:

Stream Quality: High Moderate Low

Comments:





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

95 State Road Sagamore Beach, MA 02662



Waterbody Data Form

Feature ID: BR-1S-S207E

Feature Name:

Associated Wetland ID: BR-1C-W26
☐ Centerline ☑ Re-Route ☐ Access Road ☐ Ancillary Facility ☐ Alternative Route ☐ Other
Centerline ID: Facility Description:
Primary Route
Date: Client/Project Name: Latitude/Longitude:
2013/10/09 Constitution 42.011207 , -75.52590
Team: State/County: Quad Name:
1C NY - Broome Gulf Summit
Logbook No.: Logbook Page No.: Tract No.:
13 26 ALT-B-NY-BR-002.001
Waterbody Type: ☐ Lake ☐ Pond ☐ Borrow Pit ☑ Stream ☐ Ag. Ditch ☐ Other
Stream Flow: ☐ Fast ☐ Moderate ☑ Slow ☐ Very Slow ☐ None
Flow Type: Perennial (Flows year round) Intermittent (Flows <3 months) None
☐ Seasonal (Continuous flow ≥ 3 months)
Direction of Flow: □ N □ NE □ E □ SE □ S □ SW ▼ W □ NW □ No Flow
OHWM Width (ft.): 3
Sinuosity: ☐ Braided ☑ Meandering ☐ Straight ☐ N/A
Stream Width (ft.): 4 Water Surface (At Crossing Location): 2
Stream Depth (in.): □ 0
OHWM Indicators: LEAF LITTER DISTURBED SCOUR
Bank Height (ft.): Left: ✓ 0-2
(Looking Downstream) Right: ✓ 0-2 □ 2-4 □ 4-6 □ 6-8 □ 8+
Bank Slope (%): Left:
(Looking Downstream) Right:
rugit.
Qualitative Attributes
Water Appearance:
✓ Clear ☐ Turbid ☐ Sheen on Surface ☐ Floating Algalmats
☐ Slightly Turbid ☐ Very Turbid ☐ Greenish Color ☐ Obvious Surface Scum
☐ No Flow ☐ Other:
Stream Substrate %:
50% COBBLES
30% GRAVEL
10% SANDS
5% SILTS
5% VEGETATION

95 State Road



Sagamore Beach, MA 02662

Aquatic Habitats:								
Sand Bar	☐ Gravel Riffles	☐ In-stream Emergent Plants	% Cover: 5					
☐ Gravel Bar	☐ Deep Pools	☐ In-stream Submerged Plants	% Cover:					
☐ Mud Bar	☐ Bank Root Systems	✓ Fringing Wetlands¹						
☐ Undercut Banks	Overhanging Trees/Shrubs	☐ None						
¹Characteristics: F	PFO							
Aquatic Organisms Obs	served:							
NONE								
Tributary Condition:	✓ Natural ☐ Artificial (Man-	Made)						
Channel Condition:	☐ Channelization/Braiding	Unnatural Straightening	☐ Downcutting					
	☐ Dikes/Berms	Excessive Bank Erosion	✓ N/A					
Habitat Characteristics	, Aquatic, and Terrestrial Diversity De	escription:						
Stream Quality:	High ✓ Moderate ☐ Low							
Comments:								





Photo Name: BR1SS207E_100913_3S.jpg

Note: BR-1S-S207E



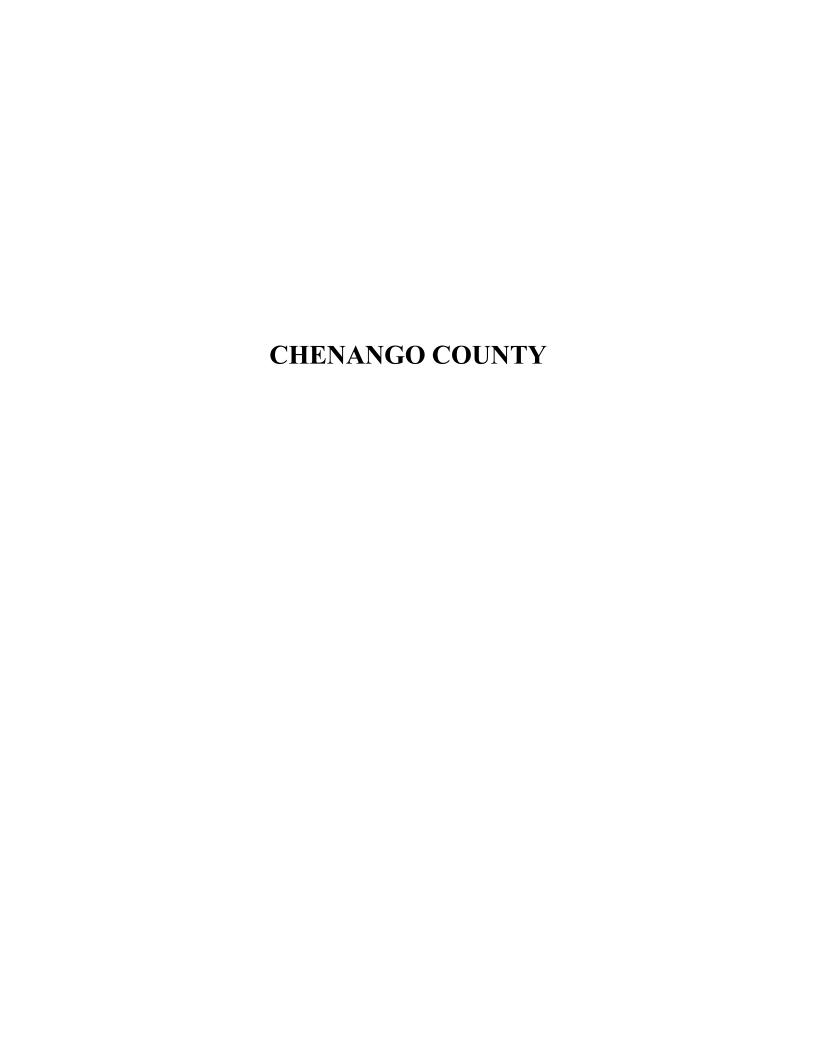
Photo Name: BR1SS207E_100913_2W.jpg

Note: BR-1S-S207E



Photo Name: BR1SS207E_100913_1E.jpg

Note: BR-1S-S207E



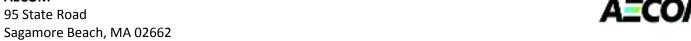
95 State Road Sagamore Beach, MA 02662



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: Client/Project Name: Latitude/Longitude:
2014/06/06 Constitution 42.261584, -75.46229
Team: State/County: Quad Name:
1A NY - Chenango Sidney
Logbook No.: Logbook Page No.: Tract No.:
20143 26 NY-CH-026
Waterbody Type: ☐ Lake ☐ Pond ☐ Borrow Pit ✓ Stream ☐ Ag. Ditch ☐ Other
Stream Flow: ☐ Fast ☐ Moderate ☐ Slow ☐ Very Slow ☑ None
Flow Type: Perennial (Flows year round) Intermittent (Flows <3 months) None
☐ Seasonal (Continuous flow ≥ 3 months) ☐ Ephemeral (Flows only in response to rainfall)
Direction of Flow: ✓ N NE E SE S SW W NW No Flow
OHWM Width (ft.): 12
Sinuosity: ☐ Braided ☑ Meandering ☐ Straight ☐ N/A
Stream Width (ft.): 12 Water Surface (At Crossing Location): 0
Stream Depth (in.): ✓ 0 1-3 3-6 6-12 12-18 18-24 24-36 36-48 48-60 60+
OHWM Indicators:
ABRUPT PLANT COMMUNITY CHANGE
LITTER AND DEBRIS
SOIL CHARACTER CHANGES
WRACK LINE
Bank Height (ft.): Left: O-2
Right: 0-2 🗹 2-4 0 4-6 0 6-8 0 8+
Bank Slope (%): Left: 40%
(Looking Downstream) Right: 40%
Qualitative Attributes
Water Appearance:
☐ Clear ☐ Turbid ☐ Sheen on Surface ☐ Floating Algalmats ☐ Slightly Turbid ☐ Greenish Color ☐ Obvious Surface Scum
✓ No Flow Other:
Stream Substrate %:
40% OTHER - Loam
60% SANDS
Aquatic Habitats:
☐ Sand Bar ☐ Gravel Riffles ☐ In-stream Emergent Plants % Cover:
Gravel Bar Deep Pools In-stream Submerged Plants % Cover:
☐ Mud Bar ☐ Bank Root Systems ☐ Fringing Wetlands¹
☐ Undercut Banks ✓ Overhanging Trees/Shrubs ☐ None
¹Characteristics:
Aquatic Organisms Observed:
NONE



	-	
		•
	JIV	

Tributary Condition:	✓ Natural ☐ Artificial (Mar	n-Made) 🗌 Manipulated		
Channel Condition:	☐ Channelization/Braiding	Unnatural Straightening	Downcutting	
	☐ Dikes/Berms	Excessive Bank Erosion	□ N/A	
Habitat Characteristic Floodplain	cs, Aquatic, and Terrestrial Diversity I	Description:		
Stream Quality: [Comments:	☐ High ✓ Moderate ☐ Low			





