Wetland and Stream Delineation Report

Addendum

Heritage Wind Project

Town of Barre
Orleans County, New York

Prepared by:

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1.0 INTRODUCTION

In February 2020, Environmental Design & Research, Landscape Architecture, Engineering, & Environmental Services, D.P.C. (EDR) prepared a Wetland Delineation Report for the proposed Heritage Wind Project (the Facility) in Orleans County, New York. The report was submitted to the New York State Department of Public Service (DPS) as a part of Exhibit 22 of the Application for a Certificate of Environmental Compatibility and Public Need, in accordance with Article 10 of the Public Service Law (Article 10 Application) on March 13, 2020. The report addressed potentially jurisdictional wetlands that were formally delineated within 500 feet of areas to be potentially disturbed by construction of the Facility.

This report addendum addresses proposed updates to the design of the Facility – namely the relocation of the laydown yard (see Figure 1)[1]. Information provided herein is meant to serve as an addendum to the previously submitted February 2020 Wetland Delineation Report.

EDR completed a desktop review of National Wetland Inventory (NWI) and New York State Department of Environmental Conservation (NYSDEC) Freshwater Wetlands mapping, and previously field delineated wetlands within 100 feet of the proposed laydown yard (100-foot Study Area) in July 2020 using the methodology described in Section 4.1 of the February 2020 Wetland Delineation Report[2].

2.0 DESKTOP REVIEW

Based on the desktop analysis, NWI mapping indicated that there is one freshwater forested/shrub wetland within the 100-foot Study Area and which also extends beyond the Study Area buffer, totaling approximately 1.5 acres (Figure 2). NYSDEC Freshwater Wetlands mapping indicated that there are no State-regulated wetlands, and no NYSDEC-mapped streams or wetlands within the 100-foot Study Area. The nearest NYSDEC-mapped wetland (Wetland AL-3) is located approximately 400 feet west of the laydown yard.

[1] Additional changes to the Facility layout include the removal of an alternate collection line and access road. These changes did not result in the need for additional wetland delineations and, as such, are not discussed in this addendum.
[2] Since the filing of the Article 10 Application, the New York State Board on Electric Generation Siting and the Environment (Siting Board) issued a Memorandum of Resolution that reduced the required area for wetlands mapping from within 500 feet of disturbed areas to 100 feet.

3.0 FIELD DELINEATION

EDR conducted a field delineation on July 14, 2020 using the methodology described in Section 4.1 of the February 2020 Wetland Delineation Report. EDR wetland staff delineated one wetland within the 100-foot Study Area, totaling approximately 1.4 acres in total area (see Table 1 and Figure 3). The wetland extends beyond the boundary of the 100-foot Study Area and is larger than the acreage documented within Table 1.

Table 1. Delineated Wetlands

Wetland Delineation ID[1]	Wetland Type[2]	Wetland Acreage within Study Area	Stream(s) Present	Latitude of Centroid	Longitude of Centroid	Anticipated Federal Jurisdiction	Anticipated State Jurisdiction
001	PFO	1.4	No	43.1561	-78.1984	Yes	Yes

[1] Delineation ID assigned by EDR.
[2] Wetland type is based upon the Cowardin et al., (1979) classification system: PFO = Palustrine Forested.

According to field observations, Wetland 001 is a palustrine forested (PFO) wetland dominated by green ash (*Fraxinus pennsylvanica*), red maple (*Acer rubrum*), and elm (*Ulmus sp.*). Shrub vegetation included saplings of the above-mentioned species and grey dogwood (*Cornus racemose*). Herbaceous species included moneywort (*Lysimachia nummularia*) and sweet flag (*Acorus calamus*). Evidence of wetland hydrology observed in the wetland at the time of delineation included oxidized rhizospheres, and hydric soil indicators included redox dark surface (F6) and depleted matrix (F3). Within the 100-foot Study Area, the wetland was approximately 1.4 acres in size. However, the wetland extends beyond the borders of the 100-foot Study Area and may be hydrologically connected to NYSDEC-mapped wetland AL-3.

