Peter Parent, PE
CHA Consulting Inc.
400 Capital Blvd.
Rocky Hill, CT 01067

October 13, 2022

Re: Soil Scientist Report
94 Plaine Hill Rd, Woodstock, CT 06281

Dear Peter,

Introduction and Description:

On September 23, 2022, the wetland resources were delineated on land located along the western edge of the property, using flag series A-1 to A-19 (refer to enclosed locus maps). The wetland boundary was flagged using the criteria in the most recent edition of the Inland Wetlands and Watercourses Act (IWWA) and US Army Corps of Engineers standards. Hydric soil indicators, vegetation changes, hydrological indicators, and topography were all considered for delineation purposes.

The titles of attached documents are as follows:

- ACOE Delineation Data Sheets
- *USGS of Locus Site*, Goddard Consulting, LLC, 10/5/2022
- *Orthophoto & Soils of Locus Site,* Goddard Consulting, LLC, 10/5/2022
- *FEMA Flood Map,* Goddard Consulting, LLC, 10/5/2022
- *NDDB Rare Species Map*, Goddard Consulting, LLC, 10/5/2022

Inland Wetlands and Watercourses Act & Bylaw:

Inland resource areas were delineated in accordance with relevant federal, state, and local regulations. As stated in the IWWA Sec. 22a-38 and the Town of Woodstock's bylaw, "Wetlands" means land, including submerged land, not regulated pursuant to sections 22a-28 to 22a-35, inclusive, which consists of any soil types designed as poorly drained, very poorly drained, alluvial, and floodplain by the National Cooperative Soils Survey…"

Additionally defined are watercourses, which "…means rivers, streams, brooks, waterways, lakes, ponds, marshes, swamps, bogs, and all other bodies of water, natural or artificial, vernal or intermittent, public or private, which are contained within flow through or border upon the Town or any portion thereof not regulated pursuant to sections 22a-28 through 22a-35, inclusive, of the Connecticut General Statutes. Intermittent watercourses shall be delineated by a defined permanent channel and bank and the occurrence of two or more of the following characteristics: (a) evidence of scour or deposits of recent alluvium or detritus, (b) the presence of standing or flowing water for duration longer than a particular storm incident, and (c) the presence of hydrophytic vegetation."

Mapped NRCS Soils:

Based on the State of Connecticut GIS Soil Survey information (see the Orthophoto & Soils Map), the soils in association with the site location primarily include Woodbridge soils with slopes from 3-15%. Other adjacent soil types within the site include Ridgebury fine sandy loam, in the center of the western edge of

the delineated wetlands. The soils upland of the wetland are considered to be Paxton and Montauk fine sandy loams. Brief descriptions of these types of soils are explained below.

> Woodbridge soils: These are a fine sandy loam observed within ground moraines, hills, and drumlins. The typical profile of these soils is from 0 to 65 inches, transitioning from fine sandy loam to a gravellier fine sandy loam at its lowest horizon. It's depth to water table is from about 18 to 30 inches, and these soils are moderately well drained.
>
> Ridgebury soils: This type of soil is a fine sandy loam often found within ground moraines, hills, drumlins, depressions, and drainageways. The usual profile for this soil type starts with an organic layer from 0-1 inches, followed by sandy and gravelly sandy loams down to around 66 inches. This soil's depth to water table is about 0 to 6 inches, as they are poorly drained hydric soils.
>
> Paxton and Montauk soils: These soils are fine sandy loams found in ground moraines, drumlins, and hills. The typical profile for these soils is a fine sandy loam texture from 0 to 26 inches, then a more gravelly fine sandy loam in the deepest horizon down to 65 inches. The depth to water table is from about 18 to 39 inches, and these soils are well drained.

Based on the inspection of soils associated with the delineated wetland, the soil types researched appear to be consistent with the larger area however wetland soils on site are more consistent with the poorly drained Whitman soil series as compared to the well drained Woodbridge soils mapped.