Photo Name: CH1CS010F_060614_1S.jpg

Note: CH-1C-S010F



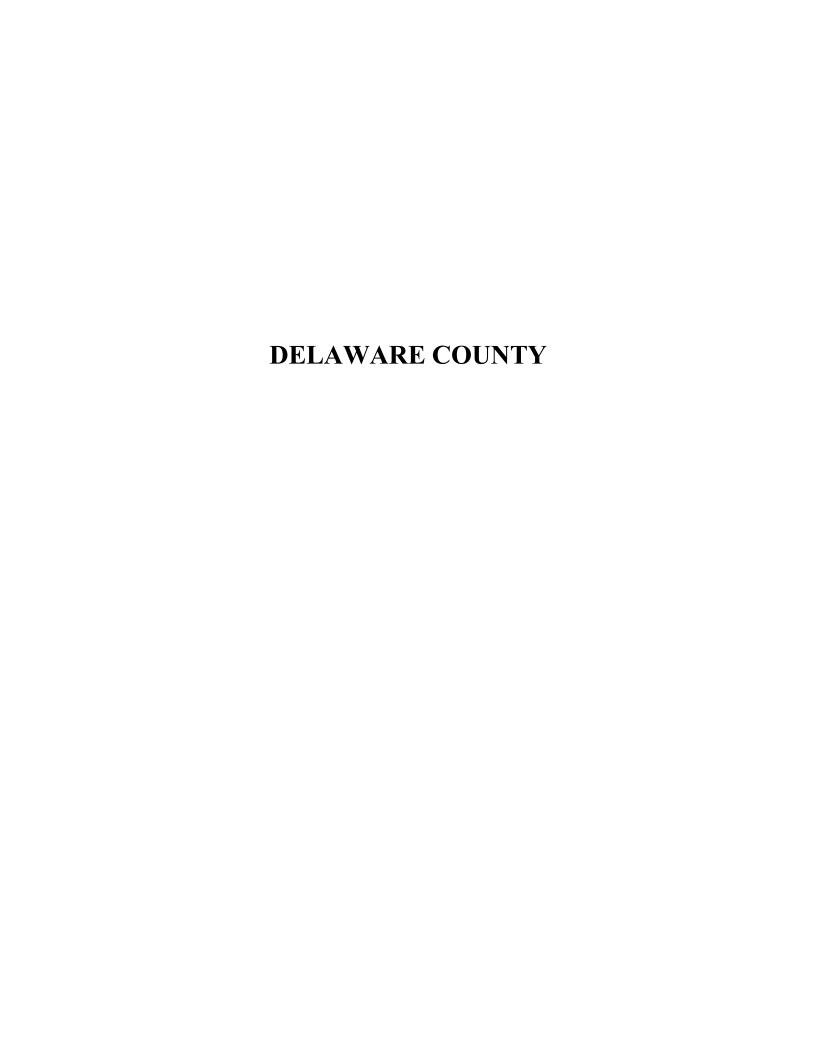
Photo Name: CH1CS010F_060614_2N.jpg

Note: CH-1C-S010F



Photo Name: CH1CS010F_060614_3W.jpg

Note: CH-1C-S010F



95 State Road Sagamore Beach, MA 02662

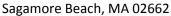


Waterbody Data Form

Feature ID: DE-1A-S297

	Associated Wetland ID: DE-1A-W463
☐ Centerline ☐ Re-Route ✔ Access Road ☐	Ancillary Facility
Centerline ID:	Facility Description:
Date: Client/Project Name: 2014/05/20 Constitution	Latitude/Longitude: 42.353352 , -75.20543
Team: State/County: 1A NY - Delaware	Quad Name: Franklin
Logbook No.: Logbook Page No.: Tract No. 20142 30 UA-NY	o.: -DE-063
Waterbody Type:	✓ Stream ☐ Ag. Ditch ☐ Other
Stream Flow: ☐ Fast ✓ Moderate ☐ Slow	Very Slow None
Flow Type: Perennial (Flows year round)	✓ Intermittent (Flows <3 months) □ None
Seasonal (Continuous flow ≥ 3 r	months) Ephemeral (Flows only in response to rainfall)
Direction of Flow: N NE E SE	S SW W NW No Flow
OHWM Width (ft.): 4	
Sinuosity: Braided • Meandering	ng Straight N/A
Stream Width (ft.): 4	Water Surface (At Crossing Location): 2
Stream Depth (in.): □ 0	6-12
OHWM Indicators:	
ABRUPT PLANT COMMUNITY CHANGE	
SOIL CHARACTER CHANGES	
Bank Height (ft.): Left: 🗸 0-2 🗌 2-4 [(Looking Downstream)	4-6 6-8 8+
Rignt: ☑ 0-2 ☐ 2-4 ☐	4-6 6-8 8+
Bank Slope (%): (Looking Downstream)	
Right: 90	
Qualitative Attributes	
Water Appearance:	
	heen on Surface
☐ Slightly Turbid ☐ Very Turbid ☐ G	Greenish Color Obvious Surface Scum
☐ No Flow ☐ Other:	
Stream Substrate %:	
50% GRAVEL	
50% SANDS	
Aquatic Habitats:	
☐ Sand Bar ☐ Gravel Riffles	☐ In-stream Emergent Plants % Cover:
☐ Gravel Bar ☐ Deep Pools	☐ In-stream Submerged Plants % Cover:
☐ Mud Bar ☐ Bank Root Systems	✓ Fringing Wetlands¹
✓ Undercut Banks ✓ Overhanging Trees/Shrubs	s None
¹Characteristics: PFO	
Aquatic Organisms Observed:	
NONE	

95 State Road





Tributary Condition: ☐ Natural ☐ Artificial (Man-Made) ✓ Manipulated **Channel Condition:** ☐ Channelization/Braiding ☐ Unnatural Straightening Downcutting ☐ Excessive Bank Erosion ☐ Dikes/Berms ✓ N/A **Habitat Characteristics, Aquatic, and Terrestrial Diversity Description:** Excavated in sections Stream Quality: High Comments:





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

95 State Road Sagamore Beach, MA 02662



Waterbody Data Form

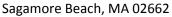
Feature ID: DE-1A-S301

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: Client/Project Name: Latitude/Longitude:	
2014/05/30 Constitution 42.354578, -75.23166	
Team: State/County: Quad Name: NY - Delaware Franklin	
1A NY - Delaware Franklin Logbook No.: Logbook Page No.: Tract No.:	
2 138 NY-DE-050.000	
Waterbody Type: ☐ Lake ☐ Pond ☐ Borrow Pit ✔ Stream ☐ Ag. Ditch ☐ Other	
Stream Flow: ☐ Fast ☐ Moderate ☑ Slow ☐ Very Slow ☐ None	
Flow Type: Perennial (Flows year round) Intermittent (Flows <3 months) None	
☐ Seasonal (Continuous flow ≥ 3 months) ☐ Ephemeral (Flows only in response to rainfall)	
Direction of Flow: ✓ N NE E SE S SW W NW No Flow	
OHWM Width (ft.): 8	
Sinuosity: ☐ Braided ☑ Meandering ☐ Straight ☐ N/A	
Stream Width (ft.): 8 Water Surface (At Crossing Location): 2	
Stream Depth (in.): □ 0	
OHWM Indicators:	-
ABRUPT PLANT COMMUNITY CHANGE	
SOIL CHARACTER CHANGES	
Bank Height (ft.): Left: ✓ 0-2 2-4 4-6 6-8 8+	
(Looking Downstream)	_
Bank Slope (%): Left: 20 (Looking Downstream)	
Right: 20	
Qualitative Attributes	
Water Appearance:	
✓ Clear □ Turbid □ Sheen on Surface □ Floating Algalmats	
☐ Slightly Turbid ☐ Very Turbid ☐ Greenish Color ☐ Obvious Surface Scum	
☐ No Flow ☐ Other:	
Stream Substrate %:	
30% MUCK - organic	
70% SILTS	
Aquatic Habitats:	
☐ Sand Bar ☐ Gravel Riffles ☐ In-stream Emergent Plants % Cover:	
☐ Gravel Bar ☐ Deep Pools ☐ In-stream Submerged Plants % Cover:	
☐ Mud Bar ☐ Bank Root Systems ✔ Fringing Wetlands¹	
☐ Undercut Banks ✓ Overhanging Trees/Shrubs ☐ None	
¹Characteristics: PFO	
Aquatic Organisms Observed:	
NONE	

95 State Road





Tributary Condition: ✓ Natural ☐ Artificial (Man-Made) Manipulated **Channel Condition:** ☐ Channelization/Braiding ☐ Unnatural Straightening Downcutting ☐ Excessive Bank Erosion ☐ Dikes/Berms ✓ N/A **Habitat Characteristics, Aquatic, and Terrestrial Diversity Description:** Stream Quality: High Comments: Diffuse





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

95 State Road Sagamore Beach, MA 02662

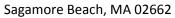


Waterbody Data Form

Feature ID: DE-1B-S263A

							Asso	ciated Wetl	and ID: DE	-1B-W327
✓ Centerline	Re-Route	Access Ro	ad 🗌 Ancillaı	ry Facili	ty 🗌 Alter	native Route	e 🗌	Other		
Centerline ID:				F	acility Descrip	otion:				
Primary Route										
Date:	Client	Project Name:					Latitud	le/Longitude:		
2013/08/12	Cons	titution					42.42	3880 , -74.96	3536	
Team:		State/County:					Qu	ad Name:		
1B		NY - Delaware					W	est Davenpo	rt	
Logbook No.:	Logbook P	age No.:	Tract No.:							
3	12		NY-DE-141.00	6						
Waterbody Type:	Lake	☐ Pond ☐ Bo	orrow Pit 🗸 St	ream	Ag. Ditch	n	r			
Stream Flow:	Fast	✓ Moderate	Slow	Very SI	ow No	ne				
Flow Type:	Pereni	nial (Flows year	round)	Į.	Intermitter	nt (Flows <3	months	3)	□ None	
		nal (Continuous t	•	_		-		onse to rair	່ າfall)	
Discation of Flour				_				·		
Direction of Flow:	□ N	✓ NE	☐ SE ☐] S	SW	W N	IW [No Flow		
OHWM Width (ft.):	3									
Sinuosity:	Braide	d 🔲 N	leandering	✓ Str	aight	□ N/A				
Stream Width (ft.):	3		Wate	er Surfa	ce (At Crossir	ng Location):	1			
Stream Depth (in.)		✓ 1-3 ☐ 3	3-6	_ 12-1	8 🗌 18-24	<u>24-36</u>	□ 36	6-48 🗌 48-	60 🗌 60+	
OHWM Indicators:										
SCOUR										
Bank Height (ft.):	Left	0-2	2-4 4-6	<u> </u>	8					
(Looking Downstrea	am)									
	Righ	II. 🔽 U-Z	2-4	<u> </u>	8 🗌 8+					
Bank Slope (%):	Left	50%								
(Looking Downstrea	^{am)} Rigl	nt: 50%								
Qualitative Attr	ihutes									
Water Appearance										
✓ Clear		urbid	☐ Sheen or	n Surfac	e □F	loating Algal	mats			
Slightly Turbid	ı □v	ery Turbid	Greenish	Color		bvious Surfa		ım		
☐ No Flow		ther:								
Stream Substrate										
	OBBLES									
70% S										
10% 3	ILIO									
Aquatic Habitats:										
Sand Bar		Gravel Riffles] In-stre	am Emergen	t Plants	% Co	over:		
Gravel Bar		eep Pools] In-stre	am Submerg	ed Plants	% Co	over:		
	E	ank Root Systen	ns 🗸	Fringir	ng Wetlands¹					
Undercut Ban	ks 🗸 C	verhanging Tree	s/Shrubs	None						
¹Characteristics:	PFO/PE	M								
Aquatic Organism	s Observed	:								
NONE										