Based on the wetland functions and values assessment description and using the methodology detailed in the February 2020 Wetland Delineation Report, Wetland 001 was determined to have the following values: groundwater recharge/discharge, nutrient removal/retention/transformation, wildlife habitat, and provides floodflow alteration.

4.0 CONCLUSIONS

EDR's analysis suggests that the Wetland 001 within the Study Area is likely to be considered jurisdictional by the USACE under Section 404 of the Clean Water Act due to hydrological connections with Waters of the U.S. (WOUS). The wetland may also fall under State jurisdiction based on its close proximity and/or hydrologic connection to NYSDEC-mapped wetland, AL-3. Final determinations of jurisdictional wetlands will be made through consultation with the USACE and NYSDEC.

5.0 REFERENCES

Cowardin, L.M., V. Carter, F.C. Goblet and E.T. LaRoae. 1979. *Classification of Wetlands and Deepwater Habitats of the United States*. U.S. Fish and Wildlife Service, OBS-79/31, Washington, D.C. Available at: https://www.fws.gov/wetlands/Documents/Classification-of-Wetlands-and-Deepwater-Habitats-of-the-United-States.pdf (Accessed November 2019).

Appendix A

Figures

Heritage Wind Project

Town of Barre, Orleans County, New York

Figure 1: Layout Comparison

Application Supplement Layout

- Access Road
- Laydown Yard
- Facility Site

Application Layout

- Access Road
- Collection Line
- Laydown Yard
- Facility Site

Components Not Affected by the Application Supplement

- Wind Turbine
- Permanent Met Tower
- Collection Line
- O&M Facility
- Collection Substation
- POI Substation

Notes: 1. Basemap: ESRI ArcGIS Online "World Topographic Map" map service. **2.** This map was generated in ArcMap on July 23, 2020. **3.** This is a color graphic. Reproduction in grayscale may misrepresent the data.

1:39,815

0 1,000 2,000 4,000 Feet

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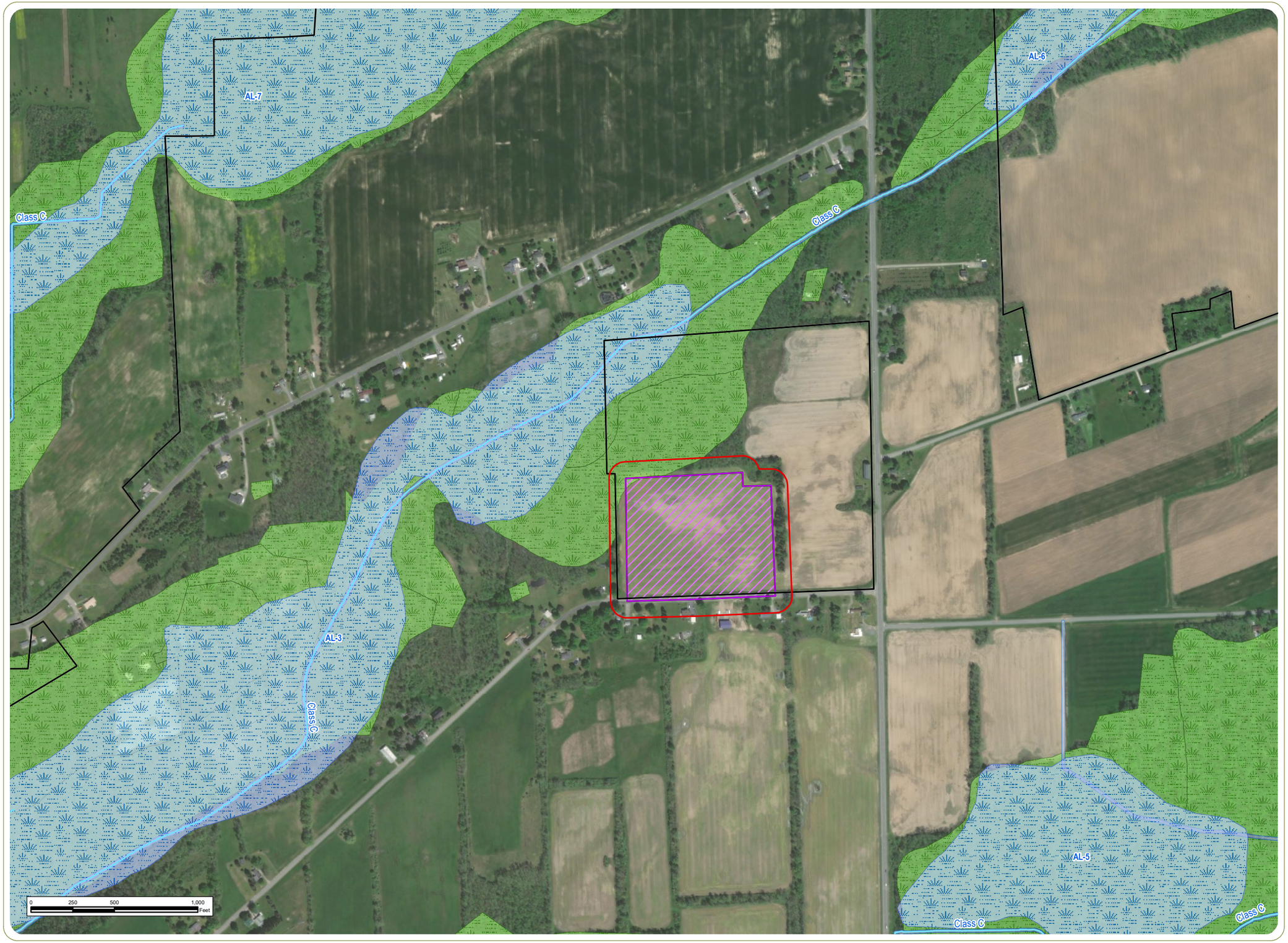
Heritage Wind Project