On-Site Soils:

Consistent with the NRCS based GIS soil survey, upland soils identified on the property were found to be similar in texture, with mostly loamy sand in the upland region and the wetland soils consisting of mostly silty loam. Within the upland region at flag A-5, the first layer is horizon A from depths of 0 to 11 inches, a fine sandy loam with a matrix of 10YR 5/4. Under this is horizon Bw found between 11 to 20 inches of depth, consisting of a fine sandy loam with a soil matrix of 10YR 4/4.

Wetland soils at this location had an A horizon from 0 to 6 inches of fine sandy loam, with a matrix of 10YR 3/2 and the presence of oxidized rhizomes. From 6 to 14 inches is horizon 2Ab consisting of sandy loam and a matrix of 10YR 2/2 with oxidized rhizomes. Below, from 14 to 16 inches is horizon Bg, a sandy loam with a matrix of 10YR 5/3 and 15% mottling at 10YR 5/6. The last tested horizon is Bg2 from depths of 16 to 20 inches, a sandy loam with a matrix of 10YR 5/2 including both 10% 10YR 5/6 mottling and 10% 5YR 4/3 mottling. Refer to the soils map for visual information about the mapped soils.

Soils were also evaluated at interim points along the delineated boundary, in general the upland areas are consistent with Woodbridge soils. The wetlands had characteristics of poorly drained Ridgebury soils throughout most of the delineated wetland and in the lower topographic regions on site. Several areas of pooling water were noted as well as saturated soils such as near flag A-5.