95 State Road





Tributary Condition:	✓ Natural Artificial (Mar	n-Made)		
Channel Condition:	☐ Channelization/Braiding	☐ Unnatural Straightening	Downcutting	
	☐ Dikes/Berms	Excessive Bank Erosion	✓ N/A	
Habitat Obassatatat	A	December 1 and 1		
Habitat Characteristic	s, Aquatic, and Terrestrial Diversity	Description:		
Stream Quality:	✓ High ✓ Moderate ✓ Low			
Comments:				





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

95 State Road Sagamore Beach, MA 02662

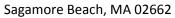


Waterbody Data Form

Feature ID: DE-1B-S263B

				Associated Wetland ID: DE-1B-W327
✓ Centerline	Re-Route	ad 🗌 Ancillary Fac	cility Alternative Route	e 🗌 Other
Centerline ID: Primary Route			Facility Description:	
Date:	Client/Project Name:			Latitude/Longitude:
2013/08/12	Constitution			42.423842 , -74.96527
Team:	State/County:			Quad Name:
1B	NY - Delaware			West Davenport
Logbook No.:	Logbook Page No.:	Tract No.:		
3	13	NY-DE-141.006		
Waterbody Type:	☐ Lake ☐ Pond ☐ Bo	orrow Pit 🗸 Stream	Ag. Ditch Other	r
Stream Flow:	Fast Moderate	Slow Very	Slow ✓ None	
Flow Type:	Perennial (Flows year	round)	✓ Intermittent (Flows <3	months) None
	─ Seasonal (Continuous)	flow ≥ 3 months)	☐ Ephemeral (Flows only	in response to rainfall)
Direction of Flow:	N	SE S		IW No Flow
OHWM Width (ft.):	4			
Sinuosity:	☐ Braided ☐ N	leandering ✓ S	traight	
Stream Width (ft.):	4	Water Surf	face (At Crossing Location):	0
Stream Depth (in.):	✓ 0 ☐ 1-3 ☐ 3	B-6	-18 🗌 18-24 📗 24-36	□ 36-48 □ 48-60 □ 60+
OHWM Indicators:				
SCOUR				
Bank Height (ft.):	Left: ✓ 0-2] 2-4	6-8 🗌 8+	
(Looking Downstrear	ⁿ⁾ Right: ✓ 0-2 □] 2-4	6-8 🗌 8+	
Bank Slope (%):	Left: 30%			
(Looking Downstrear	n)			
, -	"' Right: 30%			
Qualitative Attrib	outes			
Water Appearance:		_		
Clear	Turbid	Sheen on Surf		
Slightly Turbid	☐ Very Turbid	Greenish Colo	r Obvious Surfa	ace Scum
✓ No Flow	Other:			
Stream Substrate %				
50% CO				
50% SIL	.TS			
Aquatic Habitats:				
☐ Sand Bar	☐ Gravel Riffles	☐ In-st	ream Emergent Plants	% Cover: 20
☐ Gravel Bar	Deep Pools	☐ In-st	ream Submerged Plants	% Cover:
☐ Mud Bar	☐ Bank Root Syster	ns 🗸 Fring	ging Wetlands ¹	
Undercut Banks	S Verhanging Tree	es/Shrubs 🗌 None	е	
¹Characteristics:				
Aquatic Organisms	Observed:			
NONE				

95 State Road





Tributary Condition:	✓ Natural Artificial (Mar	n-Made)		
Channel Condition:	☐ Channelization/Braiding	☐ Unnatural Straightening	Downcutting	
	☐ Dikes/Berms	Excessive Bank Erosion	✓ N/A	
Habitat Obassatatat	A	December 1 and 1		
Habitat Characteristic	s, Aquatic, and Terrestrial Diversity	Description:		
Stream Quality:	✓ High ✓ Moderate ✓ Low			
Comments:				





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

95 State Road Sagamore Beach, MA 02662

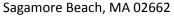


Waterbody Data Form

Feature ID: DE-1C-S273A

Contouline De Deute DAssess Deed DAssellery Feelilit	Associated Wetland ID: DE-1C-W363
✓ Centerline ☐ Re-Route ☐ Access Road ☐ Ancillary Facility Centerline ID:	Alternative Route Other ocility Description:
Primary Route	icinty Description.
Date: Client/Project Name:	Latitude/Longitude:
2013/12/12 Constitution	42.374895 , -75.15183
Team: State/County:	Quad Name:
1C NY - Delaware	Franklin
Logbook No.: Logbook Page No.: Tract No.:	·
14 56 NY-DE-080.000	
Waterbody Type: ☐ Lake ☐ Pond ☐ Borrow Pit ✔ Stream [Ag. Ditch Other
Stream Flow: ☐ Fast ☐ Moderate ☑ Slow ☐ Very Slo	w None
Flow Type: Perennial (Flows year round)	Intermittent (Flows <3 months)
☐ Seasonal (Continuous flow ≥ 3 months)	Ephemeral (Flows only in response to rainfall)
Direction of Flow: N NE E SE S	SW W NW No Flow
OHWM Width (ft.): 3	
Sinuosity: ☐ Braided ☐ Meandering ✓ Stra	ight N/A
Stream Width (ft.): 5 Water Surface	e (At Crossing Location): 3
Stream Depth (in.): □ 0 □ 1-3 □ 3-6 ✔ 6-12 □ 12-18	3
OHWM Indicators: BENT, MATTED OR MISSING VEGETATION SCOUR	
Bank Height (ft.): Left: ✓ 0-2 ☐ 2-4 ☐ 4-6 ☐ 6-8	□ 8+
(Looking Downstream) Right: ✓ 0-2 ☐ 2-4 ☐ 4-6 ☐ 6-8	□ 8+
Bank Slope (%): Left: 1:1	
(Looking Downstream) Right: 1:1	
Tugnt. 1.1	
Qualitative Attributes Water Appearance: ✓ Clear Turbid Sheen on Surface ☐ Slightly Turbid Very Turbid Greenish Color ☐ No Flow Other: Stream Substrate %: 60% MUCK 40% VEGETATION	e ☐ Floating Algalmats ☐ Obvious Surface Scum
☐ Gravel Bar ☐ Deep Pools ☐ In-strea	m Emergent Plants % Cover: 40 m Submerged Plants % Cover: g Wetlands¹
INVERTEBRATES	

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Tributary Condition: Natural Artificial (Man-Made) Manipulated

Channel Condition: Channelization/Braiding Unnatural Straightening Downcutting
Dikes/Berms Excessive Bank Erosion

Habitat Characteristics, Aquatic, and Terrestrial Diversity Description:

Stream Quality: High Moderate Low

Comments:





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

95 State Road Sagamore Beach, MA 02662



Waterbody Data Form

Feature ID: DE-1C-S274

				Associated Wetland ID: DE-1C-W329
✓ Centerline ☐ Re-	-Route Access Ro	ad 🗌 Ancillary Fac	ility	e 🗌 Other
Centerline ID:			Facility Description:	
Primary Route				
Date:	Client/Project Name:			Latitude/Longitude:
2013/12/12	Constitution			42.403596 , -75.09168
Team:	State/County:			Quad Name:
1C	- NY	T		Oneonta
-	book Page No.:	Tract No.:		
14 62		NY-DE-097.000		
Waterbody Type:	Lake 🗌 Pond 🔲 Bo	orrow Pit 🗸 Stream	Ag. Ditch Othe	r
Stream Flow:	Fast Moderate	✓ Slow Uery S	Slow None	
Flow Type:	Perennial (Flows year	round)	✓ Intermittent (Flows <3	months)
	Seasonal (Continuous	flow ≥ 3 months)	☐ Ephemeral (Flows only	y in response to rainfall)
	N NE E	✓ SE S		IW ☐ No Flow
OHWM Width (ft.): 2				
Sinuosity:	Braided	leandering S	traight	
Stream Width (ft.): 2		Water Surf	ace (At Crossing Location):	2
Stream Depth (in.):] 0 ☑ 1-3 □ 3	B-6	-18 🗌 18-24 🔲 24-36	□ 36-48 □ 48-60 □ 60+
OHWM Indicators:				
CLEAR NATURAL I	LINE ON BANK			
SCOUR				
Bank Height (ft.):	Left: ✓ 0-2	2-4	6-8	
(Looking Downstream)				
	Right: 🗸 0-2	2-4	6-8 <u> </u>	
Bank Slope (%):	Left: 1:1			
(Looking Downstream)	Right: 1:1			
Olitativa Attaihut				
Qualitative Attribute Water Appearance:	es			
✓ Clear	☐ Turbid	☐ Sheen on Surfa	ace	Imats
Slightly Turbid	☐ Very Turbid	Greenish Color		
☐ No Flow	Other:			acc ocum
Stream Substrate %:				
30% COBBI	IFS			
30% GRAVI				
20% SANDS				
20% SILTS	O			
20 /0 GIL I G				

95 State Road



Sagamore Beach, MA 02662

Aquatic Habitats:			
☐ Sand Bar	☐ Gravel Riffles	☐ In-stream Emergent Plants	% Cover:
☐ Gravel Bar	☐ Deep Pools	☐ In-stream Submerged Plants	% Cover:
	☐ Bank Root Systems	✓ Fringing Wetlands¹	
☐ Undercut Banks	Overhanging Trees/Shrubs	☐ None	
¹Characteristics: P	FO		
Aquatic Organisms Obs	served:		
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: Comments:	High ☑ Moderate ☐ Low		