Town of Barre, Orleans County, New York

Figure 2: Mapped Wetlands and Streams



- Laydown Yard
- Facility Site
- 100-foot Study Area

NYSDEC Stream

- Class A, B, C(TS), or C(T)
- Class C or D
- NYSDEC Mapped Wetland
- NWI Palustrine Wetland
- NWI Riverine Wetland/Water

Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery" map service. **2.** This map was generated in ArcMap on July 23, 2020. **3.** This is a color graphic. Reproduction in grayscale may misrepresent the data. **4.** This figure depicts preliminary turbine locations, which are subject to change.

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Town of Barre, Orleans County, New York

Figure 3: Delineated Wetlands and Streams

- Delineation Flagging
- Data Sampling Point
- Wetland Continues
- Delineated Wetland
- Laydown Yard
- Facility Site
- 100-foot Study Area

Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery" map service. **2.** This map was generated in ArcMap on July 23, 2020. **3.** This is a color graphic. Reproduction in grayscale may misrepresent the data. **4.** This figure depicts preliminary turbine locations, which are subject to change.

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Appendix B

Wetland Data Form

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Heritage Wind City/County: Orleans County Sampling Date: 07/14/2020

Applicant/Owner: Heritage Wind, LLC (Apex Clean Energy) State: NY Sampling Point: 001-1U

Investigator(s): JM Section, Township, Range: Town of Barre

Landform (hillside, terrace, etc.): Flat Local relief (concave, convex, none): None Slope %: 0-5

Subregion (LRR or MLRA): LRR L, MLRA 101 Lat: 43.202509 Long: -78.120064 Datum: WGS84

Soil Map Unit Name: Churchville silt loam, 0 to 2 percent slopes NWI classification:

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area**
Hydric Soil Present?	Yes X	No ____	**within a Wetland?** **Yes** ____ **No** X
Wetland Hydrology Present?	Yes ____	No X	If yes, optional Wetland Site ID: ____

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

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

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

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)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): ____
Water Table Present?	Yes ____	No X	Depth (inches): ____
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): ____