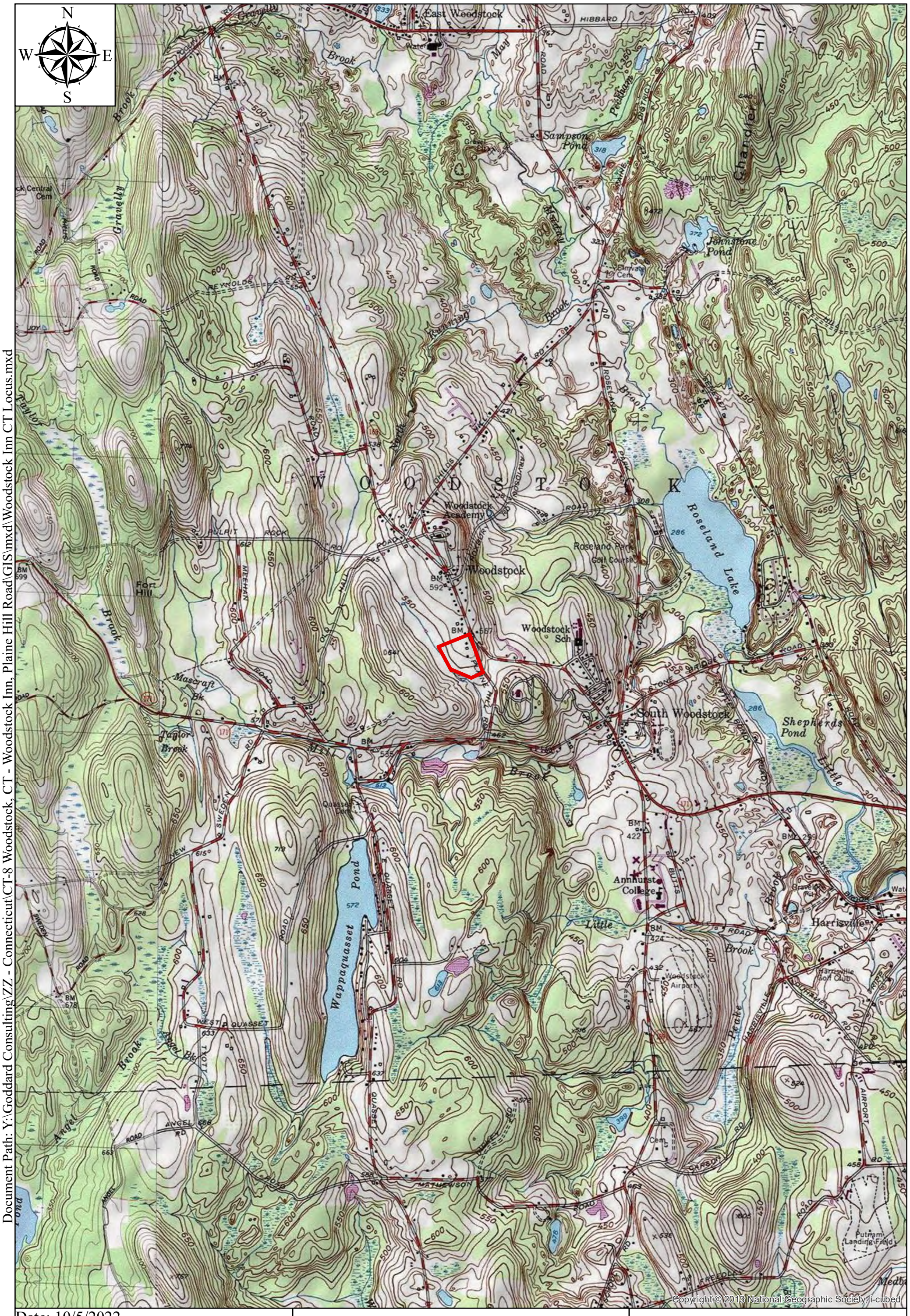
Site Photos

Figure 1. Developed upland areas

Figure 2. View of a line of phragmites and reed canary grass along the delineated wetland.

Figure 3. off-site wetland and watercourse leading to pond.

Figure 4. Forested wetland by Flag W-17



Document Path: Y:\Goddard Consulting\ZZ - Connecticut\CT-8 Woodstock, CT - Woodstock Inn, Plaine Hill Road\GIS\mxd\Woodstock Inn CT Locus.mxd