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

95 State Road Sagamore Beach, MA 02662



Waterbody Data Form

Feature ID: DE-1C-S275

	_		Associated Wetland ID: DE-1C-W329
	ss Road		☐ Other
Centerline ID:		Facility Description:	
Primary Route			
Date: Client/Project Name	e :		Latitude/Longitude:
2013/12/12 Constitution			12.403065 , -75.09219
Team: State/Coun	ty:		Quad Name:
1C - NY			Oneonta
Logbook No.: Logbook Page No.: 63	Tract No.: NY-DE-097.000		
14 03	N1-DE-091.000		
Waterbody Type:	Borrow Pit 🗸 Stream	Ag. Ditch Other	
Stream Flow: Fast Moderate	te ☑ Slow ☐ Very S	Slow None	
Flow Type: Perennial (Flows	year round)	✓ Intermittent (Flows <3 m	nonths) None
☐ Seasonal (Continu	uous flow ≥ 3 months)	☐ Ephemeral (Flows only i	n response to rainfall)
Direction of Flow: N NE]E ☐ SE 🗸 S	□ SW □ W □ NV	V No Flow
OHWM Width (ft.): 3			
Sinuosity: Braided	☐ Meandering ✓ S	Straight	
Stream Width (ft.): 6	Water Surf	face (At Crossing Location):	3
Stream Depth (in.): 0	☐ 3-6 ☐ 6-12 ☐ 12	-18 🗌 18-24 📗 24-36	□ 36-48 □ 48-60 □ 60+
OHWM Indicators: CLEAR NATURAL LINE ON BANK SCOUR			
Bank Height (ft.): Left: 🗸 0-2	2-4 4-6 6	6-8 🗌 8+	
(Looking Downstream) Right: 🗸 0-2	2-4	6-8 🗌 8+	
Bank Slope (%): Left: 2:1			
(Looking Downstream) Right: 2:1			
Nigiit. Z. i			
Qualitative Attributes			
Water Appearance:	_	_	
✓ Clear	☐ Sheen on Surfa	5 5.	
Slightly Turbid Very Turbid	☐ Greenish Color	r	ce Scum
☐ No Flow ☐ Other:			
Stream Substrate %:			
35% COBBLES			
30% GRAVEL			
10% SANDS			
10% SANDS			
15% VEGETATION			

95 State Road



Sagamore Beach, MA 02662

<u> </u>			
Aquatic Habitats:			
Sand Bar	☐ Gravel Riffles	☐ In-stream Emergent Plants	% Cover:
☐ Gravel Bar	☐ Deep Pools	☐ In-stream Submerged Plants	% Cover:
☐ Mud Bar	☐ Bank Root Systems	✓ Fringing Wetlands¹	
☐ Undercut Banks	Overhanging Trees/Shrubs	☐ None	
¹Characteristics: F	PFO/PEM		
Aquatic Organisms Obs	served:		
FROGS			
INVERTEBRATES			
Tributary Condition:	✓ Natural	Made) 🗌 Manipulated	
Channel Condition:	☐ Channelization/Braiding	Unnatural Straightening	☐ Downcutting
	☐ Dikes/Berms	Excessive Bank Erosion	✓ N/A
Habitat Characteristics	, Aquatic, and Terrestrial Diversity De	escription:	
Stream Quality:	Lligh Moderate Llow		
	High ✓ Moderate ☐ Low		
Comments:			





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

95 State Road Sagamore Beach, MA 02662

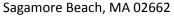


Waterbody Data Form

Feature ID: DE-1C-S283BR

Associated Wetland ID: DE-1C-W338-I
☐ Centerline ☐ Re-Route ✔ Access Road ☐ Ancillary Facility ☐ Alternative Route ☐ Other
Centerline ID: Facility Description:
Primary Route
Date: Client/Project Name: Latitude/Longitude: 2013/09/13 Constitution Latitude/Longitude: 42.286057 , -75.35866
2013/09/13 Constitution 42.286057 , -75.35866 Team: State/County: Quad Name:
1C NY - Delaware Unadilla
Logbook No.: Logbook Page No.: Tract No.:
12 62 UA-NY-DE-013.001.AR
Waterbody Type: ☐ Lake ☐ Pond ☐ Borrow Pit ✔ Stream ☐ Ag. Ditch ☐ Other
Stream Flow: ☐ Fast ☐ Moderate ☑ Slow ☐ Very Slow ☐ None
Flow Type: Perennial (Flows year round) Intermittent (Flows <3 months) None
☐ Seasonal (Continuous flow ≥ 3 months) ☐ Ephemeral (Flows only in response to rainfall)
Direction of Flow: N NE E SE S SW NW NW NO Flow
OHWM Width (ft.): 2
Sinuosity: ☐ Braided ☑ Meandering ☐ Straight ☐ N/A
Stream Width (ft.): 3 Water Surface (At Crossing Location): 1
Stream Depth (in.): □ 0
OHWM Indicators:
CLEAR NATURAL LINE ON BANK
Penk Height (ft):
Bank Height (ft.): Left: V 0-2 2-4 4-6 6-8 8+ (Looking Downstream)
Right: V 0-2 2-4 4-6 6-8 8+
Bank Slope (%): Left: 1:1
(Looking Downstream) Right: 1:1
Qualitative Attributes
Water Appearance: ✓ Clear
✓ Clear ☐ Turbid ☐ Sheen on Surface ☐ Floating Algalmats ☐ Slightly Turbid ☐ Very Turbid ☐ Greenish Color ☐ Obvious Surface Scum
No Flow Other:
Stream Substrate %:
10% COBBLES
45% GRAVEL
45% SILTS
Aquatic Habitats:
☐ Sand Bar ☐ Gravel Riffles ☐ In-stream Emergent Plants % Cover:
Gravel Bar Deep Pools In-stream Submerged Plants % Cover:
☐ Mud Bar ☐ Bank Root Systems ☑ Fringing Wetlands¹ ☐ Undersuit Banks ☐ Overhanding Trace/Chruha
Undercut Banks Overhanging Trees/Shrubs None
¹Characteristics: PEM
Aquatic Organisms Observed:
FROGS

95 State Road





Tributary Condition: Natural Artificial (Man-Made) Manipulated

Channel Condition: Channelization/Braiding Unnatural Straightening Downcutting
Dikes/Berms Excessive Bank Erosion

Habitat Characteristics, Aquatic, and Terrestrial Diversity Description:

Stream Quality: High Moderate Low

Comments:





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

95 State Road Sagamore Beach, MA 02662



Waterbody Data Form

Feature ID: DE-1C-S284BR

	Associated Wetland ID:
☐ Centerline ☐ Re-Route ✔ Access Road ☐ Ancillary Facility ☐	☐ Alternative Route ☐ Other
Centerline ID: Facility	Description:
Primary Route	
Date: Client/Project Name:	Latitude/Longitude:
2013/09/13 Constitution	42.286176 , -75.35776
Team: State/County:	Quad Name:
1C NY - Delaware	Unadilla
Logbook No.: Logbook Page No.: Tract No.:	
12 66 UA-NY-DE-013.001.AR	
Waterbody Type: ☐ Lake ☐ Pond ☐ Borrow Pit ✔ Stream ☐ Ag	g. Ditch
Stream Flow: ☐ Fast ☐ Moderate ☑ Slow ☐ Very Slow	None
Flow Type: Perennial (Flows year round) Inte	ermittent (Flows <3 months)
☐ Seasonal (Continuous flow ≥ 3 months) ☐ Eph	nemeral (Flows only in response to rainfall)
Direction of Flow: N NE E SE S V SV	
OHWM Width (ft.): 12	
Sinuosity: ☐ Braided ☐ Meandering ☑ Straight	□ N/A
	Crossing Location): 10
Stream Depth (in.): □ 0 □ 1-3 ✓ 3-6 □ 6-12 □ 12-18 □	18-24
OHWM Indicators:	
CLEAR NATURAL LINE ON BANK	
SCOUR	
Bank Height (ft.): Left: • 0-2 2-4 4-6 6-8 (Looking Downstream)	8+
Right: • 0-2 2-4 4-6 6-8	□ 8+
Bank Slope (%): Left: 1:1	
(Looking Downstream) Right: 2:1	
Qualitative Attributes	
Water Appearance:	_
✓ Clear ☐ Turbid ☐ Sheen on Surface	☐ Floating Algalmats
☐ Slightly Turbid ☐ Very Turbid ☐ Greenish Color	☐ Obvious Surface Scum
☐ No Flow ☐ Other:	
Stream Substrate %:	
65% COBBLES	
20% GRAVEL	
5% SANDS	
10% SILTS	

95 State Road



Sagamore Beach, MA 02662

Aquatic Habitats:			
☐ Sand Bar	☐ Gravel Riffles	☐ In-stream Emergent Plants	% Cover:
☐ Gravel Bar	☐ Deep Pools	☐ In-stream Submerged Plants	% Cover:
	✓ Bank Root Systems	☐ Fringing Wetlands¹	
Undercut Banks	Overhanging Trees/Shrubs	□ None	
¹Characteristics:			
Aquatic Organisms Obs	served:		
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 De	escription:	
Stream Quality:	High ✓ Moderate ☐ Low		
	riigii 🛂 Moderate 🔝 Low		
Comments:			





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

95 State Road Sagamore Beach, MA 02662

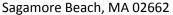


Waterbody Data Form

Feature ID: DE-1C-S287

	Associated Wetland ID	: DE-1D-W281
✓ Centerline ☐ R	Re-Route	
Centerline ID:	Facility Description:	
Date:	Client/Project Name: Latitude/Longitude:	
2014/04/24	Constitution 42.362419 , -75.18722	
Team:	State/County: Quad Name:	
1C	NY - Delaware Franklin	
Logbook No.: Lo	Logbook Page No.: Tract No.:	
15 8	8 NY-DE-071.000	
Waterbody Type:	☐ Lake ☐ Pond ☐ Borrow Pit ✔ Stream ☐ Ag. Ditch ☐ Other	
Stream Flow:	☐ Fast ☐ Moderate ☐ Slow ☐ Very Slow ☑ None	
Flow Type:	☐ Perennial (Flows year round) ☐ Intermittent (Flows <3 months) ☐ No	one
	Seasonal (Continuous flow ≥ 3 months)✓ Ephemeral (Flows only in response to rainfall)	
Direction of Flow:	N NE E	
OHWM Width (ft.): 3		
Sinuosity:	☐ Braided ☐ Meandering ☑ Straight ☐ N/A	
Stream Width (ft.): 3	32 Water Surface (At Crossing Location): 0	
Stream Depth (in.):	☑ 0] 60+
OHWM Indicators: BENT, MATTED C LEAF LITTER DIS SCOUR	O OR MISSING VEGETATION DISTURBED	
Bank Height (ft.):	Left: ☑ 0-2 ☐ 2-4 ☐ 4-6 ☐ 6-8 ☐ 8+	
(Looking Downstream)	^{m)} Right: ☑ 0-2 □ 2-4 □ 4-6 □ 6-8 □ 8+	
Bank Slope (%):	Left: 1:1	
(Looking Downstream)	m)	
,	" ¹ Right: 1:1	
Qualitative Attribu Water Appearance: ☐ Clear ☐ Slightly Turbid ☑ No Flow		
Stream Substrate %:	o:	
10% OTH	HER - stone	
10% SILT	.TS	
80% VEG	GETATION	
Aquatic Habitats: Sand Bar Gravel Bar Mud Bar Undercut Banks Characteristics:	☐ Gravel Riffles ☐ In-stream Emergent Plants % Cover: ☐ Deep Pools ☐ In-stream Submerged Plants % Cover: ☐ Bank Root Systems ☐ Fringing Wetlands¹ s ☐ Overhanging Trees/Shrubs ✔ None PFO	
Aquatic Organisms O	Observed:	
1		