Wetland Hydrology Present? **Yes** ____ **No** X

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

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: 001-1U

Tree Stratum (Plot size: 30-foot radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	=Total Cover		
Sapling/Shrub Stratum (Plot size: 15-foot radius)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	=Total Cover		
Herb Stratum (Plot size: 5-foot radius)			
1. *Glycine max*	60	Yes	UPL
2. *Cyperus esculentus*	10	No	FACW
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	70 =Total Cover		
Woody Vine Stratum (Plot size: 30-foot radius)			
1.			
2.			
3.			
4.			
	=Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	10	x 2 =	20
FAC species	0	x 3 =	0
FACU species	0	x 4 =	0
UPL species	60	x 5 =	300
Column Totals:	70 (A)		320 (B)

Prevalence Index = B/A = 4.57

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

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

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. DBH and greater than or equal to 3.28 ft (1 m) tall.

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

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

Hydrophytic Vegetation Present? **Yes** ___ **No** X

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

SOIL

Sampling Point 001-1U

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-5	10YR 3/2	95					Loamy/Clayey	
5-18	5YR 5/2	70	7.5YR 5/6	30	C	M	Loamy/Clayey	Prominent redox concentrations

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ 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)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L)**
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- X Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)

Indicators for Problematic Hydric Soils[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**)
- ___ 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 (F22)
- ___ 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:

This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils, Version 7.0, 2015 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Heritage Wind City/County: Orleans County Sampling Date: 07/14/2020

Applicant/Owner: Heritage Wind, LLC (Apex Clean Energy) State: NY Sampling Point: 001-1W

Investigator(s): JM Section, Township, Range: Town of Barre

Landform (hillside, terrace, etc.): Flat Local relief (concave, convex, none): None Slope %: 0-5

Subregion (LRR or MLRA): LRR L, MLRA 101 Lat: 43.202509 Long: -78.120064 Datum: WGS84

Soil Map Unit Name: Churchville silt loam, 0 to 2 percent slopes NWI classification: PSS

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes X	No ____	**Is the Sampled Area**
Hydric Soil Present?	Yes X	No ____	**within a Wetland?** **Yes** X **No** ____
Wetland Hydrology Present?	Yes X	No ____	If yes, optional Wetland Site ID: 001-1W PFO

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
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- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): ____
Water Table Present?	Yes ____	No X	Depth (inches): ____
Saturation Present? (includes capillary fringe)	Yes ____	No X	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 of plants.

Sampling Point: 001-1W

Tree Stratum (Plot size: 30-foot radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Fraxinus pennsylvanica*	30	Yes	FACW
2. *Acer rubrum*	20	Yes	FAC
3. *Ulmus americana*	20	Yes	FACW
4.			
5.			
6.			
7.			
	70	=Total Cover	
Sapling/Shrub Stratum (Plot size: 15-foot radius)			
1. *Cornus racemosa*	20	Yes	FAC
2.			
3.			
4.			
5.			
6.			
7.			
	20	=Total Cover	
Herb Stratum (Plot size: 5-foot radius)			
1. *Lysimachia nummularia*	60	Yes	FACW
2. *Acorus americanus*	20	Yes	OBL
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	80	=Total Cover	
Woody Vine Stratum (Plot size: 30-foot radius)			
1. *Vitis riparia*	15	Yes	FAC
2.			
3.			
4.			
	15	=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 7 (A)

Total Number of Dominant Species Across All Strata: 7 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	20	x 1 =	20
FACW species	110	x 2 =	220
FAC species	55	x 3 =	165
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	185 (A)		405 (B)

Prevalence Index = B/A = 2.19

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

X 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

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

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

Hydrophytic Vegetation Present? **Yes** X **No** ___

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

SOIL

Sampling Point 001-1W

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-10	10YR 3/1	95	7.5YR 4/4	5	C	PL	Loamy/Clayey	Prominent redox concentrations
10-18	5YR 5/2	90	7.5YR 5/4	10	C	M	Loamy/Clayey	Distinct redox concentrations

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
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- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L**)
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- X Depleted Matrix (F3)
- X Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ? Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)

Indicators for Problematic Hydric Soils[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**)
- ___ 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 (F22)
- ___ 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:

This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils, Version 7.0, 2015 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)

Appendix C

Wetland Photographs

Photo 1

Wetland 001

Photo 2

Wetland 001