Date: 10/5/2022

GODDARD CONSULTING LLC
Strategic Wetland Permitting

Soil Scientist Report Locus Map

Woodstock Inn
Woodstock, CT 06281

0 1,000 2,000 4,000 Feet

1 in = 2,000 ft

Job Number:
CT-8

Figure 1

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Date: 10/5/2022

GODDARD CONSULTING LLC
Strategic Wetland Permitting

Soil Scientist Report
Ortho & Soils Map

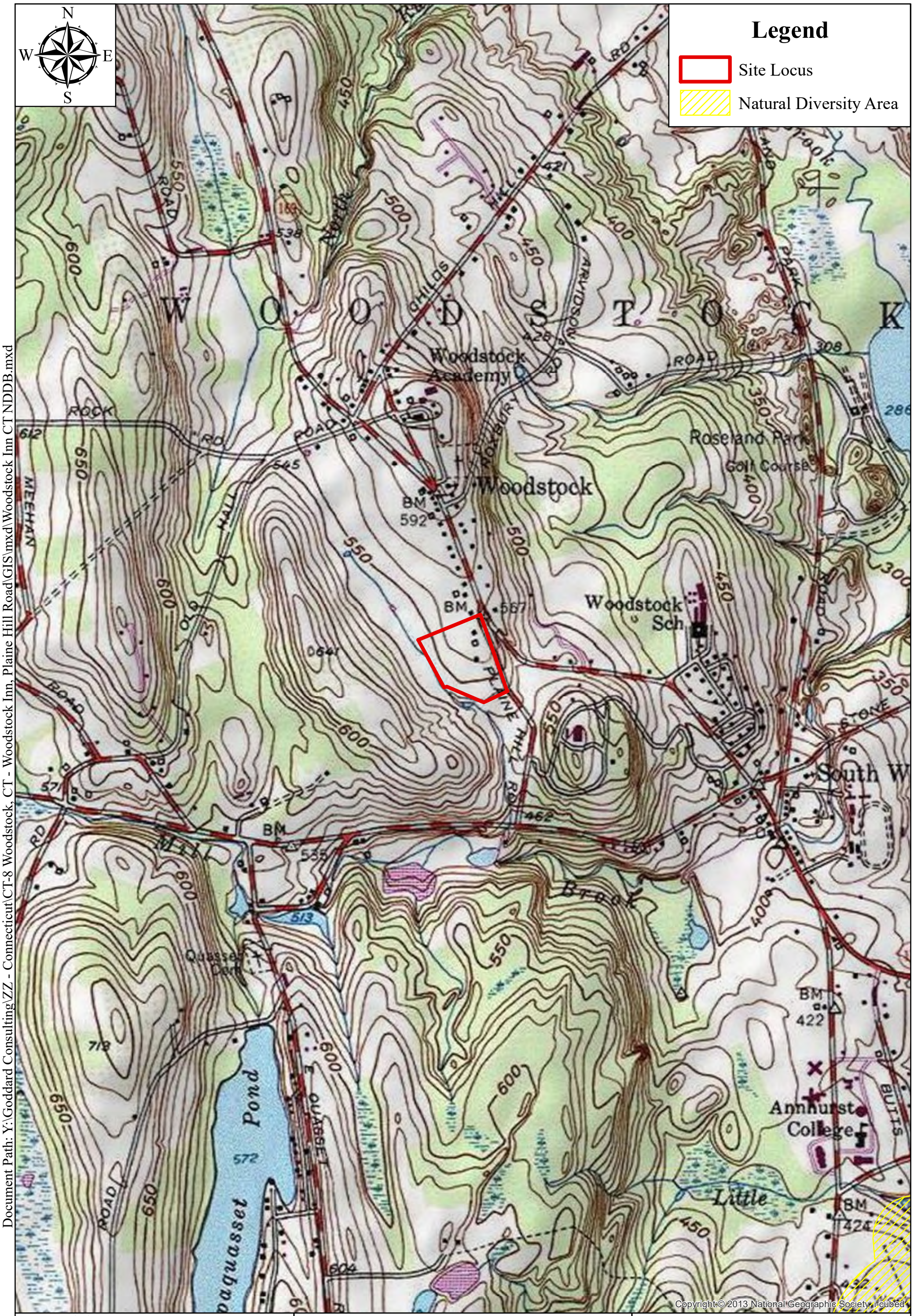
Woodstock Inn
Woodstock, CT 06281

0 100 200 400 Feet

1 in = 200 ft

Job Number:
CT-8

Figure 2



Document Path: Y:\Goddard Consulting\ZZ - Connecticut\CT-8 Woodstock, CT - Woodstock Inn, Plaine Hill Road\GIS\mxd\Woodstock Inn CT NDDB.mxd

Date: 10/5/2022

GODDARD CONSULTING LLC
Strategic Wetland Permitting

Soil Scientist Report
Locus Map

Woodstock Inn
Woodstock, CT 06281

0 500 1,000 2,000 Feet

1 in = 1,000 ft

Job Number:
CT-8

Figure 3

Vegetation

Wetlands on site were flagged with blue flags labeled A-1 to A-19 to denote the boundary of the wetland.

The A-5 flag wetland is dominant in speckled alder shrubs, and ground cover plants such as reed canary grass, sticky-willy, lamp rush, sensitive fern, and purple-stem American-aster. Though found in less significant amounts, other dominant herbaceous plants within the wetland consist of common boneset, purple loosestrife, and phragmites.

Within the adjacent uplands at A-5, reed canary grass and tall goldenrod are the dominant ground cover vegetation. Other species identified within the herbaceous layer are found to be sticky-willy and purple-stem American-aster in lesser amounts.

Across the larger site, the wetland areas were dominated by similar wet meadow vegetation and red maple and dogwoods where the wetland enters the forested area. The wetlands continue off site bordering on a watercourse that feeds a farm pond. Within the forested wetland areas red maple, dogwood, poison ivy, oriental bittersweet are dominant.

FEMA Flood Zones

The National Flood Hazard Layer provided by the Federal Emergency Management Agency (FEMA) does not have available data in this location.