95 State Road





Tributary Condition: ✓ Natural ☐ Artificial (Man-Made) Manipulated **Channel Condition:** ☐ Channelization/Braiding ☐ Unnatural Straightening Downcutting ☐ Excessive Bank Erosion ☐ Dikes/Berms ✓ N/A **Habitat Characteristics, Aquatic, and Terrestrial Diversity Description:** Stream Quality: High Comments: Braided stream channel that is not well defined





Photo Name: DE1CS287_042414_3SW.jpg Not



Photo Name: DE1CS287_042414_2SE.jpg Note: DE-1C-S287



Photo Name: DE1CS287_042414_1NW.jpg Note: DE-1C-S287

95 State Road Sagamore Beach, MA 02662



Waterbody Data Form

Feature ID: DE-1C-S289

Feature Name:

		Α	ssociated Wetland ID: DE-1M-W154
✓ Centerline ☐ Re-Route ☐	Access Road	ility Alternative Route	☐ Other
Centerline ID:		Facility Description:	
Date: Client/Proje	act Name:	1.0	stitudo/Longitudo:
Date: Client/Projum 2014/05/05 Constituti			atitude/Longitude: 2.422618 , -74.98903
	ate/County:	T2	Quad Name:
	Y - Delaware		West Davenport
Logbook No.: Logbook Page I			сот дот стърст
15 56	NY-DE-131.000		
Waterbody Type:	Pond ☐ Borrow Pit ✓ Stream	☐ Ag. Ditch ☐ Other	
Stream Flow: Fast I	Moderate ☑ Slow ☐ Very S	Slow None	
Flow Type: Perennial	(Flows year round)	✓ Intermittent (Flows <3 mo	nths) None
 ☐ Seasonal ((Continuous flow ≥ 3 months)	☐ Ephemeral (Flows only in	response to rainfall)
	IE □ E □ SE □ S	SW W NW	□ No Flow
OHWM Width (ft.): 1			
Sinuosity: Braided	☐ Meandering ✓ St	traight	
Stream Width (ft.): 2	Water Surfa	ace (At Crossing Location):	1
Stream Depth (in.): 0	2 1-3	-18 🗌 18-24 📗 24-36 🖺	36-48
OHWM Indicators:			
LEAF LITTER DISTURBED			
SCOUR			
Bank Height (ft.): Left:	✓ 0-2	G-8	
(Looking Downstream) Right:	✓ 0-2	G-8	
	3:1		
(Looking Downstream)			
Right:	3:1		
Qualitative Attributes			
Water Appearance:			
✓ Clear	d Sheen on Surfa	ace	ts
☐ Slightly Turbid ☐ Very	Turbid Greenish Color	Obvious Surface	Scum
☐ No Flow ☐ Other	:		
Stream Substrate %:			
20% BEDROCK			
30% GRAVEL			
35% OTHER - Stones	;		
15% SILTS			
Aquatic Habitats:			
-	el Riffles	eam Emergent Plants %	6 Cover:
		_	6 Cover:
		ing Wetlands¹	
	hanging Trees/Shrubs		
¹Characteristics: PFO			
Aquatic Organisms Observed:			
NONE			

95 State Road





Tributary Condit	ion: Natural Artific	icial (Man-Made) 🗹 Manipulated				
Channel Condition	on: Channelization/Bra	Braiding Unnatural Straightening Downcutting				
	☐ Dikes/Berms	Excessive Bank Erosic	on ✓ N/A			
Habitat Characteristics, Aquatic, and Terrestrial Diversity Description:						
Stream Quality:	☐ High ☐ Moderate ✔	• Low				
·		LOW				
Comments:	stream in old road					





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

95 State Road Sagamore Beach, MA 02662



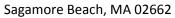
Waterbody Data Form

Feature ID: DE-1C-S290

Feature Name:

✓ Contacting □ Po Pouts □ Assess Bood □ Appillant Foo	Associated Wetland ID: DE-1C-W376
✓ Centerline ☐ Re-Route ☐ Access Road ☐ Ancillary Fac	ility Alternative Route Other Facility Description:
Centerline ID.	r acinty Description.
Date: Client/Project Name:	Latitude/Longitude:
2014/05/06 Constitution	42.422111 , -74.99008
Team: State/County:	Quad Name:
1C NY - Delaware	West Davenport
Logbook No.: Logbook Page No.: Tract No.:	, .
15 62 NY-DE-131.000	
Waterbody Type: ☐ Lake ☐ Pond ☐ Borrow Pit ✔ Stream	_ Ag. Ditch _ Other
Stream Flow: ☐ Fast ☐ Moderate ☐ Slow ✔ Very	Slow None
Flow Type: Perennial (Flows year round)	☐ Intermittent (Flows <3 months) ☐ None
☐ Seasonal (Continuous flow ≥ 3 months)	✓ Ephemeral (Flows only in response to rainfall)
Direction of Flow: N NE E SE S	SW W NW No Flow
OHWM Width (ft.): 2	GW & W HOTIOW
	- 110
	traight
Stream Width (ft.): 2.5 Water Surf	ace (At Crossing Location): 0.75
Stream Depth (in.): □ 0	-18 🗌 18-24 🔲 24-36 🔲 36-48 🔲 48-60 🔲 60+
OHWM Indicators:	
LEAF LITTER DISTURBED	
SCOUR	
Bank Height (ft.): Left: ✓ 0-2 ☐ 2-4 ☐ 4-6 ☐ 6	G-8
(Looking Downstream)	6-8
<u> </u>	I-O OT
Bank Slope (%): (Looking Downstream) Diable 4.4	
Right: 4:1	
Qualitative Attributes	
Water Appearance: ✓ Clear	ace
☐ Slightly Turbid ☐ Very Turbid ☐ Greenish Color	
□ No Flow □ Other:	_ Obvious duriace ocum
Stream Substrate %:	9
20% COBBLES	
20% GRAVEL	
60% OTHER - Loam	
Aquatic Habitats:	room Emergent Plants 9/ Covers
	eam Emergent Plants % Cover: eam Submerged Plants % Cover:
<u> </u>	eam Submerged Plants % Cover: ing Wetlands¹
☐ Mud Bar ☐ Bank Root Systems ☑ Fring ☐ Undercut Banks ☐ Overhanging Trees/Shrubs ☐ None	
¹Characteristics: PFO	
Aquatic Organisms Observed:	
NONE	

95 State Road





Tributary Condition	: 🗸 Natural 🗌 Artificial (Ma	n-Made)				
Channel Condition:	☐ Channelization/Braiding	Unnatural Straightening	Downcutting			
	☐ Dikes/Berms	Excessive Bank Erosion	✓ N/A			
Habitat Characteristics, Aquatic, and Terrestrial Diversity Description:						
Stream Quality: Comments:	☐ High ☐ Moderate ✔ Low					





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

95 State Road Sagamore Beach, MA 02662



Waterbody Data Form

Feature ID: DE-1C-S303 Feature Name:

		Associated Wetland ID:
✓ Centerline	Route Access Road Ancillary Facility	☐ Alternative Route ☐ Other
Centerline ID:	Fa	cility Description:
	Client/Project Name:	Latitude/Longitude:
2014/06/04	Constitution	42.350208 , -75.24490
Team:	State/County:	Quad Name:
	NY - Delaware	Franklin
	pook Page No.: Tract No.:	
15 128	NY-DE-049.000	
Waterbody Type:	_ake	☐ Ag. Ditch ☑ Other Roadside ditch
Stream Flow:	Fast ☐ Moderate ☑ Slow ☐ Very Slov	v ☐ None
Flow Type:	Perennial (Flows year round)	Intermittent (Flows <3 months)
	Seasonal (Continuous flow ≥ 3 months)	Ephemeral (Flows only in response to rainfall)
Direction of Flow:	N NE E SE S	SW W NW No Flow
OHWM Width (ft.): 3		
Sinuosity:	Braided ☐ Meandering ☑ Strai	ght N/A
Stream Width (ft.): 5	Water Surface	(At Crossing Location): 2
Stream Depth (in.):	0 🗸 1-3 🗌 3-6 🗌 6-12 🔲 12-18	□ 18-24 □ 24-36 □ 36-48 □ 48-60 □ 60+
OHWM Indicators:		
CLEAR NATURAL L	INE ON BANK	
LEAF LITTER DIST	URBED	
SCOUR		
Bank Height (ft.):	Left: ☑ 0-2 ☐ 2-4 ☐ 4-6 ☐ 6-8	□ 8+
(Looking Downstream)	Right: 0-2 2-4 4-6 6-8	□ 8+
Bank Slope (%):	Left: 3:1	
(Looking Downstream)		
,	Right: 3:1	
Qualitative Attribute	9 \$	
Water Appearance:		
✓ Clear	☐ Turbid ☐ Sheen on Surface	
☐ Slightly Turbid	☐ Very Turbid ☐ Greenish Color	Obvious Surface Scum
☐ No Flow	Other:	
Stream Substrate %:		
30% GRAVE	≣L	
50% OTHER	R - Stone	
15% SANDS	5	
5% SILTS		

95 State Road



Sagamore Beach, MA 02662

Aquatic Habitats:			
Sand Bar	☐ Gravel Riffles	☐ In-stream Emergent Plants	% Cover:
☐ Gravel Bar	☐ Deep Pools	☐ In-stream Submerged Plants	% Cover:
☐ Mud Bar	☐ Bank Root Systems	✓ Fringing Wetlands¹	
☐ Undercut Banks	Overhanging Trees/Shrubs	□ None	
¹Characteristics:			
Aquatic Organisms Obs	served:		
NONE			
Tributary Condition:	Natural Artificial (Man-I	Made) 🗌 Manipulated	
Channel Condition:	☐ Channelization/Braiding	Unnatural Straightening	☐ Downcutting
	☐ Dikes/Berms	Excessive Bank Erosion	✓ N/A
	Aquatic, and Terrestrial Diversity De	escription:	
Ditch			
Stream Quality:	High ☐ Moderate ✓ Low		
Comments:			





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

95 State Road Sagamore Beach, MA 02662

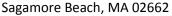


Waterbody Data Form

Feature ID: DE-1G-S005 Feature Name:

	Associated Wetland ID:
✓ Centerline ☐ Re-Route ☐ Access Road ☐ Ancillary Facility	✓ ☐ Alternative Route ☐ Other
Centerline ID: Fa	acility Description:
Primary Route	
Date: Client/Project Name:	Latitude/Longitude:
2012/07/20 Constitution	42.504018 , -74.72490
Team: State/County:	Quad Name:
1G NY - Delaware	Charlotteville
Logbook No.: Logbook Page No.: Tract No.:	
2 66 NY-DE-231.000	
Waterbody Type: ☐ Lake ☐ Pond ☐ Borrow Pit ✔ Stream [Ag. Ditch Other
Stream Flow: Fast Moderate Slow Very Slov	w ✓ None
Flow Type: Perennial (Flows year round)	Intermittent (Flows <3 months)
☐ Seasonal (Continuous flow ≥ 3 months)	Ephemeral (Flows only in response to rainfall)
Direction of Flow: ✓ N NE E SE S	SW W NW No Flow
	SW W INV W INO Flow
OHWM Width (ft.): 10	
Sinuosity: ☐ Braided ☑ Meandering ☐ Strai	
` '	e (At Crossing Location): 0
Stream Depth (in.): ✓ 0	8 🗌 18-24 🔲 24-36 🔲 36-48 🔲 48-60 🔲 60+
OHWM Indicators:	
SHELVING	
Bank Height (ft.): Left: ☑ 0-2 ☐ 2-4 ☐ 4-6 ☐ 6-8	□ 8+
(Looking Downstream) Right: ✓ 0-2 ☐ 2-4 ☐ 4-6 ☐ 6-8	□ 8+
	<u>_</u>
Bank Slope: Left: 4:1 3:1 2:1 1:1 (Looking Downstream)	✓ Vertical
Right: 4:1 3:1 2:1 1:1	✓ Vertical
Qualitative Attributes	
Water Appearance:	
☐ Clear ☐ Turbid ☐ Sheen on Surface	Floating Algalmats
☐ Slightly Turbid ☐ Very Turbid ☐ Greenish Color	Obvious Surface Scum
✓ No Flow	-
Stream Substrate %:	
60% BEDROCK -	
40% COBBLES -	
Aquatic Habitats:	- F 1 Pl - 1 0
	m Emergent Plants % Cover: 0
· · · · · · · · · · · · · · · · · · ·	m Submerged Plants % Cover: 0
	y Wetlands¹
☐ Undercut Banks ✓ Overhanging Trees/Shrubs ☐ None	
¹Characteristics:	
Aquatic Organisms Observed:	
FROGS	

95 State Road





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:





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

95 State Road Sagamore Beach, MA 02662



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: Client/Project Name: Latitude/Longitude: 2013/03/29 Constitution -74.90186, 42.434071 State/County: Team: Quad Name: NY - Delaware 1G West Davenport Logbook No.: Logbook Page No.: Tract No.: UA-NY-DE-158.003 68 7 Waterbody Type: Lake Pond Borrow Pit ✓ Stream Ag. Ditch Other Stream Flow: Moderate ☐ Slow ✓ Very Slow □ None Flow Type: □ Perennial (Flows year round) ✓ Intermittent (Flows <3 months) □ None Seasonal (Continuous flow ≥ 3 months) Ephemeral (Flows only in response to rainfall) Direction of Flow: N ☐ NE ☐ SE \sqcap S ☐ SW **✓** NW ☐ No Flow OHWM Width (ft.): 9 Sinuosity: □ Braided Meandering ✓ Straight □ N/A Stream Width (ft.): Water Surface (At Crossing Location): 3 Stream Depth (in.): **✓** 1-3 3-6 ☐ 6-12 ☐ 12-18 ☐ 18-24 ☐ 24-36 □ 36-48 □ 48-60 **OHWM Indicators:** CLEAR NATURAL LINE ON BANK WRACK LINE Bank Height (ft.): Left: 0-2 **✓** 2-4 4-6 6-8 □ 8+ (Looking Downstream) Right: 0-2 ✓ 2-4 8+ 4-6 6-8 Bank Slope (%): 100% Left: (Looking Downstream) Right: 60% **Qualitative Attributes** Water Appearance: ✓ Clear Turbid ☐ Sheen on Surface ☐ Floating Algalmats Slightly Turbid ☐ Very Turbid Greenish Color Obvious Surface Scum No Flow Other: Stream Substrate %: 70% COBBLES 20% GRAVEL 10% SILTS **Aquatic Habitats:** Sand Bar Gravel Riffles ☐ In-stream Emergent Plants % Cover: Gravel Bar ☐ In-stream Submerged Plants % Cover: Deep Pools Mud Bar ☐ Bank Root Systems ☐ Fringing Wetlands¹ ☐ Undercut Banks ✓ Overhanging Trees/Shrubs None ¹Characteristics: **Aquatic Organisms Observed: INVERTEBRATES**

95 State Road

Sagamore Beach, MA 02662



Tributary Condition: Manipulated **Channel Condition:** ☐ Channelization/Braiding ☐ Unnatural Straightening Downcutting ☐ Excessive Bank Erosion ☐ Dikes/Berms ✓ N/A **Habitat Characteristics, Aquatic, and Terrestrial Diversity Description:** Stream Quality: High Comments: TRIBUTARY TO DE-11-S201





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

95 State Road Sagamore Beach, MA 02662



Waterbody Data Form

Feature ID: DE-1I-S201
Feature Name:

								Associated Wetland ID:
✓ Centerline	Re-Route	Access Ro	oad 🗌 Aı	ncillary Fac	ility	Alternative Rout	te	☐ Other
Centerline ID:					Facility	Description:		
Date:	Client/	Project Name:					La	titude/Longitude:
2013/03/29	Const	itution					-74	4.90211 , 42.433911
Team:		State/County:						Quad Name:
11		NY - Delaware)					West Davenport
Logbook No.:	Logbook Pa	ige No.:	Tract No.: UA-NY-D	E-158.003				
Waterbody Type:	Lake	Pond B	orrow Pit	✓ Stream	Ag	. Ditch	er	
Stream Flow:	✓ Fast	Moderate	Slow	☐ Very		None		
Flow Type:	Perenr	nial (Flows year	round)		☐ Inte	rmittent (Flows <3	3 moi	nths)
	Seaso	nal (Continuous	flow ≥ 3 mc	onths)	☐ Eph	emeral (Flows on	ly in	response to rainfall)
Direction of Flow:	□ N [NE E	☐ SE	□ S	SW	/ □ W 🗸 I	NW	☐ No Flow
OHWM Width (ft.):	75							
Sinuosity:	Braide	l 🔽 b	Meandering	□ S	traight	□ N/A		
Stream Width (ft.):	75			Water Surf	ace (At 0	Crossing Location)):	75
Stream Depth (in.)): <u> </u>	□ 1-3	3-6 🗌 6-	-12 🗸 12	-18 🗌	18-24 🗌 24-36	6 [36-48
OHWM Indicators: BENT, MATTE SCOUR		SING VEGETAT	ION					
Bank Height (ft.):	Left:	□ 0-2 🔻	2 -4	4-6 🗆 6	6-8	8+		
(Looking Downstrea					6-8			
Bank Slope (%):	Left:	VERTICAL						
(Looking Downstrea	am) Righ	nt: 5%						
Qualitative Attr								
Water Appearance			Ob -	0			_1	4-
✓ Clear	_	urbid		en on Surf		☐ Floating Alga		
Slightly Turbid		ery Turbid	∐ Gre	enish Colo	r	Obvious Sur	тасе	Scum
☐ No Flow		ther:						
Stream Substrate								
100% C	OBBLES							
Aquatic Habitats:		Diffica				and Diagram	0/	0
Sand Bar		ravel Riffles				nergent Plants		Cover:
Gravel Bar		eep Pools		· 		bmerged Plants	%	o Cover:
☐ Mud Bar		ank Root Syste			ing Wet	iands'		
✓ Undercut Ban	ks 🔽 C	verhanging Tre	es/Shrubs	☐ None	e			
¹Characteristics:								
Aquatic Organism								
INVERTEBRAT	TES							

95 State Road

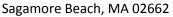








Photo Name: DE1IS201_032913_3SW.jpg Note: DE-1I-S201



Photo Name: DE1IS201_032913_2NW.jpg Note: DE-1I-S201



Photo Name: DE1IS201_032913_1SE.jpg Note: DE-1I-S201

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Waterbody Data Form

Feature ID: DE-1L-S210B Feature Name:

	Associated Wetland ID:				
✓ Centerline ☐ Re-Route ☐ Access Road ☐ Ancillary Facility ☐ Alternative Rou	te 🗌 Other				
Centerline ID: Facility Description:					
Primary Route					
Date: Client/Project Name:	Latitude/Longitude:				
2013/11/06 Constitution	42.423257 , -74.96110				
Team: State/County:	Quad Name:				
1A NY - Delaware	West Davenport				
Logbook No.: Logbook Page No.: Tract No.:					
5 NY-DE-142.001					
Waterbody Type: ☐ Lake ☐ Pond ☐ Borrow Pit ☑ Stream ☐ Ag. Ditch ☐ Oth	er				
Stream Flow: ☐ Fast ☐ Moderate ☐ Slow ☐ Very Slow ✔ None					
Flow Type: Perennial (Flows year round) Intermittent (Flows <	3 months)				
Seasonal (Continuous flow ≥ 3 months)	ly in response to rainfall)				
Direction of Flow: □ N □ NE □ E □ SE □ SW □ W □	NW 🔽 No Flow				
OHWM Width (ft.): 3					
Sinuosity: ☐ Braided ☑ Meandering ☐ Straight ☐ N/A					
Stream Width (ft.): 3 Water Surface (At Crossing Location) : 0				
Stream Depth (in.): ✓ 0 1-3 3-6 6-12 12-18 18-24 24-36 36-48 48-60 60+					
OHWM Indicators: ABRUPT PLANT COMMUNITY CHANGE SCOUR SOIL CHARACTER CHANGES					
Bank Height (ft.):					
(Looking Downstream) Right: ✓ 0-2 ☐ 2-4 ☐ 4-6 ☐ 6-8 ☐ 8+					
Bank Slope (%): Left: 60					
(Looking Downstream) Right: 60					
Qualitative Attributes					
Water Appearance: ☐ Clear ☐ Turbid ☐ Sheen on Surface ☐ Floating Algan	almata				
☐ Clear ☐ Turbid ☐ Sheen on Surface ☐ Floating Alga ☐ Slightly Turbid ☐ Very Turbid ☐ Greenish Color ☐ Obvious Sur					
✓ No Flow	lace Scum				
Stream Substrate %:					
25% GRAVEL					
40% OTHER - Stone					
25% SANDS					
10% SILTS					