NDDB

The site is not located in an identified NDDB area, the closet such area is located southeast of the site approximately 8,000 feet away.

Findings

Based on these hydric soil indicators, vegetation, hydrological indicators, and topography, the flagged locations on site were found to be the boundary of wetland. It appears that this wetland is connected to a watercourse to the south that runs along the western edge of the property boundary.

Very truly yours,
GODDARD CONSULTING, LLC

Steven Riberdy, MS, PWS, CWB, CE, CERP, PSS
Lead Biologist, Soil Scientist and Manager

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

	Wetland
X	Upland

Project Site: Woodstock Inn City/County: Woodstock Date 9/23/2022

Applicant/Owner: 0 State: CT Sampling Point: A-5

Investigator(s): Steven Riberdy, PWS Section/Township/Range: NA

Landform (hillslope, terrace, etc.): _____ Local Relief (concave, convex, none): _____ Slope (%): <1%

Subregion (LRR or MLRA): NA Latitude: _____ Longitude: _____ Datum: NAD 83

Soil Map Unit Name: Woodbridge NWI Classification: _____

Are climatic/hydrologic conditions on site typical for this time of year? Yes X No (explain) _____

Is vegetation _____ Soil _____ Hydrology _____ Significantly Disturbed? (check if appropriate)

Is vegetation _____ Soil _____ Hydrology _____ Naturally Problematic? (check if appropriate)

Are "Normal Circumstances" present? X Yes _____ No

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

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

Remarks:

HYDROLOGY

Wetland Hydrology Indicators

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

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

Secondary Indicators (Min. 2 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)

Field Observations

Surface Water Present?	_____ Yes	X No	Depth (inches)	_____
Water Table Present?	_____ Yes	X No	Depth (inches)	_____
Saturation Present? (Includes capillary fringe)	_____ Yes	X No	Depth (inches)	_____

Wetland Hydrology Present? _____ Yes X No

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

Remarks:

VEGETATION - *Use scientific names* A-17 4/1/2022

Tree Stratum (Plot Size:)	Absolute % Cover	Dominant Species	Indicator Status
1 --	--	--	--
2 --	--	--	--
3 --	--	--	--
4 --	--	--	--
5 --	--	--	--
6 --	--	--	--
7 --	--	--	--
	0 =	**Total Tree Cover**	

Sapling/Shrub Stratum (Plot Size:)	Absolute % Cover	Dominant Species	Indicator Status
1 --	--	--	--
2 --	--	--	--
3 --	--	--	--
4 --	--	--	--
5 --	--	--	--
6 --	--	--	--
7 --	--	--	--
	0 =	**Total Sapling/Shrub Cover**	

Herb Stratum (Plot Size:)	Absolute % Cover	Dominant Species	Indicator Status
1 *Reed Canary Grass (Phalaris arundinacea)*	60	YES	FACW
2 *Tall Goldenrod (Solidago altissima)*	20	YES	FACU
3 *Sticky-Willy (Galium aparine)*	10	NO	FACU
4 *Purple-Stem American-Aster (Symphyotrichum puni*	3	NO	#N/A
5 --	--	--	--
6 --	--	--	--
7 --	--	--	--
8 --	--	--	--
9 --	--	--	--
10 --	--	--	--
11 --	--	--	--
12 --	--	--	--
	93 =	**Total Herb Cover**	

Woody Vine Stratum (Plot Size:)	Absolute % Cover	Dominant Species	Indicator Status
1 --	--	--	--
2 --	--	--	--
3 --	--	--	--
4 --	--	--	--
	0 =	**Total Woody Vine Cover**	

Dominance Test Worksheet:

No. of Dominant Species That are OBL, FACW, or FAC: 1 (A)

Total No. of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That are OBL, FACW, or FAC: 50.00 (C)

Prevalence Index Worksheet:

	Total % Cover of:		Multiply by:	
OBL species	3	x 1 =	3	
FACW species	60	x 2 =	120	
FAC species	0	x 3 =	0	
FACU species	30	x 4 =	120	
UPL species	0	x 5 =	0	
Column Totals	93 (A)		243	(B)

Prevalence Index = B/A = **2.6**

Hydrophytic Vegetation Indicators:

_____ Rapid Test for Hydrophytic Vegetation

_____ Dominance Test is >50%

X Prevalence Index is $\leq 3.0^1$

_____ Morphological Adaptations[1]

_____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil & wetland hydrology must be present, unless disturbed or problematic

Definitions of Vegetation Strata

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

Sapling/shrub - Woody plants less than 3 in. in DBH and greater than 3.28 ft. (1 m) tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants < 3.28 ft tall

Woody Vines - All woody vines greater than 3.28 ft in height

Hydrophytic Vegetation Present?

X Yes

_____ No

Remarks: (Include photo numbers here or on a separate sheet)

0

SOILS A-5 Upland

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

Horizon	Depth (in)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
A	0-11	10YR 3/2	--	--	--	--	--	FSL	--
Bw	11-20	10YR 4/4	--	--	--	--	--	FSL	--
--	--	0	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators

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

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

Restrictive Layer (if observed)

Type: _____ Depth: _____ inches

Hydric Soil Present?

_____ Yes X No

Remarks:

0

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

X Wetland
Upland

Project Site: Woodstock Inn City/County: Woodstock Date 9/23/2022

Applicant/Owner: 0 State: CT Sampling Point: A-5 -5 ft

Investigator(s): Steven Riberdy, PWS Section/Township/Range: 0

Landform (hillslope, terrace, etc.): Flat Local Relief (concave, convex, none): Flat Slope (%): <1%

Subregion (LRR or MLRA): NA Latitude: 0 Longitude: 0 Datum: NAD 83

Soil Map Unit Name: 0 NWI Classification: 0

Are climatic/hydrologic conditions on site typical for this time of year? Yes X No (explain)

Is vegetation ____ Soil ____ Hydrology ____ Significantly Disturbed? (check if appropriate)

Is vegetation ____ Soil ____ Hydrology ____ Naturally Problematic? (check if appropriate)

Are "Normal Circumstances" present? X Yes ____ No

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

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

Remarks:

HYDROLOGY

Wetland Hydrology Indicators

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

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

Secondary Indicators (Min. 2 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)

Field Observations

Surface Water Present? ____ Yes ____ No Depth (inches) ____

Water Table Present? X Yes ____ No Depth (inches) 0

Saturation Present? X Yes ____ No Depth (inches) 12"
(Includes capillary fringe)

Wetland Hydrology Present? X Yes ____ No

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

Remarks:

VEGETATION - *Use scientific names* TP-B 10/1/2018

Tree Stratum (Plot Size:)	Absolute % Cover	Dominant Species	Indicator Status
1 --	--	--	--
2 --	--	--	--
3 --	--	--	--
4 --	--	--	--
5 --	--	--	--
6 --	--	--	--
7 --	--	--	--
	0 =	**Total Tree Cover**	

Sapling/Shrub Stratum (Plot Size:)	Absolute % Cover	Dominant Species	Indicator Status
1 *Speckled Alder (Alnus incana)*	10	YES	FACW
2 --	--	--	--
3 --	--	--	--
4 --	--	--	--
5 --	--	--	--
6 --	--	--	--
7 --	--	--	--
	10 =	**Total Sapling/Shrub Cover**	

Herb Stratum (Plot Size:)	Absolute % Cover	Dominant Species	Indicator Status
1 *Sticky-Willy (Galium aparine)*	10	YES	FACU
2 *Lamp Rush (Juncus effusus)*	10	YES	OBL
3 *Sensitive Fern (Onoclea sensibilis)*	10	YES	FACW
4 *Common Boneset (Eupatorium perfoliatum)*	3	YES	FACW
5 *Purple Loosestrife (Lythrum salicaria)*	3	YES	OBL
6 *Purple-Stem American-Aster (Symphyotrichum puni*	10	YES	OBL
7 *Prairie Wedgescale (Sphenopholis obtusata)*	3	YES	FAC
8 *Common Reed (Phragmites australis)*	3	YES	FACW
9 *Reed Canary Grass (Phalaris arundinacea)*	50	YES	FACW
10 --	--	--	--
11 --	--	--	--
12 --	--	--	--
	102 =	**Total Herb Cover**	