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Aquatic Habitats:				
Sand Bar	☐ Gravel Riffles	☐ In-stream Emergent Plants	% Cover:	
☐ Gravel Bar	☐ Deep Pools	☐ In-stream Submerged Plants	% Cover:	
	☐ Bank Root Systems	☐ Fringing Wetlands¹		
Undercut Banks	✓ Overhanging Trees/Shrubs	☐ None		
¹Characteristics:				
Aquatic Organisms Obs	served:			
NONE				
Tributary Condition:	✓ Natural Artificial (Man-l	Made)		
Channel Condition:	Channelization/Braiding	Unnatural Straightening	Downcutting	
	☐ Dikes/Berms	Excessive Bank Erosion	✓ N/A	
Habitat Characteristics,	Aquatic, and Terrestrial Diversity De	escription:		
Stream Quality: ☐ High ☐ Moderate ✔ Low				
Comments:				





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

95 State Road Sagamore Beach, MA 02662



Waterbody Data Form

Feature ID: DE-1L-S210C

Feature Name:

			ASS	ociated wetland ID: DE-1A-W248A
✓ Centerline	Re-Route Access Road	Ancillary Facility [Alternative Route	☐ Other
Centerline ID:		Facility	Description:	
Primary Route				
Date:	Client/Project Name:		Lat	itude/Longitude:
2013/11/06	Constitution		42.	423212 , -74.96095
Team:	State/County:			Quad Name:
1A	NY - Delaware			West Davenport
-	ogbook Page No.: Tract No.	*		
5	NY-DE	-142.001		
Waterbody Type:	☐ Lake ☐ Pond ☐ Borrow Pit		g. Ditch	
Stream Flow:	🗸 Fast 🗌 Moderate 📗 Slow	/ ☐ Very Slow	☐ None	
Flow Type:	Perennial (Flows year round)	<u>✓</u> Inte	ermittent (Flows <3 mor	iths)
ı	Seasonal (Continuous flow ≥ 3	months) Eph	nemeral (Flows only in r	esponse to rainfall)
Direction of Flow:	 ✓ N □ NE □ E □ SE	E S SV	V NW	☐ No Flow
OHWM Width (ft.):				
Sinuosity:	☐ Braided ✓ Meanderii	ng Straight		
Stream Width (ft.):	1	Water Surface (At	Crossing Location):	0.8
Stream Depth (in.): □ 0 ✓ 1-3 □ 3-6 □ 6-12 □ 18-24 □ 24-36 □ 36-48 □ 48-60 □ 60+				
OHWM Indicators: ABRUPT PLANT SCOUR SOIL CHARACT	COMMUNITY CHANGE ER CHANGES			
Bank Height (ft.):	Left: ✓ 0-2 ☐ 2-4 [4-6 6-8	<u>8</u> +	
(Looking Downstrean	Right: 🗹 0-2 🗌 2-4 [□ 4-6 □ 6-8	□ 8+	
Bank Slope (%):	Left: 40			
(Looking Downstrean	Right: 40			
Qualitative Attrib	utes			
Water Appearance:				
☐ Clear	☐ Turbid ☐ S	Sheen on Surface	☐ Floating Algalmat	S
✓ Slightly Turbid	☐ Very Turbid ☐ G	Greenish Color	Obvious Surface	Scum
☐ No Flow	Other:			
Stream Substrate %				
60% GRAVEL				
30% SANDS				
5% SILTS				
	GETATION			

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Aquatic Habitats:				
☐ Sand Bar	☐ Gravel Riffles	☐ In-stream Emergent Plants	% Cover: 5	
Gravel Bar	☐ Deep Pools	☐ In-stream Submerged Plants	% Cover:	
	☐ Bank Root Systems	✓ Fringing Wetlands¹		
☐ Undercut Banks	✓ Overhanging Trees/Shrubs	□ None		
¹Characteristics: P	EM			
Aquatic Organisms Obs	served:			
NONE				
Tributary Condition:	✓ Natural Artificial (Man-	Made) 🗌 Manipulated		
Channel Condition:	☐ Channelization/Braiding	☐ Unnatural Straightening	☐ Downcutting	
	☐ Dikes/Berms	Excessive Bank Erosion	✓ N/A	
Habitat Chamastaniation	Association and Townselvial Disconsitis D			
Habitat Characteristics,	Aquatic, and Terrestrial Diversity Do	escription:		
Stream Quality: ☐ High ✓ Moderate ☐ Low				
Comments:				





Photo Name: DE1LS210C_110613_3W.jpg

Note: DE-1L-S210C



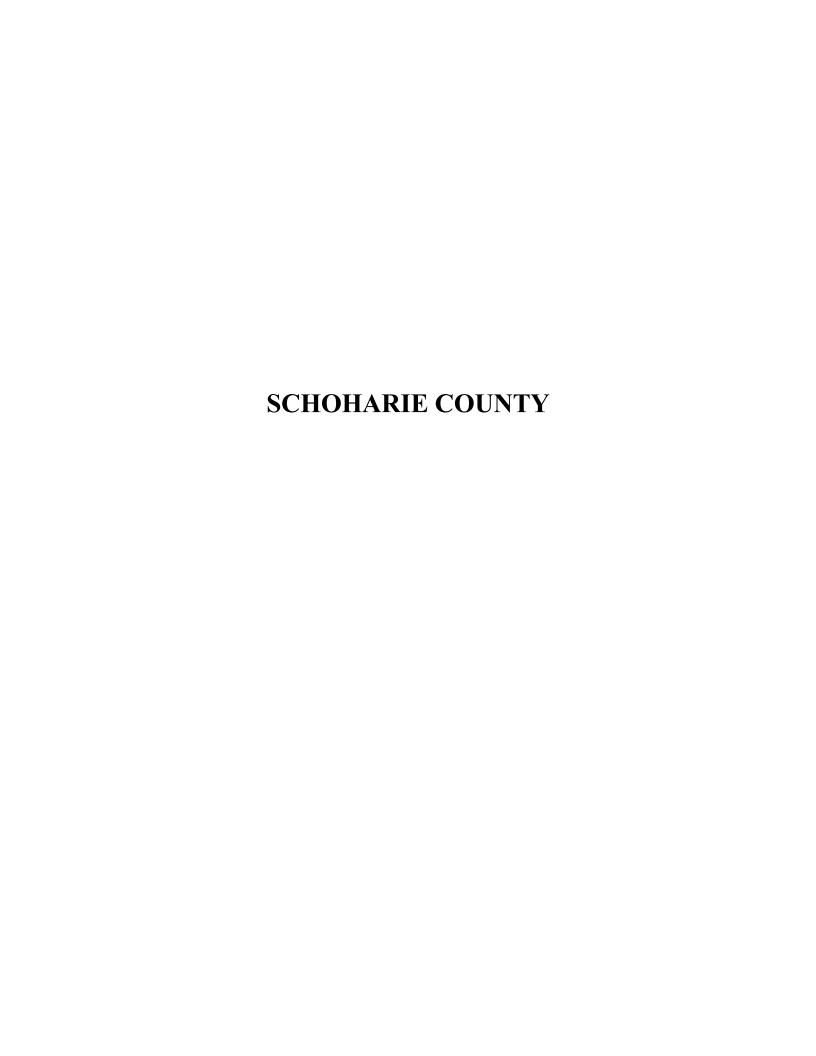
Photo Name: DE1LS210C_110613_2N.jpg

Note: DE-1L-S210C



Photo Name: DE1LS210C_1110613_1S.jpg

Note: DE-1L-S210C



95 State Road Sagamore Beach, MA 02662



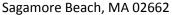
Waterbody Data Form

Feature ID: SC-1A-S366

Feature Name:

	Associated Wetland ID: SC-1A-W459, W2	292K
☐ Centerline ☐ R	Re-Route ✓ Access Road ☐ Ancillary Facility ☐ Alternative Route ☐ Other	
Centerline ID:	Facility Description:	
Primary Route		
Date:	Client/Project Name: Latitude/Longitude:	
2013/12/30	Constitution 42.704372 , -74.31106	
Team:	State/County: Quad Name:	
1A	- NY Schoharie	
Logbook No.: Lo	ogbook Page No.: Tract No.:	
5 12	22 ALT-Q-NY-SC-022	
Waterbody Type:	☐ Lake ☐ Pond ☐ Borrow Pit ☐ Stream ☐ Ag. Ditch ✔ Other Excavated channel next to access	s r
Stream Flow:	Fast ☐ Moderate ☑ Slow ☐ Very Slow ☐ None	
Flow Type:	Perennial (Flows year round) Intermittent (Flows <3 months) None	
	Seasonal (Continuous flow ≥ 3 months)	
Direction of Flow:	N	
OHWM Width (ft.): 4	1	
Sinuosity:	☐ Braided ☐ Meandering ☑ Straight ☐ N/A	
Stream Width (ft.): 5	5 Water Surface (At Crossing Location): 3	
Stream Depth (in.):	□ 0 □ 1-3 ▼ 3-6 □ 6-12 □ 12-18 □ 18-24 □ 24-36 □ 36-48 □ 48-60 □ 60+	
OHWM Indicators:		
CLEAR NATURAL	L LINE ON BANK	
SCOUR		
Daniel Halake (ff)		
Bank Height (ft.): (Looking Downstream)	Left: □ 0-2 ✓ 2-4 □ 4-6 □ 6-8 □ 8+	
(Looking Downstream)	['] Right: □ 0-2 🗹 2-4 □ 4-6 □ 6-8 □ 8+	
Bank Slope (%):	Left: 60-	
(Looking Downstream)	Right: 60-	
	Tagni. 00	
Qualitative Attribu	utes	
Water Appearance:		
✓ Clear	☐ Turbid ☐ Sheen on Surface ☐ Floating Algalmats	
Slightly Turbid	☐ Very Turbid ☐ Greenish Color ☐ Obvious Surface Scum	
☐ No Flow	☐ Other:	
Stream Substrate %:		
100% SILT		
10070 0121		
Aquatic Habitats:		
Sand Bar	☐ Gravel Riffles ☐ In-stream Emergent Plants % Cover:	
Gravel Bar	☐ Deep Pools ☐ In-stream Submerged Plants % Cover:	
☐ Mud Bar	☐ Bank Root Systems ☐ Fringing Wetlands¹	
Undercut Banks	Overhanging Trees/Shrubs ✓ None	
¹Characteristics:		
Aquatic Organisms O	Observed:	
NONE		