Woody Vine Stratum (Plot Size: 30')	Absolute % Cover	Dominant Species	Indicator Status
1 --	--	--	--
2 --	--	--	--
3 --	--	--	--
4 --	--	--	--
	0 =	**Total Woody Vine Cover**	

Dominance Test Worksheet:

No. of Dominant Species That are OBL, FACW, or FAC: 9 (A)

Total No. of Dominant Species Across All Strata: 10 (B)

Percent of Dominant Species That are OBL, FACW, or FAC: 90.00 (C)

Prevalence Index Worksheet:

	Total % Cover of:		Multiply by:	
OBL species	23	x 1 =	23	
FACW species	76	x 2 =	152	
FAC species	3	x 3 =	9	
FACU species	10	x 4 =	40	
UPL species	0	x 5 =	0	
Column Totals	112 (A)		224	(B)

Prevalence Index = B/A = **2.0**

Hydrophytic Vegetation Indicators:

_____ Rapid Test for Hydrophytic Vegetation

X Dominance Test is >50%

X Prevalence Index is $\leq 3.0^1$

_____ Morphological Adaptations[1]

_____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil & wetland hydrology must be present, unless disturbed or problematic

Definitions of Vegetation Strata

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

Sapling/shrub - Woody plants less than 3 in. in DBH and greater than 3.28 ft. (1 m) tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants < 3.28 ft tall

Woody Vines - All woody vines greater than 3.28 ft in height

Hydrophytic Vegetation Present?

X Yes

_____ No

Remarks: (Include photo numbers here or on a separate sheet)

0

SOILS A-5 Wetland

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

Horizon	Depth (in)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
A	0-6	10YR 3/2	--	--	--	--	--	FSL	Oxidized Rhizomes
2Ab	6-14	10YR 2/2	--	--	--	--	--	SL	Oxidized Rhizomes
Bg	14-16	10YR 5/3	--	--	15	--	--	SL	--
Bg2	16-20	10YR 5/2	--	--	10	--	--	SL	& 10% 5YR 4/3
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators

	Histosol (A1)		Polyvalue Below Surface (S8)		2cm Muck (A10) (**LRR K, L, MLRA 149B**)
	Histic Epipedon (A2)		**(LRR R, MLRA 149 B)**		Coast Prairie Redox (A16) (**LRR K, L, R**)
	Black Histic (A3)		Thin Dark Surface (S9)		5cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
	Hydrogen Sulfide (A4)		**(LRR R, MLRA 149B**)		Dark Surface (S7) (**LRR K, L**)
	Stratified Layers (A5)		LOAMY Mucky Mineral (F1)		Polyvalue Below Surface (S8) (**LRR K, L**)
	Depleted Below Dark Surface (A11)		(**LRR K, L**)		Thin Dark Surface (S0) (**LRR K, L**)
	Thick Dark Surface(A12)		Loamy Gleyed Matrix (F2)		Iron-Manganese Masses (F12) (**LRR K, L, R**)
	Sandy Mucky Mineral (S1)		Depleted Matrix (F3)		Piedmont Floodplain Soils (F19) (**MLRA 149B**)
	Sandy Gleyed Matrix (S4)		Redox Dark Surface (F6)		Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
	Sandy Redox (S5)		Depleted Dark Surface (F7)		Red Parent Material (**TF2**)
	Stripped Matrix (S6)		Redox Depressions (F8)		Very Shallow Dark Surface (**TF12**)
	Dark Surface (S7) (**LRR R, MLRA 149B**)				Other (Explain in Remarks)

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

Restrictive Layer (if observed)

Type: _____ Depth: _____ inches

Hydric Soil Present?

X Yes _____ No

Remarks:

0