95 State Road





Tributary Condition: ☐ Natural ✓ Artificial (Man-Made) Manipulated **Channel Condition:** ☐ Channelization/Braiding ☐ Unnatural Straightening Downcutting ☐ Excessive Bank Erosion ☐ Dikes/Berms ✓ N/A **Habitat Characteristics, Aquatic, and Terrestrial Diversity Description:** Stream Quality: High Comments: Excavated ditch conveys drainage from SC-1A-W292K TO SC-1A-W459





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

95 State Road Sagamore Beach, MA 02662



Waterbody Data Form

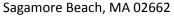
Feature ID: SC-1A-S370

Feature Name:

Associated Wetland ID: SC-1A-W460

ASSOCIATED WETIAND ID: 5C-1A-W46U
✓ Centerline ☐ Re-Route ☐ Access Road ☐ Ancillary Facility ☐ Alternative Route ☐ Other
Centerline ID: Facility Description:
Date: Client/Project Name: Latitude/Longitude:
2014/05/08 Constitution 42.537442 , -74.63928
Team: State/County: Quad Name:
1C NY - Schoharie Charlotteville
Logbook No.: Logbook Page No.: Tract No.:
15 89 ALT-F-NY-SC-008.002
Waterbody Type: ☐ Lake ☐ Pond ☐ Borrow Pit ✓ Stream ☐ Ag. Ditch ☐ Other
Stream Flow: ☐ Fast ☑ Moderate ☐ Slow ☐ Very Slow ☐ None
Flow Type:
☐ Seasonal (Continuous flow ≥ 3 months) ☐ Ephemeral (Flows only in response to rainfall)
Direction of Flow: N NE E SE S SW NW NW No Flow
OHWM Width (ft.): 10
Sinuosity: ☐ Braided ✓ Meandering ☐ Straight ☐ N/A
Stream Width (ft.): 12 Water Surface (At Crossing Location): 9
Stream Depth (in.): □ □ 1-3 ✓ 3-6 □ 6-12 □ 18-24 □ 24-36 □ 36-48 □ 48-60 □ 60+
OHWM Indicators: CLEAR NATURAL LINE ON BANK LITTER AND DEBRIS
SCOUR
Bank Height (ft.):
(Looking Downstream) Right: ✓ 0-2
Bank Slope (%): Left: Ver
(Looking Downstream)
Right: Ver
Qualitative Attributes
Water Appearance:
✓ Clear
☐ Slightly Turbid ☐ Very Turbid ☐ Greenish Color ☐ Obvious Surface Scum
□ No Flow □ Other:
Stream Substrate %:
40% GRAVEL
40% SANDS
20% SILTS
Aquatic Habitats:
☐ Sand Bar ☐ Gravel Riffles ☐ In-stream Emergent Plants % Cover:
☐ Gravel Bar ☑ Deep Pools ☐ In-stream Submerged Plants % Cover:
☐ Mud Bar ☑ Bank Root Systems ☑ Fringing Wetlands¹
✓ Undercut Banks ☐ Overhanging Trees/Shrubs ☐ None
¹Characteristics: PFO
Aquatic Organisms Observed:
INVERTEBRATES

95 State Road





Tributary Condition: Natural Artificial (Man-Made) Manipulated

Channel Condition: Channelization/Braiding Unnatural Straightening Downcutting
Dikes/Berms Excessive Bank Erosion

Habitat Characteristics, Aquatic, and Terrestrial Diversity Description:

Stream Quality: High Moderate Low

Comments:





Photo Name: SC1AS370_041614_2SW.jpg

Note: SC-1A-S370



Photo Name: SC1AS370_041614_1N.jpg



Photo Name: SC1AS370_041614_3W.jpg Note: SC-1A-S370

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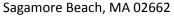
Waterbody Data Form

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: Client/Project Name: Latitude/Longitude:
2014/05/08 Constitution 42.537409 , -74.63954
Team: State/County: Quad Name:
1C NY - Schoharie Charlotteville
Logbook No.: Logbook Page No.: Tract No.:
15 85 ALT-F-NY-SC-008.002
Westerhadu Turas
Waterbody Type: ☐ Lake ☐ Pond ☐ Borrow Pit ✓ Stream ☐ Ag. Ditch ☐ Other
Stream Flow: ☐ Fast ☐ Moderate ☑ Slow ☐ Very Slow ☐ None
Flow Type: ☐ Perennial (Flows year round) ☐ Intermittent (Flows <3 months) ☐ None
Seasonal (Continuous flow ≥ 3 months)Ephemeral (Flows only in response to rainfall)
Direction of Flow: ☐ N ☐ NE ☐ E ☐ SE ✓ S ☐ SW ☐ W ☐ NW ☐ No Flow
OHWM Width (ft.): 3
· · · ·
Sinuosity: ☐ Braided ☑ Meandering ☐ Straight ☐ N/A
Stream Width (ft.): 4 Water Surface (At Crossing Location): 3
Stream Depth (in.): □ 0 □ 1-3 ✓ 3-6 □ 6-12 □ 18-24 □ 24-36 □ 36-48 □ 48-60 □ 60+
OHWM Indicators:
LITTER AND DEBRIS
SCOUR
Bank Height (ft.): Left: ✓ 0-2 ☐ 2-4 ☐ 4-6 ☐ 6-8 ☐ 8+
(Looking Downstream) Right: ✓ 0-2
(Looking Downstream)
Right: 3:1
Qualitative Attributes
Water Appearance:
✓ Clear
☐ Slightly Turbid ☐ Very Turbid ☐ Greenish Color ☐ Obvious Surface Scum
□ No Flow □ Other:
Stream Substrate %:
85% GRAVEL
10% SANDS
5% SILTS
Aquatic Habitats:
☐ Sand Bar ☐ Gravel Riffles ☐ In-stream Emergent Plants % Cover:
☐ Gravel Bar ☐ Deep Pools ☐ In-stream Submerged Plants % Cover:
 ☐ Mud Bar ☐ Bank Root Systems ✓ Fringing Wetlands¹
☐ Undercut Banks ☐ Overhanging Trees/Shrubs ☐ None
¹Characteristics: PFO
Aquatic Organisms Observed:
NONE

95 State Road





Tributary Condition: Natural Artificial (Man-Made) Manipulated

Channel Condition: Channelization/Braiding Unnatural Straightening Downcutting
Dikes/Berms Excessive Bank Erosion

Habitat Characteristics, Aquatic, and Terrestrial Diversity Description:

Stream Quality: High Moderate Low

Comments:





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

95 State Road Sagamore Beach, MA 02662



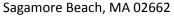
Waterbody Data Form

Feature ID: SC-1A-S370F

Feature Name:

				Associated Wetland ID: SC-1A-W460
✓ Centerline Re	e-Route	ad 🗌 Ancillary Fac	cility Alternative Route	e 🗌 Other
Centerline ID:			Facility Description:	
Date:	Client/Project Name:			Latitude/Longitude:
2014/05/08	Constitution			42.537389 , -74.63919
Team:	State/County:			Quad Name:
1C	NY - Schoharie			Charlotteville
Logbook No.: Log	gbook Page No.:	Tract No.: ALT-F-NY-SC-008.0	02	
Waterbody Type:	Lake Pond Bo	orrow Pit 🗸 Stream	☐ Ag. Ditch ☐ Other	г
Stream Flow:	Fast Moderate	☐ Slow ✓ Very	Slow None	
Flow Type:	Perennial (Flows year	round)	✓ Intermittent (Flows <3	months)
	Seasonal (Continuous f	flow ≥ 3 months)	☐ Ephemeral (Flows only	in response to rainfall)
Direction of Flow:	N NE E	☐ SE 🗸 S	□ SW □ W □ N	IW ☐ No Flow
OHWM Width (ft.): 6				
Sinuosity:	Braided M	leandering S	traight	
Stream Width (ft.): 7		Water Surf	face (At Crossing Location):	5
Stream Depth (in.):	0 • 1-3 3	6-6	-18 🗌 18-24 🔲 24-36	□ 36-48 □ 48-60 □ 60+
OHWM Indicators: SOIL CHARACTER	R CHANGES			
Bank Height (ft.):	Left: ✓ 0-2	2-4	6-8 🗌 8+	
(Looking Downstream)	Right: 🗹 0-2	2-4	6-8 🗌 8+	
Bank Slope (%):	Left: 1:1			
(Looking Downstream)	Right: 1:1			
Qualitative Attribut	tes			
Water Appearance:				
✓ Clear	Turbid	Sheen on Surf	ace	mats
☐ Slightly Turbid	☐ Slightly Turbid ☐ Very Turbid ☐ Greenish Color ☐ Obvious Surface Scum			
☐ No Flow	Other:			
Stream Substrate %:				
80% MUCK				
20% SILTS	5			
Aquatic Habitats:	Gravel Biffles		room Emorgont Diants	% Cover:
☐ Sand Bar ☐ Gravel Bar	☐ Gravel Riffles		ream Emergent Plants	% Cover: % Cover:
☐ Gravei Bar ☐ Mud Bar	☐ Deep Pools		ream Submerged Plants	70 CUVEI.
_	Bank Root System		ging Wetlands¹	
Undercut Banks	Overhanging Tree	s/Shrubs None	=	
	PFO			
Aquatic Organisms Ob FROGS	Jaci Veu.			
FROGS				

95 State Road





Tributary Condition: Natural Artificial (Man-Made) Manipulated

Channel Condition: Channelization/Braiding Unnatural Straightening Downcutting
Dikes/Berms Excessive Bank Erosion

Habitat Characteristics, Aquatic, and Terrestrial Diversity Description:

Stream Quality: High Moderate Low

Comments:





Photo Name: SC1AS370F_041614_3NE.jpg



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



WETLAND AND WATERBODY CROSSINGS SITE SPECIFIC DRAWINGS (REFER TO ATTACHMENT E)